PyTan Documentation

Release 1.0.0

Jim Olsen

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1.1 Description

This is a set of packages and scripts that provides a simple way for programmatically interfacing with Tanium's SOAP API. It is comprised of four parts:

- Tanium Server SOAP API: The SOAP server embedded into the Tanium server itself, listens on port 444 but is also available via port 443.

- TaniumPy Python Package (`taniumpy`): A python package comprised of a set of python objects automatically generated from the WSDL file that describes the Tanium SOAP API. These python objects handle the serialization and deserialization of XML to and from the Tanium Server SOAP API. Located in `lib/taniumpy`

- PyTan Python Package: (`pytan`): A python package that provides a set of methods to make interfacing with TaniumPy more human friendly. Located in `lib/pytan`

- PyTan Command Line Scripts: A set of command line scripts that utilize the PyTan Package (`pytan`) to make it easy for non-programmers to create/get/delete/ask/deploy objects via the Tanium Server SOAP API.

1.2 Why it was created

This was created to solve for the following needs:

- Create a python package (`pytan`) to provide a set of methods for making it easier to programmatically interface with Tanium via the SOAP API.

- Create a set of command line scripts utilizing the `pytan` package that handle the argument parsing, thereby providing non-programmers with command line access to the functionality therein.

- Provide a way to ask questions and get results via Python and/or the command line.

- Provide a way to deploy actions and get results via Python and/or the command line.

- Provide a way to export/import objects in JSON via Python and/or the command line.

1.3 Requirements

- Python 2.7

- A working install of Tanium Server 6.2

1.4 Installation

Windows Installation

- Download Python 2.7 from https://www.python.org/downloads/windows/
- Install Python 2.7 – if you accept the default paths it will install to `C:\Python27`
- Copy PyTan from github to your local machine somewhere
- If you did not accept the default install path for Python 2.7, edit `pytan\winbin\CONFIG.bat` to change the *PYTHON* variable to point to the full path of *python.exe*

OS X Installation

- OS X 10.8 and higher come with Python 2.7 out of the box
- Copy PyTan from github to your local machine somewhere

Linux Installation

- Ensure Python 2.7 is installed
- Ensure the first *python* binary in your path points to your Python 2.7 installation
- Copy PyTan from github to your local machine somewhere

1.5 Usage

- For command line usage, refer to Command Line Help Index
- For API Examples, refer to the *pytan API examples*
- For in depth API Documentation, refer to the *pytan package*, especially the *pytan.handler module*

1.6 pytan package

A python package that makes using (`taniumpy`) more human friendly.

pytan.**__version__** = '1.0.0'
>   Version of PyTan

pytan.**__copyright__** = 'Copyright 2014 Tanium'
>   Copyright for PyTan

pytan.**__license__** = 'MIT'
>   License for PyTan

pytan.**__author__** = 'Jim Olsen <jim.olsen@tanium.com>'
>   Author of Pytan

1.6.1 pytan API examples

Pytan api basic handler example

Here is an example for how to instantiate a `pytan.Handler` object.

The username, password, host, and maybe port as well need to be provided on a per Tanium server basis.

Example Python Code

```python
# Path to lib directory which contains pytan package
PYTAN_LIB_PATH = '../lib'

# connection info for Tanium Server
USERNAME = "Tanium User"
PASSWORD = "T@n!um"
HOST = "172.16.31.128"
PORT = "444"

# Logging conrols
LOGLEVEL = 2
DEBUGFORMAT = False

import sys, tempfile
sys.path.append(PYTAN_LIB_PATH)

import pytan
handler = pytan.Handler(
    username=USERNAME,
    password=PASSWORD,
    host=HOST,
    port=PORT,
    loglevel=LOGLEVEL,
    debugformat=DEBUGFORMAT,
)

print handler
```

Output from Python Code

```
Handler for Session to 172.16.31.128:444, Authenticated: True, Version: 6.2.314.3258
```

pytan API Valid Question Examples

Ask saved question by name in list

Ask a saved question by referencing the name of a saved question in a list of strings.

Example Python Code

```python
# Path to lib directory which contains pytan package
PYTAN_LIB_PATH = '../lib'

# connection info for Tanium Server
USERNAME = "Tanium User"
PASSWORD = "T@n!um"
HOST = "172.16.31.128"
PORT = "444"

# Logging conrols
```

```
11  LOGLEVEL = 2
12  DEBUGFORMAT = False
13
14  import sys, tempfile
15  sys.path.append(PYTAN_LIB_PATH)
16
17  import pytan
18  handler = pytan.Handler(
19      username=USERNAME,
20      password=PASSWORD,
21      host=HOST,
22      port=PORT,
23      loglevel=LOGLEVEL,
24      debugformat=DEBUGFORMAT,
25  )
26
27  print handler
28
29  # setup the arguments for the handler method
30  kwargs = {}
31  kwargs["qtype"] = u'saved'
32  kwargs["name"] = [u'Installed Applications']
33
34  # call the handler with the ask method, passing in kwargs for arguments
35  response = handler.ask(**kwargs)
36  import pprint, io
37
38  print ""
39  print "Type of response: ", type(response)
40
41  print ""
42  print "Pretty print of response:"
43  print pprint.pformat(response)
44
45  print ""
46  print "Equivalent Question if it were to be asked in the Tanium Console: "
47  print response['question_object'].query_text
48
49  # create an IO stream to store CSV results to
50  out = io.BytesIO()
51
52  # call the write_csv() method to convert response to CSV and store it in out
53  response['question_results'].write_csv(out, response['question_results'])
54
55  print ""
56  print "CSV Results of response: "
57  print out.getvalue()
```

Output from Python Code

```
1  Handler for Session to 172.16.31.128:444, Authenticated: True, Version: 6.2.314.3258
2  2014-12-07 01:02:22,054 INFO     question_progress: Results 149% (Get Installed Applications from al
3
4  Type of response:  <type 'dict'>
5
6  Pretty print of response:
7  {'question_object': <taniumpy.object_types.saved_question.SavedQuestion object at 0x10214fd50>,
```

```
 8     'question_results': <taniumpy.object_types.result_set.ResultSet object at 0x1021691d0>}
 9
10   Equivalent Question if it were to be asked in the Tanium Console:
11   Get Installed Applications from all machines
12
13   CSV Results of response:
14   Count,Name,Silent Uninstall String,Uninstallable,Version
15   2,Google Search,nothing,Not Uninstallable,37.0.2062.120
16   2,MakePDF,nothing,Not Uninstallable,10.0
17   2,Wish,nothing,Not Uninstallable,8.5.9
18   2,Time Machine,nothing,Not Uninstallable,1.3
19   2,AppleGraphicsWarning,nothing,Not Uninstallable,2.3.0
20   2,soagent,nothing,Not Uninstallable,7.0
21   2,SpeechService,nothing,Not Uninstallable,5.2.6
22   2,AinuIM,nothing,Not Uninstallable,1.0
23   2,Pass Viewer,nothing,Not Uninstallable,1.0
24   2,PressAndHold,nothing,Not Uninstallable,1.2
25   2,PluginIM,nothing,Not Uninstallable,15
26   2,UserNotificationCenter,nothing,Not Uninstallable,3.3.0
27   1,Microsoft Visual C++ 2008 Redistributable - x86 9.0.30729.6161,MsiExec.exe /X{9BE518E6-ECC6-35A9-8
28   2,FaceTime,nothing,Not Uninstallable,3.0
29   2,ScreenSaverEngine,nothing,Not Uninstallable,5.0
30   2,LocationMenu,nothing,Not Uninstallable,1.0
31   2,CoRD,nothing,Not Uninstallable,0.5.7
32   2,asannotation2,nothing,Not Uninstallable,1308.22.2900.0
33   2,Slack,nothing,Not Uninstallable,1.0.2
34   1,Microsoft SQL Server 2008 R2 Management Objects,MsiExec.exe /X{83F2B8F4-5CF3-4BE9-9772-9543EAE4AC5
35   2,Dashboard,nothing,Not Uninstallable,1.8
36   2,Proof,nothing,Not Uninstallable,None
37   1,Microsoft SQL Server System CLR Types,MsiExec.exe /X{C3F6F200-6D7B-4879-B9EE-700C0CE1FCDA} /qn /no
38   2,Extract,nothing,Not Uninstallable,None
39   2,Speech Downloader,nothing,Not Uninstallable,5.0.25
40   2,Disk Inventory X,nothing,Not Uninstallable,1.0
41   1,Microsoft SQL Server 2012 (64-bit),"""c:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQ
42   2,Switch Control,nothing,Not Uninstallable,2.0
43   2,Python,nothing,Not Uninstallable,2.6.9
44   2,System Information,nothing,Not Uninstallable,10.10
45   2,Transmission,nothing,Not Uninstallable,2.84
46   2,IDLE,nothing,Not Uninstallable,2.7.8
47   2,CharacterPalette,nothing,Not Uninstallable,2.0.1
48   2,System Events,nothing,Not Uninstallable,1.3.6
49   2,MRTAgent,nothing,Not Uninstallable,1.1
50   2,MiniTerm,nothing,Not Uninstallable,1.9
51   2,My Day,nothing,Not Uninstallable,14.4.6
52   2,Reminders,nothing,Not Uninstallable,3.0
53   2,Wireless Diagnostics,nothing,Not Uninstallable,4.0
54   2,Gmail,nothing,Not Uninstallable,37.0.2062.120
55   2,Digital Color Meter,nothing,Not Uninstallable,5.10
56   2,Dictation,nothing,Not Uninstallable,1.4.55
57   2,Tunnelblick,nothing,Not Uninstallable,3.4.0 (build 4007)
58   2,Memory Clean,nothing,Not Uninstallable,4.7
59   2,Screen Sharing,nothing,Not Uninstallable,1.6
60   2,Keychain Circle Notification,nothing,Not Uninstallable,1.0
61   1,Microsoft Visual C++ 2012 Redistributable (x86) - 11.0.61030,"""C:\ProgramData\Package Cache\{33d1
62   2,ManagedClient,nothing,Not Uninstallable,7.0
63   2,Image Capture,nothing,Not Uninstallable,6.6
64   2,VoiceOver Quickstart,nothing,Not Uninstallable,7.0
65   2,Stickies,nothing,Not Uninstallable,10.0
```

```
66  2,TamilIM,nothing,Not Uninstallable,1.6
67  2,AddressBookManager,nothing,Not Uninstallable,9.0
68  2,NetAuthAgent,nothing,Not Uninstallable,5.0
69  2,Directory Utility,nothing,Not Uninstallable,5.0
70  2,VietnameseIM,nothing,Not Uninstallable,1.4
71  2,Aperture,nothing,Not Uninstallable,3.6
72  2,Automator Runner,nothing,Not Uninstallable,2.5
73  2,Image Capture Extension,nothing,Not Uninstallable,10.0
74  2,EPSON Scanner,nothing,Not Uninstallable,5.7.6
75  2,TextMate,nothing,Not Uninstallable,2.0-beta.6.4
76  2,OBEXAgent,nothing,Not Uninstallable,4.3.1
77  2,Microsoft Chart Converter,nothing,Not Uninstallable,14.4.6
78  2,Widget Simulator,nothing,Not Uninstallable,1.0
79  2,Firefox,nothing,Not Uninstallable,33.1.1
80  2,VoiceOver Utility,nothing,Not Uninstallable,7.0
81  2,Skype,nothing,Not Uninstallable,6.19
82  1,Microsoft Visual C++ 2010  x86 Runtime - 10.0.40219,MsiExec.exe /X{5D9ED403-94DE-3BA0-B1D6-71F4BDA
83  2,Office365Service,nothing,Not Uninstallable,14.4.6
84  2,50onPaletteServer,nothing,Not Uninstallable,1.1.0
85  2,Grab,nothing,Not Uninstallable,1.8
86  2,Network Setup Assistant,nothing,Not Uninstallable,10.8.0
87  2,AOSAlertManager,nothing,Not Uninstallable,1.06
88  2,Java Mission Control,nothing,Not Uninstallable,5.4.0
89  2,AppleMobileDeviceHelper,nothing,Not Uninstallable,5.0
90  2,Sublime Text,nothing,Not Uninstallable,Build 3065
91  2,Notes,nothing,Not Uninstallable,3.1
92  2,AOSHeartbeat,nothing,Not Uninstallable,1.06
93  1,Microsoft SQL Server 2012 Setup (English),MsiExec.exe /X{8CB0713F-CFE0-445D-BCB2-538465860E1A} /qn
94  2,Google Chrome,nothing,Not Uninstallable,39.0.2171.71
95  2,universalAccessAuthWarn,nothing,Not Uninstallable,1.0
96  1,Microsoft SQL Server 2012 Native Client ,MsiExec.exe /X{49D665A2-4C2A-476E-9AB8-FCC425F526FC} /qn
97  2,DatabaseProcess,nothing,Not Uninstallable,10600
98  2,DiskImages UI Agent,nothing,Not Uninstallable,10.10
99  2,Spotify,nothing,Not Uninstallable,0.9.14.13.gba5645ad
100 2,Keychain Access,nothing,Not Uninstallable,9.0
101 2,loginwindow,nothing,Not Uninstallable,9.0
102 2,ReportPanic,nothing,Not Uninstallable,10.10
103 2,Install OS X Mavericks,nothing,Not Uninstallable,1.3.44
104 2,Spotlight,nothing,Not Uninstallable,3.0
105 2,Python Launcher,nothing,Not Uninstallable,2.7.8
106 2,Chess,nothing,Not Uninstallable,3.10
107 2,LaterAgent,nothing,Not Uninstallable,1.0
108 2,SpeechRecognitionServer,nothing,Not Uninstallable,5.0.25
109 2,App Store,nothing,Not Uninstallable,2.0
110 2,CoreServicesUIAgent,nothing,Not Uninstallable,134.6
111 2,Build Web Page,nothing,Not Uninstallable,10.0
112 1,Google Chrome,"""C:\Program Files (x86)\Google\Chrome\Application\39.0.2171.71\Installer\setup.exe
113 2,Microsoft Outlook,nothing,Not Uninstallable,14.4.6
114 2,Yap,nothing,Not Uninstallable,None
115 2,Dropbox,nothing,Not Uninstallable,2.10.29
116 2,Microsoft Excel,nothing,Not Uninstallable,14.4.6
117 2,GarageBand,nothing,Not Uninstallable,10.0.3
118 2,Microsoft Upload Center,nothing,Not Uninstallable,14.4.6
119 2,Google Docs,nothing,Not Uninstallable,37.0.2062.120
120 2,Numbers,nothing,Not Uninstallable,3.5
121 2,iTerm,nothing,Not Uninstallable,2.0.0.20141103
122 2,Solver,nothing,Not Uninstallable,1.0
123 2,Certificate Assistant,nothing,Not Uninstallable,5.0
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124   2,Python,nothing,Not Uninstallable,2.7.8
125   2,Photo Booth,nothing,Not Uninstallable,7.0
126   2,Microsoft Clip Gallery,nothing,Not Uninstallable,14.4.6
127   1,Microsoft Help Viewer 1.1,c:\Program Files\Microsoft Help Viewer\v1.0\Microsoft Help Viewer 1.1\in
128   2,SyncServer,nothing,Not Uninstallable,8.1
129   1,Microsoft Visual Studio 2010 Shell (Isolated) - ENU,MsiExec.exe /X{D64B6984-242F-32BC-B008-752806E
130   2,Rename,nothing,Not Uninstallable,None
131   2,League of Legends,nothing,Not Uninstallable,1.0
132   2,Dictionary,nothing,Not Uninstallable,2.2.1
133   2,FileSyncAgent,nothing,Not Uninstallable,8.1
134   1,Microsoft SQL Server 2008 Setup Support Files ,MsiExec.exe /X{B40EE88B-400A-4266-A17B-E3DE64E94431
135   2,PluginProcess,nothing,Not Uninstallable,10600
136   2,RegisterPluginIMApp,nothing,Not Uninstallable,15
137   2,Microsoft Document Connection,nothing,Not Uninstallable,14.4.6
138   2,AutoImporter,nothing,Not Uninstallable,6.6
139   1,Microsoft Report Viewer 2012 Runtime,MsiExec.exe /X{9CCE40CE-A9E6-4916-8729-B008558EEF3F} /qn /nor
140   2,DiskImageMounter,nothing,Not Uninstallable,10.10
141   2,Adobe Photoshop Lightroom 5,nothing,Not Uninstallable,Adobe Photoshop Lightroom 5.6 [974614]
142   2,Instruments,nothing,Not Uninstallable,6.1
143   2,check_afp,nothing,Not Uninstallable,4.0
144   2,Console,nothing,Not Uninstallable,10.10
145   2,Network Diagnostics,nothing,Not Uninstallable,1.3
146   2,Free42-Decimal,nothing,Not Uninstallable,None
147   2,Java Web Start,nothing,Not Uninstallable,15.0.0
148   2,Conflict Resolver,nothing,Not Uninstallable,8.1
149   2,Audio MIDI Setup,nothing,Not Uninstallable,3.0.6
150   2,Bluetooth Setup Assistant,nothing,Not Uninstallable,4.3.1
151   2,UnRarX,nothing,Not Uninstallable,Version 2.2
152   2,X11,nothing,Not Uninstallable,1.0.1
153   2,AddressBookUrlForwarder,nothing,Not Uninstallable,9.0
154   2,Set Info,nothing,Not Uninstallable,None
155   2,Migration Assistant,nothing,Not Uninstallable,5
156   2,Git Gui,nothing,Not Uninstallable,0.19.0.2.g3decb8e
157   2,Safari,nothing,Not Uninstallable,8.0
158   2,Disk Utility,nothing,Not Uninstallable,13
159   2,iBooks,nothing,Not Uninstallable,1.1
160   2,Photosmart 7510 series,nothing,Not Uninstallable,10.0
161   2,VLC,nothing,Not Uninstallable,2.1.5
162   2,Open XML for Excel,nothing,Not Uninstallable,14.4.6
163   2,Terminal,nothing,Not Uninstallable,2.5
164   2,IDSRemoteURLConnectionAgent,nothing,Not Uninstallable,10.0
165   2,AppleScript Utility,nothing,Not Uninstallable,1.1.2
166   2,VMware Fusion,nothing,Not Uninstallable,7.1.0
167   2,identityservicesd,nothing,Not Uninstallable,10.0
168   2,GitHub Conduit,nothing,Not Uninstallable,1.0
169   2,Install in Progress,nothing,Not Uninstallable,3.0
170   2,Summary Service,nothing,Not Uninstallable,2.0
171   2,Google Drive,nothing,Not Uninstallable,1.18
172   2,ARDAgent,nothing,Not Uninstallable,3.8
173   2,ParentalControls,nothing,Not Uninstallable,4.1
174   2,Automator,nothing,Not Uninstallable,2.5
175   2,SCIM,nothing,Not Uninstallable,102
176   2,TextEdit,nothing,Not Uninstallable,1.10
177   2,SystemUIServer,nothing,Not Uninstallable,1.7
178   2,SocialPushAgent,nothing,Not Uninstallable,25
179   2,Family,nothing,Not Uninstallable,1.0
180   2,GlobalProtect,nothing,Not Uninstallable,2.1.0-50
181   2,SourceTree,nothing,Not Uninstallable,2.0.2
```

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182    2,ABAssistantService,nothing,Not Uninstallable,9.0
183    2,AskPermissionUI,nothing,Not Uninstallable,1.0
184    2,Microsoft Office Reminders,nothing,Not Uninstallable,14.4.6
185    2,Dock,nothing,Not Uninstallable,1.8
186    2,Python,nothing,Not Uninstallable,2.7.6
187    2,Microsoft Error Reporting,nothing,Not Uninstallable,2.2.9
188    2,iTerm,nothing,Not Uninstallable,None
189    1,Microsoft Visual C++ 2010  x86 Redistributable - 10.0.40219,MsiExec.exe /X{F0C3E5D1-1ADE-321E-8167
190    1,Tanium Server 6.2.314.3258,C:\Program Files\Tanium\Tanium Server\uninst.exe,Not Uninstallable,6.2.
191    2,MassStorageCamera,nothing,Not Uninstallable,10.0
192    1,Python 2.7.8 (64-bit),MsiExec.exe /X{61121B12-88BD-4261-A6EE-AB32610A56DE} /qn /noreboot,Is Uninst
193    2,eaptlstrust,nothing,Not Uninstallable,13.0
194    2,Mail,nothing,Not Uninstallable,8.1
195    2,PTPCamera,nothing,Not Uninstallable,10.0
196    1,Visual Studio 2010 Prerequisites - English,MsiExec.exe /X{662014D2-0450-37ED-ABAE-157C88127BEB} /q
197    2,Expansion Slot Utility,nothing,Not Uninstallable,1.5.1
198    2,Wish,nothing,Not Uninstallable,8.4.19
199    2,quicklookd32,nothing,Not Uninstallable,5.0
200    2,VoiceOver,nothing,Not Uninstallable,7.0
201    2,Application Loader,nothing,Not Uninstallable,3.0
202    2,Microsoft PowerPoint,nothing,Not Uninstallable,14.4.6
203    2,CIMFindInputCodeTool,nothing,Not Uninstallable,102
204    2,rcd,nothing,Not Uninstallable,327.5
205    2,AirScanScanner,nothing,Not Uninstallable,10.0
206    1,Microsoft Visual C++ 2012 Redistributable (x64) - 11.0.61030,"""C:\ProgramData\Package Cache\{ca67
207    2,Xcode,nothing,Not Uninstallable,6.1.1
208    2,WebKitPluginHost,nothing,Not Uninstallable,10600
209    2,iCloud Photos,nothing,Not Uninstallable,2.7
210    2,Microsoft Graph,nothing,Not Uninstallable,14.4.6
211    2,Calculator,nothing,Not Uninstallable,10.8
212    2,Notification Center,nothing,Not Uninstallable,1.0
213    2,Getty Images Stream,nothing,Not Uninstallable,1.0.0
214    2,FontRegistryUIAgent,nothing,Not Uninstallable,81.0
215    2,NetworkProcess,nothing,Not Uninstallable,10600
216    2,Boot Camp Assistant,nothing,Not Uninstallable,5.1.2
217    2,Install Command Line Developer Tools,nothing,Not Uninstallable,1.0
218    2,Display Calibrator,nothing,Not Uninstallable,4.10.0
219    2,Feedback Assistant,nothing,Not Uninstallable,4.1.1
220    2,System Preferences,nothing,Not Uninstallable,14.0
221    2,ScriptMonitor,nothing,Not Uninstallable,1.0
222    2,AddressBookSourceSync,nothing,Not Uninstallable,9.0
223    2,Keynote,nothing,Not Uninstallable,6.5
224    2,Jar Launcher,nothing,Not Uninstallable,15.0.0
225    2,Captive Network Assistant,nothing,Not Uninstallable,3.0
226    2,Type5Camera,nothing,Not Uninstallable,10.0
227    2,Language Chooser,nothing,Not Uninstallable,1.0
228    2,InkServer,nothing,Not Uninstallable,10.9
229    2,System Image Utility,nothing,Not Uninstallable,10.10
230    2,ZoomWindow,nothing,Not Uninstallable,2.0
231    2,Cyberduck,nothing,Not Uninstallable,4.5.2
232    2,Bluetooth File Exchange,nothing,Not Uninstallable,4.3.1
233    2,Quicksilver,nothing,Not Uninstallable,1.2.1
234    2,iPhoto,nothing,Not Uninstallable,9.6
235    2,Microsoft Remote Desktop,nothing,Not Uninstallable,8.0.25189
236    2,CoreLocationAgent,nothing,Not Uninstallable,1486.12
237    2,KeyboardViewer,nothing,Not Uninstallable,3.2
238    2,TrackpadIM,nothing,Not Uninstallable,1.5
239    2,Mission Control,nothing,Not Uninstallable,1.2
```

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240    2,EscrowSecurityAlert,nothing,Not Uninstallable,1.0
241    2,Adobe Flash Player Install Manager,nothing,Not Uninstallable,15.0.0.239
242    2,Recursive File Processing Droplet,nothing,Not Uninstallable,1.0
243    2,Launchpad,nothing,Not Uninstallable,1.0
244    2,Folder Actions Dispatcher,nothing,Not Uninstallable,1.0.4
245    2,Type8Camera,nothing,Not Uninstallable,10.0
246    2,DVD Player,nothing,Not Uninstallable,5.7
247    2,AirPort Base Station Agent,nothing,Not Uninstallable,2.2.1
248    2,Microsoft Alerts Daemon,nothing,Not Uninstallable,14.4.6
249    1,Microsoft SQL Server 2012 Transact-SQL ScriptDom ,MsiExec.exe /X{0E8670B8-3965-4930-ADA6-570348B67
250    2,Canon IJScanner2,nothing,Not Uninstallable,3.1.0
251    2,SpeechSynthesisServer,nothing,Not Uninstallable,5.2.6
252    2,Cisco WebEx Start,nothing,Not Uninstallable,0.4.6
253    2,Equation Editor,nothing,Not Uninstallable,14.2.0
254    2,Accessibility Inspector,nothing,Not Uninstallable,4.1
255    2,Grapher,nothing,Not Uninstallable,2.5
256    2,RAID Utility,nothing,Not Uninstallable,4.0
257    2,HelpViewer,nothing,Not Uninstallable,5.2
258    2,UniversalAccessControl,nothing,Not Uninstallable,7.0
259    2,iTunes,nothing,Not Uninstallable,12.0.1
260    2,FindReaperFiles,nothing,Not Uninstallable,802
261    2,storeuid,nothing,Not Uninstallable,1.0
262    2,AppDownloadLauncher,nothing,Not Uninstallable,1.0
263    1,Microsoft VSS Writer for SQL Server 2012,MsiExec.exe /X{3E0DD83F-BE4C-4478-86A0-AD0D79D1353E} /qn
264    2,imagent,nothing,Not Uninstallable,10.0
265    2,QuickLookUIHelper,nothing,Not Uninstallable,5.0
266    2,Contacts,nothing,Not Uninstallable,9.0
267    2,iMovie,nothing,Not Uninstallable,10.0.6
268    2,Setup Assistant,nothing,Not Uninstallable,10.10
269    2,YouTube,nothing,Not Uninstallable,37.0.2062.120
270    2,Folder Actions Setup,nothing,Not Uninstallable,1.1.6
271    1,Microsoft Visual C++ 2008 Redistributable - x86 9.0.30729.4974,MsiExec.exe /X{B7E38540-E355-3503-A
272    2,Microsoft Language Register,nothing,Not Uninstallable,14.4.6
273    1,SQL Server Browser for SQL Server 2012,MsiExec.exe /X{4B9E6EB0-0EED-4E74-9479-F982C3254F71} /qn /n
274    2,Activity Monitor,nothing,Not Uninstallable,10.10.0
275    2,ImageCaptureService,nothing,Not Uninstallable,6.6
276    2,atmsupload,nothing,Not Uninstallable,1408.13.2909.0
277    2,GitHub,nothing,Not Uninstallable,Medium Hefson
278    2,Network Utility,nothing,Not Uninstallable,1.8
279    2,AirPlayUIAgent,nothing,Not Uninstallable,2.0
280    2,convertpdf,nothing,Not Uninstallable,1.2
281    2,Match,nothing,Not Uninstallable,None
282    1,Tanium Client Deployment Tool,"""C:\Program Files (x86)\Tanium\Tanium Client Deployment Tool\unins
283    2,Font Book,nothing,Not Uninstallable,5.0
284    2,AOSPushRelay,nothing,Not Uninstallable,1.06
285    2,KoreanIM,nothing,Not Uninstallable,6.4
286    1,Adobe Flash Player 15 ActiveX,C:\Windows\SysWOW64\Macromed\Flash\FlashUtil32_15_0_0_239_ActiveX.ex
287    2,SecurityFixer,nothing,Not Uninstallable,10.8
288    2,BluetoothUIServer,nothing,Not Uninstallable,4.3.1
289    2,Free42-Binary,nothing,Not Uninstallable,None
290    1,Microsoft .NET Framework 4 Multi-Targeting Pack,MsiExec.exe /X{CFEF48A8-BFB8-3EAC-8BA5-DE4F8AA267C
291    2,Show Info,nothing,Not Uninstallable,None
292    2,Ticket Viewer,nothing,Not Uninstallable,4.0
293    2,AppleMobileSync,nothing,Not Uninstallable,5.0
294    2,ODSAgent,nothing,Not Uninstallable,1.8
295    1,Microsoft Visual C++ 2010  x64 Redistributable - 10.0.40219,MsiExec.exe /X{1D8E6291-B0D5-35EC-8441
296    2,Droplet with Settable Properties,nothing,Not Uninstallable,1.0
297    2,Remove,nothing,Not Uninstallable,None
```

```
298   2,Cocoa-AppleScript Applet,nothing,Not Uninstallable,1.0
299   2,Image Events,nothing,Not Uninstallable,1.1.6
300   2,PrinterProxy,nothing,Not Uninstallable,10.0
301   2,AirPort Utility,nothing,Not Uninstallable,6.3.4
302   2,Archive Utility,nothing,Not Uninstallable,10.10
303   2,Database Events,nothing,Not Uninstallable,1.0.6
304   2,ChineseTextConverterService,nothing,Not Uninstallable,2.1
305   2,Installer,nothing,Not Uninstallable,6.1.0
306   2,JapaneseIM,nothing,Not Uninstallable,5.0
307   2,Calibration Assistant,nothing,Not Uninstallable,1.0
308   2,Maps,nothing,Not Uninstallable,2.0
309   2,Microsoft Office Setup Assistant,nothing,Not Uninstallable,14.4.1
310   2,PyCharm CE,nothing,Not Uninstallable,3.4.1
311   2,Game Center,nothing,Not Uninstallable,2.0
312   2,Embed,nothing,Not Uninstallable,None
313   2,Spotlight,nothing,Not Uninstallable,1.0
314   2,VirtualScanner,nothing,Not Uninstallable,4.0
315   1,Microsoft Visual C++ 2008 Redistributable - x64 9.0.30729.6161,MsiExec.exe /X{5FCE6D76-F5DC-37AB-B
316   2,FileMerge,nothing,Not Uninstallable,2.8
317   2,Software Update,nothing,Not Uninstallable,6
318   2,Microsoft AutoUpdate,nothing,Not Uninstallable,2.3.6
319   2,UnmountAssistantAgent,nothing,Not Uninstallable,5.0
320   1,Microsoft .NET Framework 4.5.1,C:\Windows\Microsoft.NET\Framework64\v4.0.30319\SetupCache\v4.5.509
321   2,Messages,nothing,Not Uninstallable,8.0
322   2,Microsoft Database Utility,nothing,Not Uninstallable,14.4.6
323   2,TCIM,nothing,Not Uninstallable,102
324   2,iCloudUserNotificationsd,nothing,Not Uninstallable,1.0
325   1,VMware Tools,MsiExec.exe /X{8CF7A691-09D2-4659-8C84-0406A7B58AE7} /qn /noreboot,Is Uninstallable,9
326   2,quicklookd,nothing,Not Uninstallable,5.0
327   2,CalendarFileHandler,nothing,Not Uninstallable,8.0
328   2,Problem Reporter,nothing,Not Uninstallable,10.10
329   2,Recursive Image File Processing Droplet,nothing,Not Uninstallable,1.0
330   2,Google Drive,nothing,Not Uninstallable,37.0.2062.120
331   2,CMFSyncAgent,nothing,Not Uninstallable,10.0
332   2,Microsoft Ship Asserts,nothing,Not Uninstallable,1.1.4
333   1,Microsoft SQL Server 2012 Transact-SQL Compiler Service ,MsiExec.exe /X{BEB0F91E-F2EA-48A1-B938-78
334   2,syncuid,nothing,Not Uninstallable,8.1
335   2,AddressBookSync,nothing,Not Uninstallable,9.0
336   2,Memory Slot Utility,nothing,Not Uninstallable,1.5.1
337   2,AddPrinter,nothing,Not Uninstallable,10.0
338   2,SyncServicesAgent,nothing,Not Uninstallable,14.4.6
339   2,IMServicePlugInAgent,nothing,Not Uninstallable,10.0
340   2,Microsoft Query,nothing,Not Uninstallable,12.0.0
341   2,Script Editor,nothing,Not Uninstallable,2.7
342   2,AppleFileServer,nothing,Not Uninstallable,2.0
343   2,ColorSync Utility,nothing,Not Uninstallable,4.10.0
344   1,Microsoft System CLR Types for SQL Server 2012 (x64),MsiExec.exe /X{F1949145-EB64-4DE7-9D81-E6D279
345   1,Microsoft Visual C++ 2008 Redistributable - x86 9.0.30729.4148,MsiExec.exe /X{1F1C2DFC-2D24-3E06-B
346   2,Finder,nothing,Not Uninstallable,10.10.1
347   1,Tanium Client 6.0.314.1190,C:\Program Files (x86)\Tanium\Tanium Client\uninst.exe,Not Uninstallabl
348   2,MemoryCleanHelper,nothing,Not Uninstallable,1.0
349   2,Microsoft Word,nothing,Not Uninstallable,14.4.6
350   2,Type4Camera,nothing,Not Uninstallable,10.0
351   2,Pages,nothing,Not Uninstallable,5.5.1
352   2,Canon IJScanner4,nothing,Not Uninstallable,3.1.0
353   2,Microsoft Database Daemon,nothing,Not Uninstallable,14.4.6
354   2,WebProcess,nothing,Not Uninstallable,10600
355   2,ScreenReaderUIServer,nothing,Not Uninstallable,7.0
```

```
356    2,PubSubAgent,nothing,Not Uninstallable,1.0.5
357    2,FindMyMacMessenger,nothing,Not Uninstallable,4.1
358    2,Cisco WebEx Meeting Center,nothing,Not Uninstallable,1410.10.2910.1
359    2,File Sync,nothing,Not Uninstallable,8.1
360    2,Preview,nothing,Not Uninstallable,8.0
361    2,Soundflowerbed,nothing,Not Uninstallable,1.0
362    2,Network Recording Player,nothing,Not Uninstallable,2.2.0
363    2,prezi,nothing,Not Uninstallable,r846
364    2,QuickTime Player,nothing,Not Uninstallable,10.4
365    2,KeyboardSetupAssistant,nothing,Not Uninstallable,10.7
366    2,nbagent,nothing,Not Uninstallable,1.0
367    2,Wi-Fi,nothing,Not Uninstallable,1.0
```

Ask saved question by name

Ask a saved question by referencing the name of a saved question in a string.

Example Python Code

```python
1    # Path to lib directory which contains pytan package
2    PYTAN_LIB_PATH = '../lib'
3
4    # connection info for Tanium Server
5    USERNAME = "Tanium User"
6    PASSWORD = "T@n!um"
7    HOST = "172.16.31.128"
8    PORT = "444"
9
10   # Logging conrols
11   LOGLEVEL = 2
12   DEBUGFORMAT = False
13
14   import sys, tempfile
15   sys.path.append(PYTAN_LIB_PATH)
16
17   import pytan
18   handler = pytan.Handler(
19       username=USERNAME,
20       password=PASSWORD,
21       host=HOST,
22       port=PORT,
23       loglevel=LOGLEVEL,
24       debugformat=DEBUGFORMAT,
25   )
26
27   print handler
28
29   # setup the arguments for the handler method
30   kwargs = {}
31   kwargs["qtype"] = u'saved'
32   kwargs["name"] = u'Installed Applications'
33
34   # call the handler with the ask method, passing in kwargs for arguments
35   response = handler.ask(**kwargs)
36   import pprint, io
```

```
37
38   print ""
39   print "Type of response: ", type(response)
40
41   print ""
42   print "Pretty print of response:"
43   print pprint.pformat(response)
44
45   print ""
46   print "Equivalent Question if it were to be asked in the Tanium Console: "
47   print response['question_object'].query_text
48
49   # create an IO stream to store CSV results to
50   out = io.BytesIO()
51
52   # call the write_csv() method to convert response to CSV and store it in out
53   response['question_results'].write_csv(out, response['question_results'])
54
55   print ""
56   print "CSV Results of response: "
57   print out.getvalue()
```

Output from Python Code

```
1    Handler for Session to 172.16.31.128:444, Authenticated: True, Version: 6.2.314.3258
2    2014-12-07 01:02:22,216 INFO     question_progress: Results 149% (Get Installed Applications from al
3
4    Type of response:  <type 'dict'>
5
6    Pretty print of response:
7    {'question_object': <taniumpy.object_types.saved_question.SavedQuestion object at 0x1020222d0>,
8     'question_results': <taniumpy.object_types.result_set.ResultSet object at 0x1022cdf10>}
9
10   Equivalent Question if it were to be asked in the Tanium Console:
11   Get Installed Applications from all machines
12
13   CSV Results of response:
14   Count,Name,Silent Uninstall String,Uninstallable,Version
15   2,Google Search,nothing,Not Uninstallable,37.0.2062.120
16   2,MakePDF,nothing,Not Uninstallable,10.0
17   2,Wish,nothing,Not Uninstallable,8.5.9
18   2,Time Machine,nothing,Not Uninstallable,1.3
19   2,AppleGraphicsWarning,nothing,Not Uninstallable,2.3.0
20   2,soagent,nothing,Not Uninstallable,7.0
21   2,SpeechService,nothing,Not Uninstallable,5.2.6
22   2,AinuIM,nothing,Not Uninstallable,1.0
23   2,Pass Viewer,nothing,Not Uninstallable,1.0
24   2,PressAndHold,nothing,Not Uninstallable,1.2
25   2,PluginIM,nothing,Not Uninstallable,15
26   2,UserNotificationCenter,nothing,Not Uninstallable,3.3.0
27   1,Microsoft Visual C++ 2008 Redistributable - x86 9.0.30729.6161,MsiExec.exe /X{9BE518E6-ECC6-35A9-8
28   2,FaceTime,nothing,Not Uninstallable,3.0
29   2,ScreenSaverEngine,nothing,Not Uninstallable,5.0
30   2,LocationMenu,nothing,Not Uninstallable,1.0
31   2,CoRD,nothing,Not Uninstallable,0.5.7
32   2,asannotation2,nothing,Not Uninstallable,1308.22.2900.0
33   2,Slack,nothing,Not Uninstallable,1.0.2
```

```
34  1,Microsoft SQL Server 2008 R2 Management Objects,MsiExec.exe /X{83F2B8F4-5CF3-4BE9-9772-9543EAE4AC5
35  2,Dashboard,nothing,Not Uninstallable,1.8
36  2,Proof,nothing,Not Uninstallable,None
37  1,Microsoft SQL Server System CLR Types,MsiExec.exe /X{C3F6F200-6D7B-4879-B9EE-700C0CE1FCDA} /qn /no
38  2,Extract,nothing,Not Uninstallable,None
39  2,Speech Downloader,nothing,Not Uninstallable,5.0.25
40  2,Disk Inventory X,nothing,Not Uninstallable,1.0
41  1,Microsoft SQL Server 2012 (64-bit),"""c:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQ
42  2,Switch Control,nothing,Not Uninstallable,2.0
43  2,Python,nothing,Not Uninstallable,2.6.9
44  2,System Information,nothing,Not Uninstallable,10.10
45  2,Transmission,nothing,Not Uninstallable,2.84
46  2,IDLE,nothing,Not Uninstallable,2.7.8
47  2,CharacterPalette,nothing,Not Uninstallable,2.0.1
48  2,System Events,nothing,Not Uninstallable,1.3.6
49  2,MRTAgent,nothing,Not Uninstallable,1.1
50  2,MiniTerm,nothing,Not Uninstallable,1.9
51  2,My Day,nothing,Not Uninstallable,14.4.6
52  2,Reminders,nothing,Not Uninstallable,3.0
53  2,Wireless Diagnostics,nothing,Not Uninstallable,4.0
54  2,Gmail,nothing,Not Uninstallable,37.0.2062.120
55  2,Digital Color Meter,nothing,Not Uninstallable,5.10
56  2,Dictation,nothing,Not Uninstallable,1.4.55
57  2,Tunnelblick,nothing,Not Uninstallable,3.4.0 (build 4007)
58  2,Memory Clean,nothing,Not Uninstallable,4.7
59  2,Screen Sharing,nothing,Not Uninstallable,1.6
60  2,Keychain Circle Notification,nothing,Not Uninstallable,1.0
61  1,Microsoft Visual C++ 2012 Redistributable (x86) - 11.0.61030,"""C:\ProgramData\Package Cache\{33d1
62  2,ManagedClient,nothing,Not Uninstallable,7.0
63  2,Image Capture,nothing,Not Uninstallable,6.6
64  2,VoiceOver Quickstart,nothing,Not Uninstallable,7.0
65  2,Stickies,nothing,Not Uninstallable,10.0
66  2,TamilIM,nothing,Not Uninstallable,1.6
67  2,AddressBookManager,nothing,Not Uninstallable,9.0
68  2,NetAuthAgent,nothing,Not Uninstallable,5.0
69  2,Directory Utility,nothing,Not Uninstallable,5.0
70  2,VietnameseIM,nothing,Not Uninstallable,1.4
71  2,Aperture,nothing,Not Uninstallable,3.6
72  2,Automator Runner,nothing,Not Uninstallable,2.5
73  2,Image Capture Extension,nothing,Not Uninstallable,10.0
74  2,EPSON Scanner,nothing,Not Uninstallable,5.7.6
75  2,TextMate,nothing,Not Uninstallable,2.0-beta.6.4
76  2,OBEXAgent,nothing,Not Uninstallable,4.3.1
77  2,Microsoft Chart Converter,nothing,Not Uninstallable,14.4.6
78  2,Widget Simulator,nothing,Not Uninstallable,1.0
79  2,Firefox,nothing,Not Uninstallable,33.1.1
80  2,VoiceOver Utility,nothing,Not Uninstallable,7.0
81  2,Skype,nothing,Not Uninstallable,6.19
82  1,Microsoft Visual C++ 2010  x86 Runtime - 10.0.40219,MsiExec.exe /X{5D9ED403-94DE-3BA0-B1D6-71F4BDA
83  2,Office365Service,nothing,Not Uninstallable,14.4.6
84  2,50onPaletteServer,nothing,Not Uninstallable,1.1.0
85  2,Grab,nothing,Not Uninstallable,1.8
86  2,Network Setup Assistant,nothing,Not Uninstallable,10.8.0
87  2,AOSAlertManager,nothing,Not Uninstallable,1.06
88  2,Java Mission Control,nothing,Not Uninstallable,5.4.0
89  2,AppleMobileDeviceHelper,nothing,Not Uninstallable,5.0
90  2,Sublime Text,nothing,Not Uninstallable,Build 3065
91  2,Notes,nothing,Not Uninstallable,3.1
```

```
92    2,AOSHeartbeat,nothing,Not Uninstallable,1.06
93    1,Microsoft SQL Server 2012 Setup (English),MsiExec.exe /X{8CB0713F-CFE0-445D-BCB2-538465860E1A} /qn
94    2,Google Chrome,nothing,Not Uninstallable,39.0.2171.71
95    2,universalAccessAuthWarn,nothing,Not Uninstallable,1.0
96    1,Microsoft SQL Server 2012 Native Client ,MsiExec.exe /X{49D665A2-4C2A-476E-9AB8-FCC425F526FC} /qn
97    2,DatabaseProcess,nothing,Not Uninstallable,10600
98    2,DiskImages UI Agent,nothing,Not Uninstallable,10.10
99    2,Spotify,nothing,Not Uninstallable,0.9.14.13.gba5645ad
100   2,Keychain Access,nothing,Not Uninstallable,9.0
101   2,loginwindow,nothing,Not Uninstallable,9.0
102   2,ReportPanic,nothing,Not Uninstallable,10.10
103   2,Install OS X Mavericks,nothing,Not Uninstallable,1.3.44
104   2,Spotlight,nothing,Not Uninstallable,3.0
105   2,Python Launcher,nothing,Not Uninstallable,2.7.8
106   2,Chess,nothing,Not Uninstallable,3.10
107   2,LaterAgent,nothing,Not Uninstallable,1.0
108   2,SpeechRecognitionServer,nothing,Not Uninstallable,5.0.25
109   2,App Store,nothing,Not Uninstallable,2.0
110   2,CoreServicesUIAgent,nothing,Not Uninstallable,134.6
111   2,Build Web Page,nothing,Not Uninstallable,10.0
112   1,Google Chrome,"""C:\Program Files (x86)\Google\Chrome\Application\39.0.2171.71\Installer\setup.exe
113   2,Microsoft Outlook,nothing,Not Uninstallable,14.4.6
114   2,Yap,nothing,Not Uninstallable,None
115   2,Dropbox,nothing,Not Uninstallable,2.10.29
116   2,Microsoft Excel,nothing,Not Uninstallable,14.4.6
117   2,GarageBand,nothing,Not Uninstallable,10.0.3
118   2,Microsoft Upload Center,nothing,Not Uninstallable,14.4.6
119   2,Google Docs,nothing,Not Uninstallable,37.0.2062.120
120   2,Numbers,nothing,Not Uninstallable,3.5
121   2,iTerm,nothing,Not Uninstallable,2.0.0.20141103
122   2,Solver,nothing,Not Uninstallable,1.0
123   2,Certificate Assistant,nothing,Not Uninstallable,5.0
124   2,Python,nothing,Not Uninstallable,2.7.8
125   2,Photo Booth,nothing,Not Uninstallable,7.0
126   2,Microsoft Clip Gallery,nothing,Not Uninstallable,14.4.6
127   1,Microsoft Help Viewer 1.1,c:\Program Files\Microsoft Help Viewer\v1.0\Microsoft Help Viewer 1.1\in
128   2,SyncServer,nothing,Not Uninstallable,8.1
129   1,Microsoft Visual Studio 2010 Shell (Isolated) - ENU,MsiExec.exe /X{D64B6984-242F-32BC-B008-752806E
130   2,Rename,nothing,Not Uninstallable,None
131   2,League of Legends,nothing,Not Uninstallable,1.0
132   2,Dictionary,nothing,Not Uninstallable,2.2.1
133   2,FileSyncAgent,nothing,Not Uninstallable,8.1
134   1,Microsoft SQL Server 2008 Setup Support Files ,MsiExec.exe /X{B40EE88B-400A-4266-A17B-E3DE64E94431
135   2,PluginProcess,nothing,Not Uninstallable,10600
136   2,RegisterPluginIMApp,nothing,Not Uninstallable,15
137   2,Microsoft Document Connection,nothing,Not Uninstallable,14.4.6
138   2,AutoImporter,nothing,Not Uninstallable,6.6
139   1,Microsoft Report Viewer 2012 Runtime,MsiExec.exe /X{9CCE40CE-A9E6-4916-8729-B008558EEF3F} /qn /nor
140   2,DiskImageMounter,nothing,Not Uninstallable,10.10
141   2,Adobe Photoshop Lightroom 5,nothing,Not Uninstallable,Adobe Photoshop Lightroom 5.6 [974614]
142   2,Instruments,nothing,Not Uninstallable,6.1
143   2,check_afp,nothing,Not Uninstallable,4.0
144   2,Console,nothing,Not Uninstallable,10.10
145   2,Network Diagnostics,nothing,Not Uninstallable,1.3
146   2,Free42-Decimal,nothing,Not Uninstallable,None
147   2,Java Web Start,nothing,Not Uninstallable,15.0.0
148   2,Conflict Resolver,nothing,Not Uninstallable,8.1
149   2,Audio MIDI Setup,nothing,Not Uninstallable,3.0.6
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150   2,Bluetooth Setup Assistant,nothing,Not Uninstallable,4.3.1
151   2,UnRarX,nothing,Not Uninstallable,Version 2.2
152   2,X11,nothing,Not Uninstallable,1.0.1
153   2,AddressBookUrlForwarder,nothing,Not Uninstallable,9.0
154   2,Set Info,nothing,Not Uninstallable,None
155   2,Migration Assistant,nothing,Not Uninstallable,5
156   2,Git Gui,nothing,Not Uninstallable,0.19.0.2.g3decb8e
157   2,Safari,nothing,Not Uninstallable,8.0
158   2,Disk Utility,nothing,Not Uninstallable,13
159   2,iBooks,nothing,Not Uninstallable,1.1
160   2,Photosmart 7510 series,nothing,Not Uninstallable,10.0
161   2,VLC,nothing,Not Uninstallable,2.1.5
162   2,Open XML for Excel,nothing,Not Uninstallable,14.4.6
163   2,Terminal,nothing,Not Uninstallable,2.5
164   2,IDSRemoteURLConnectionAgent,nothing,Not Uninstallable,10.0
165   2,AppleScript Utility,nothing,Not Uninstallable,1.1.2
166   2,VMware Fusion,nothing,Not Uninstallable,7.1.0
167   2,identityservicesd,nothing,Not Uninstallable,10.0
168   2,GitHub Conduit,nothing,Not Uninstallable,1.0
169   2,Install in Progress,nothing,Not Uninstallable,3.0
170   2,Summary Service,nothing,Not Uninstallable,2.0
171   2,Google Drive,nothing,Not Uninstallable,1.18
172   2,ARDAgent,nothing,Not Uninstallable,3.8
173   2,ParentalControls,nothing,Not Uninstallable,4.1
174   2,Automator,nothing,Not Uninstallable,2.5
175   2,SCIM,nothing,Not Uninstallable,102
176   2,TextEdit,nothing,Not Uninstallable,1.10
177   2,SystemUIServer,nothing,Not Uninstallable,1.7
178   2,SocialPushAgent,nothing,Not Uninstallable,25
179   2,Family,nothing,Not Uninstallable,1.0
180   2,GlobalProtect,nothing,Not Uninstallable,2.1.0-50
181   2,SourceTree,nothing,Not Uninstallable,2.0.2
182   2,ABAssistantService,nothing,Not Uninstallable,9.0
183   2,AskPermissionUI,nothing,Not Uninstallable,1.0
184   2,Microsoft Office Reminders,nothing,Not Uninstallable,14.4.6
185   2,Dock,nothing,Not Uninstallable,1.8
186   2,Python,nothing,Not Uninstallable,2.7.6
187   2,Microsoft Error Reporting,nothing,Not Uninstallable,2.2.9
188   2,iTerm,nothing,Not Uninstallable,None
189   1,Microsoft Visual C++ 2010  x86 Redistributable - 10.0.40219,MsiExec.exe /X{F0C3E5D1-1ADE-321E-8167
190   1,Tanium Server 6.2.314.3258,C:\Program Files\Tanium\Tanium Server\uninst.exe,Not Uninstallable,6.2.
191   2,MassStorageCamera,nothing,Not Uninstallable,10.0
192   1,Python 2.7.8 (64-bit),MsiExec.exe /X{61121B12-88BD-4261-A6EE-AB32610A56DE} /qn /noreboot,Is Uninst
193   2,eaptlstrust,nothing,Not Uninstallable,13.0
194   2,Mail,nothing,Not Uninstallable,8.1
195   2,PTPCamera,nothing,Not Uninstallable,10.0
196   1,Visual Studio 2010 Prerequisites - English,MsiExec.exe /X{662014D2-0450-37ED-ABAE-157C88127BEB} /q
197   2,Expansion Slot Utility,nothing,Not Uninstallable,1.5.1
198   2,Wish,nothing,Not Uninstallable,8.4.19
199   2,quicklookd32,nothing,Not Uninstallable,5.0
200   2,VoiceOver,nothing,Not Uninstallable,7.0
201   2,Application Loader,nothing,Not Uninstallable,3.0
202   2,Microsoft PowerPoint,nothing,Not Uninstallable,14.4.6
203   2,CIMFindInputCodeTool,nothing,Not Uninstallable,102
204   2,rcd,nothing,Not Uninstallable,327.5
205   2,AirScanScanner,nothing,Not Uninstallable,10.0
206   1,Microsoft Visual C++ 2012 Redistributable (x64) - 11.0.61030,"""C:\ProgramData\Package Cache\{ca67
207   2,Xcode,nothing,Not Uninstallable,6.1.1
```

```
208  2,WebKitPluginHost,nothing,Not Uninstallable,10600
209  2,iCloud Photos,nothing,Not Uninstallable,2.7
210  2,Microsoft Graph,nothing,Not Uninstallable,14.4.6
211  2,Calculator,nothing,Not Uninstallable,10.8
212  2,Notification Center,nothing,Not Uninstallable,1.0
213  2,Getty Images Stream,nothing,Not Uninstallable,1.0.0
214  2,FontRegistryUIAgent,nothing,Not Uninstallable,81.0
215  2,NetworkProcess,nothing,Not Uninstallable,10600
216  2,Boot Camp Assistant,nothing,Not Uninstallable,5.1.2
217  2,Install Command Line Developer Tools,nothing,Not Uninstallable,1.0
218  2,Display Calibrator,nothing,Not Uninstallable,4.10.0
219  2,Feedback Assistant,nothing,Not Uninstallable,4.1.1
220  2,System Preferences,nothing,Not Uninstallable,14.0
221  2,ScriptMonitor,nothing,Not Uninstallable,1.0
222  2,AddressBookSourceSync,nothing,Not Uninstallable,9.0
223  2,Keynote,nothing,Not Uninstallable,6.5
224  2,Jar Launcher,nothing,Not Uninstallable,15.0.0
225  2,Captive Network Assistant,nothing,Not Uninstallable,3.0
226  2,Type5Camera,nothing,Not Uninstallable,10.0
227  2,Language Chooser,nothing,Not Uninstallable,1.0
228  2,InkServer,nothing,Not Uninstallable,10.9
229  2,System Image Utility,nothing,Not Uninstallable,10.10
230  2,ZoomWindow,nothing,Not Uninstallable,2.0
231  2,Cyberduck,nothing,Not Uninstallable,4.5.2
232  2,Bluetooth File Exchange,nothing,Not Uninstallable,4.3.1
233  2,Quicksilver,nothing,Not Uninstallable,1.2.1
234  2,iPhoto,nothing,Not Uninstallable,9.6
235  2,Microsoft Remote Desktop,nothing,Not Uninstallable,8.0.25189
236  2,CoreLocationAgent,nothing,Not Uninstallable,1486.12
237  2,KeyboardViewer,nothing,Not Uninstallable,3.2
238  2,TrackpadIM,nothing,Not Uninstallable,1.5
239  2,Mission Control,nothing,Not Uninstallable,1.2
240  2,EscrowSecurityAlert,nothing,Not Uninstallable,1.0
241  2,Adobe Flash Player Install Manager,nothing,Not Uninstallable,15.0.0.239
242  2,Recursive File Processing Droplet,nothing,Not Uninstallable,1.0
243  2,Launchpad,nothing,Not Uninstallable,1.0
244  2,Folder Actions Dispatcher,nothing,Not Uninstallable,1.0.4
245  2,Type8Camera,nothing,Not Uninstallable,10.0
246  2,DVD Player,nothing,Not Uninstallable,5.7
247  2,AirPort Base Station Agent,nothing,Not Uninstallable,2.2.1
248  2,Microsoft Alerts Daemon,nothing,Not Uninstallable,14.4.6
249  1,Microsoft SQL Server 2012 Transact-SQL ScriptDom ,MsiExec.exe /X{0E8670B8-3965-4930-ADA6-570348B67
250  2,Canon IJScanner2,nothing,Not Uninstallable,3.1.0
251  2,SpeechSynthesisServer,nothing,Not Uninstallable,5.2.6
252  2,Cisco WebEx Start,nothing,Not Uninstallable,0.4.6
253  2,Equation Editor,nothing,Not Uninstallable,14.2.0
254  2,Accessibility Inspector,nothing,Not Uninstallable,4.1
255  2,Grapher,nothing,Not Uninstallable,2.5
256  2,RAID Utility,nothing,Not Uninstallable,4.0
257  2,HelpViewer,nothing,Not Uninstallable,5.2
258  2,UniversalAccessControl,nothing,Not Uninstallable,7.0
259  2,iTunes,nothing,Not Uninstallable,12.0.1
260  2,FindReaperFiles,nothing,Not Uninstallable,802
261  2,storeuid,nothing,Not Uninstallable,1.0
262  2,AppDownloadLauncher,nothing,Not Uninstallable,1.0
263  1,Microsoft VSS Writer for SQL Server 2012,MsiExec.exe /X{3E0DD83F-BE4C-4478-86A0-AD0D79D1353E} /qn
264  2,imagent,nothing,Not Uninstallable,10.0
265  2,QuickLookUIHelper,nothing,Not Uninstallable,5.0
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266  2,Contacts,nothing,Not Uninstallable,9.0
267  2,iMovie,nothing,Not Uninstallable,10.0.6
268  2,Setup Assistant,nothing,Not Uninstallable,10.10
269  2,YouTube,nothing,Not Uninstallable,37.0.2062.120
270  2,Folder Actions Setup,nothing,Not Uninstallable,1.1.6
271  1,Microsoft Visual C++ 2008 Redistributable - x86 9.0.30729.4974,MsiExec.exe /X{B7E38540-E355-3503-A
272  2,Microsoft Language Register,nothing,Not Uninstallable,14.4.6
273  1,SQL Server Browser for SQL Server 2012,MsiExec.exe /X{4B9E6EB0-0EED-4E74-9479-F982C3254F71} /qn /n
274  2,Activity Monitor,nothing,Not Uninstallable,10.10.0
275  2,ImageCaptureService,nothing,Not Uninstallable,6.6
276  2,atmsupload,nothing,Not Uninstallable,1408.13.2909.0
277  2,GitHub,nothing,Not Uninstallable,Medium Hefson
278  2,Network Utility,nothing,Not Uninstallable,1.8
279  2,AirPlayUIAgent,nothing,Not Uninstallable,2.0
280  2,convertpdf,nothing,Not Uninstallable,1.2
281  2,Match,nothing,Not Uninstallable,None
282  1,Tanium Client Deployment Tool,"""C:\Program Files (x86)\Tanium\Tanium Client Deployment Tool\unins
283  2,Font Book,nothing,Not Uninstallable,5.0
284  2,AOSPushRelay,nothing,Not Uninstallable,1.06
285  2,KoreanIM,nothing,Not Uninstallable,6.4
286  1,Adobe Flash Player 15 ActiveX,C:\Windows\SysWOW64\Macromed\Flash\FlashUtil32_15_0_0_239_ActiveX.ex
287  2,SecurityFixer,nothing,Not Uninstallable,10.8
288  2,BluetoothUIServer,nothing,Not Uninstallable,4.3.1
289  2,Free42-Binary,nothing,Not Uninstallable,None
290  1,Microsoft .NET Framework 4 Multi-Targeting Pack,MsiExec.exe /X{CFEF48A8-BFB8-3EAC-8BA5-DE4F8AA267C
291  2,Show Info,nothing,Not Uninstallable,None
292  2,Ticket Viewer,nothing,Not Uninstallable,4.0
293  2,AppleMobileSync,nothing,Not Uninstallable,5.0
294  2,ODSAgent,nothing,Not Uninstallable,1.8
295  1,Microsoft Visual C++ 2010  x64 Redistributable - 10.0.40219,MsiExec.exe /X{1D8E6291-B0D5-35EC-8441
296  2,Droplet with Settable Properties,nothing,Not Uninstallable,1.0
297  2,Remove,nothing,Not Uninstallable,None
298  2,Cocoa-AppleScript Applet,nothing,Not Uninstallable,1.0
299  2,Image Events,nothing,Not Uninstallable,1.1.6
300  2,PrinterProxy,nothing,Not Uninstallable,10.0
301  2,AirPort Utility,nothing,Not Uninstallable,6.3.4
302  2,Archive Utility,nothing,Not Uninstallable,10.10
303  2,Database Events,nothing,Not Uninstallable,1.0.6
304  2,ChineseTextConverterService,nothing,Not Uninstallable,2.1
305  2,Installer,nothing,Not Uninstallable,6.1.0
306  2,JapaneseIM,nothing,Not Uninstallable,5.0
307  2,Calibration Assistant,nothing,Not Uninstallable,1.0
308  2,Maps,nothing,Not Uninstallable,2.0
309  2,Microsoft Office Setup Assistant,nothing,Not Uninstallable,14.4.1
310  2,PyCharm CE,nothing,Not Uninstallable,3.4.1
311  2,Game Center,nothing,Not Uninstallable,2.0
312  2,Embed,nothing,Not Uninstallable,None
313  2,Spotlight,nothing,Not Uninstallable,1.0
314  2,VirtualScanner,nothing,Not Uninstallable,4.0
315  1,Microsoft Visual C++ 2008 Redistributable - x64 9.0.30729.6161,MsiExec.exe /X{5FCE6D76-F5DC-37AB-B
316  2,FileMerge,nothing,Not Uninstallable,2.8
317  2,Software Update,nothing,Not Uninstallable,6
318  2,Microsoft AutoUpdate,nothing,Not Uninstallable,2.3.6
319  2,UnmountAssistantAgent,nothing,Not Uninstallable,5.0
320  1,Microsoft .NET Framework 4.5.1,C:\Windows\Microsoft.NET\Framework64\v4.0.30319\SetupCache\v4.5.509
321  2,Messages,nothing,Not Uninstallable,8.0
322  2,Microsoft Database Utility,nothing,Not Uninstallable,14.4.6
323  2,TCIM,nothing,Not Uninstallable,102
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324   2,iCloudUserNotificationsd,nothing,Not Uninstallable,1.0
325   1,VMware Tools,MsiExec.exe /X{8CF7A691-09D2-4659-8C84-0406A7B58AE7} /qn /noreboot,Is Uninstallable,9
326   2,quicklookd,nothing,Not Uninstallable,5.0
327   2,CalendarFileHandler,nothing,Not Uninstallable,8.0
328   2,Problem Reporter,nothing,Not Uninstallable,10.10
329   2,Recursive Image File Processing Droplet,nothing,Not Uninstallable,1.0
330   2,Google Drive,nothing,Not Uninstallable,37.0.2062.120
331   2,CMFSyncAgent,nothing,Not Uninstallable,10.0
332   2,Microsoft Ship Asserts,nothing,Not Uninstallable,1.1.4
333   1,Microsoft SQL Server 2012 Transact-SQL Compiler Service ,MsiExec.exe /X{BEB0F91E-F2EA-48A1-B938-78
334   2,syncuid,nothing,Not Uninstallable,8.1
335   2,AddressBookSync,nothing,Not Uninstallable,9.0
336   2,Memory Slot Utility,nothing,Not Uninstallable,1.5.1
337   2,AddPrinter,nothing,Not Uninstallable,10.0
338   2,SyncServicesAgent,nothing,Not Uninstallable,14.4.6
339   2,IMServicePlugInAgent,nothing,Not Uninstallable,10.0
340   2,Microsoft Query,nothing,Not Uninstallable,12.0.0
341   2,Script Editor,nothing,Not Uninstallable,2.7
342   2,AppleFileServer,nothing,Not Uninstallable,2.0
343   2,ColorSync Utility,nothing,Not Uninstallable,4.10.0
344   1,Microsoft System CLR Types for SQL Server 2012 (x64),MsiExec.exe /X{F1949145-EB64-4DE7-9D81-E6D279
345   1,Microsoft Visual C++ 2008 Redistributable - x86 9.0.30729.4148,MsiExec.exe /X{1F1C2DFC-2D24-3E06-B
346   2,Finder,nothing,Not Uninstallable,10.10.1
347   1,Tanium Client 6.0.314.1190,C:\Program Files (x86)\Tanium\Tanium Client\uninst.exe,Not Uninstallabl
348   2,MemoryCleanHelper,nothing,Not Uninstallable,1.0
349   2,Microsoft Word,nothing,Not Uninstallable,14.4.6
350   2,Type4Camera,nothing,Not Uninstallable,10.0
351   2,Pages,nothing,Not Uninstallable,5.5.1
352   2,Canon IJScanner4,nothing,Not Uninstallable,3.1.0
353   2,Microsoft Database Daemon,nothing,Not Uninstallable,14.4.6
354   2,WebProcess,nothing,Not Uninstallable,10600
355   2,ScreenReaderUIServer,nothing,Not Uninstallable,7.0
356   2,PubSubAgent,nothing,Not Uninstallable,1.0.5
357   2,FindMyMacMessenger,nothing,Not Uninstallable,4.1
358   2,Cisco WebEx Meeting Center,nothing,Not Uninstallable,1410.10.2910.1
359   2,File Sync,nothing,Not Uninstallable,8.1
360   2,Preview,nothing,Not Uninstallable,8.0
361   2,Soundflowerbed,nothing,Not Uninstallable,1.0
362   2,Network Recording Player,nothing,Not Uninstallable,2.2.0
363   2,prezi,nothing,Not Uninstallable,r846
364   2,QuickTime Player,nothing,Not Uninstallable,10.4
365   2,KeyboardSetupAssistant,nothing,Not Uninstallable,10.7
366   2,nbagent,nothing,Not Uninstallable,1.0
367   2,Wi-Fi,nothing,Not Uninstallable,1.0
```

Ask manual human question simple single sensor

Ask a manual question using human strings by referencing the name of a single sensor in a string.

No sensor filters, sensor parameters, sensor filter options, question filters, or question options supplied.

Example Python Code

```
1   # Path to lib directory which contains pytan package
2   PYTAN_LIB_PATH = '../lib'
3
```

```
4   # connection info for Tanium Server
5   USERNAME = "Tanium User"
6   PASSWORD = "T@n!um"
7   HOST = "172.16.31.128"
8   PORT = "444"
9
10  # Logging conrols
11  LOGLEVEL = 2
12  DEBUGFORMAT = False
13
14  import sys, tempfile
15  sys.path.append(PYTAN_LIB_PATH)
16
17  import pytan
18  handler = pytan.Handler(
19      username=USERNAME,
20      password=PASSWORD,
21      host=HOST,
22      port=PORT,
23      loglevel=LOGLEVEL,
24      debugformat=DEBUGFORMAT,
25  )
26
27  print handler
28
29  # setup the arguments for the handler method
30  kwargs = {}
31  kwargs["sensors"] = u'Computer Name'
32  kwargs["qtype"] = u'manual_human'
33
34  # call the handler with the ask method, passing in kwargs for arguments
35  response = handler.ask(**kwargs)
36  import pprint, io
37
38  print ""
39  print "Type of response: ", type(response)
40
41  print ""
42  print "Pretty print of response:"
43  print pprint.pformat(response)
44
45  print ""
46  print "Equivalent Question if it were to be asked in the Tanium Console: "
47  print response['question_object'].query_text
48
49  # create an IO stream to store CSV results to
50  out = io.BytesIO()
51
52  # call the write_csv() method to convert response to CSV and store it in out
53  response['question_results'].write_csv(out, response['question_results'])
54
55  print ""
56  print "CSV Results of response: "
57  print out.getvalue()
```

Output from Python Code

```
1   Handler for Session to 172.16.31.128:444, Authenticated: True, Version: 6.2.314.3258
2   2014-12-07 01:02:22,381 INFO     question_progress: Results 0% (Get Computer Name from all machines)
3   2014-12-07 01:02:27,400 INFO     question_progress: Results 100% (Get Computer Name from all machine
4
5   Type of response:  <type 'dict'>
6
7   Pretty print of response:
8   {'question_object': <taniumpy.object_types.question.Question object at 0x1022d4890>,
9    'question_results': <taniumpy.object_types.result_set.ResultSet object at 0x1023230d0>}
10
11  Equivalent Question if it were to be asked in the Tanium Console:
12  Get Computer Name from all machines
13
14  CSV Results of response:
15  Computer Name
16  Casus-Belli.local
17  jtanium1.localdomain
```

Ask manual human question simple multiple sensors

Ask a manual question using human strings by referencing the name of multiple sensors in a list.

No sensor filters, sensor parameters, sensor filter options, question filters, or question options supplied.

Example Python Code

```python
1   # Path to lib directory which contains pytan package
2   PYTAN_LIB_PATH = '../lib'
3
4   # connection info for Tanium Server
5   USERNAME = "Tanium User"
6   PASSWORD = "T@n!um"
7   HOST = "172.16.31.128"
8   PORT = "444"
9
10  # Logging conrols
11  LOGLEVEL = 2
12  DEBUGFORMAT = False
13
14  import sys, tempfile
15  sys.path.append(PYTAN_LIB_PATH)
16
17  import pytan
18  handler = pytan.Handler(
19      username=USERNAME,
20      password=PASSWORD,
21      host=HOST,
22      port=PORT,
23      loglevel=LOGLEVEL,
24      debugformat=DEBUGFORMAT,
25  )
26
27  print handler
28
29  # setup the arguments for the handler method
```

```
30   kwargs = {}
31   kwargs["sensors"] = [u'Computer Name', u'Installed Applications']
32   kwargs["qtype"] = u'manual_human'
33
34   # call the handler with the ask method, passing in kwargs for arguments
35   response = handler.ask(**kwargs)
36   import pprint, io
37
38   print ""
39   print "Type of response: ", type(response)
40
41   print ""
42   print "Pretty print of response:"
43   print pprint.pformat(response)
44
45   print ""
46   print "Equivalent Question if it were to be asked in the Tanium Console: "
47   print response['question_object'].query_text
48
49   # create an IO stream to store CSV results to
50   out = io.BytesIO()
51
52   # call the write_csv() method to convert response to CSV and store it in out
53   response['question_results'].write_csv(out, response['question_results'])
54
55   print ""
56   print "CSV Results of response: "
57   print out.getvalue()
```

Output from Python Code

```
1    Handler for Session to 172.16.31.128:444, Authenticated: True, Version: 6.2.314.3258
2    2014-12-07 01:02:27,503 INFO     question_progress: Results 0% (Get Computer Name and Installed Appl
3    2014-12-07 01:02:32,523 INFO     question_progress: Results 0% (Get Computer Name and Installed Appl
4    2014-12-07 01:02:37,543 INFO     question_progress: Results 100% (Get Computer Name and Installed Ap
5
6    Type of response:  <type 'dict'>
7
8    Pretty print of response:
9    {'question_object': <taniumpy.object_types.question.Question object at 0x10214fb50>,
10    'question_results': <taniumpy.object_types.result_set.ResultSet object at 0x10204fe50>}
11
12   Equivalent Question if it were to be asked in the Tanium Console:
13   Get Computer Name and Installed Applications from all machines
14
15   CSV Results of response:
16   Computer Name,Name,Silent Uninstall String,Uninstallable,Version
17   Casus-Belli.local,"Google Search
18   MakePDF
19   Wish
20   Time Machine
21   AppleGraphicsWarning
22   soagent
23   SpeechService
24   AinuIM
25   Pass Viewer
26   PressAndHold
```

```
27  PluginIM
28  UserNotificationCenter
29  FaceTime
30  ScreenSaverEngine
31  LocationMenu
32  CoRD
33  asannotation2
34  Slack
35  Dashboard
36  Proof
37  Extract
38  Speech Downloader
39  Disk Inventory X
40  Switch Control
41  Python
42  System Information
43  Transmission
44  IDLE
45  CharacterPalette
46  System Events
47  MRTAgent
48  MiniTerm
49  My Day
50  Reminders
51  Wireless Diagnostics
52  Gmail
53  Digital Color Meter
54  Dictation
55  Tunnelblick
56  Memory Clean
57  Screen Sharing
58  Keychain Circle Notification
59  ManagedClient
60  Image Capture
61  VoiceOver Quickstart
62  Stickies
63  TamilIM
64  AddressBookManager
65  NetAuthAgent
66  Directory Utility
67  VietnameseIM
68  Aperture
69  Automator Runner
70  Image Capture Extension
71  EPSON Scanner
72  TextMate
73  OBEXAgent
74  Microsoft Chart Converter
75  Widget Simulator
76  Firefox
77  VoiceOver Utility
78  Skype
79  Office365Service
80  50onPaletteServer
81  Grab
82  Network Setup Assistant
83  AOSAlertManager
84  Java Mission Control
```

```
 85  AppleMobileDeviceHelper
 86  Sublime Text
 87  Notes
 88  AOSHeartbeat
 89  Google Chrome
 90  universalAccessAuthWarn
 91  DatabaseProcess
 92  DiskImages UI Agent
 93  Spotify
 94  Keychain Access
 95  loginwindow
 96  ReportPanic
 97  Install OS X Mavericks
 98  Spotlight
 99  Python Launcher
100  Chess
101  LaterAgent
102  SpeechRecognitionServer
103  App Store
104  CoreServicesUIAgent
105  Build Web Page
106  Microsoft Outlook
107  Yap
108  Dropbox
109  Microsoft Excel
110  GarageBand
111  Microsoft Upload Center
112  Google Docs
113  Numbers
114  iTerm
115  Solver
116  Certificate Assistant
117  Python
118  Photo Booth
119  Microsoft Clip Gallery
120  SyncServer
121  Rename
122  League of Legends
123  Dictionary
124  FileSyncAgent
125  PluginProcess
126  RegisterPluginIMApp
127  Microsoft Document Connection
128  AutoImporter
129  DiskImageMounter
130  Adobe Photoshop Lightroom 5
131  Instruments
132  check_afp
133  Console
134  Network Diagnostics
135  Free42-Decimal
136  Java Web Start
137  Conflict Resolver
138  Audio MIDI Setup
139  Bluetooth Setup Assistant
140  UnRarX
141  X11
142  AddressBookUrlForwarder
```

```
143   Set Info
144   Migration Assistant
145   Git Gui
146   Safari
147   Disk Utility
148   iBooks
149   Photosmart 7510 series
150   VLC
151   Open XML for Excel
152   Terminal
153   IDSRemoteURLConnectionAgent
154   AppleScript Utility
155   VMware Fusion
156   identityservicesd
157   GitHub Conduit
158   Install in Progress
159   Summary Service
160   Google Drive
161   ARDAgent
162   ParentalControls
163   Automator
164   SCIM
165   TextEdit
166   SystemUIServer
167   SocialPushAgent
168   Family
169   GlobalProtect
170   SourceTree
171   ABAssistantService
172   AskPermissionUI
173   Microsoft Office Reminders
174   Dock
175   Python
176   Microsoft Error Reporting
177   iTerm
178   MassStorageCamera
179   eaptlstrust
180   Mail
181   PTPCamera
182   Expansion Slot Utility
183   Wish
184   quicklookd32
185   VoiceOver
186   Application Loader
187   Microsoft PowerPoint
188   CIMFindInputCodeTool
189   rcd
190   AirScanScanner
191   Xcode
192   WebKitPluginHost
193   iCloud Photos
194   Microsoft Graph
195   Calculator
196   Notification Center
197   Getty Images Stream
198   FontRegistryUIAgent
199   NetworkProcess
200   Boot Camp Assistant
```

```
201  | Install Command Line Developer Tools
202  | Display Calibrator
203  | Feedback Assistant
204  | System Preferences
205  | ScriptMonitor
206  | AddressBookSourceSync
207  | Keynote
208  | Jar Launcher
209  | Captive Network Assistant
210  | Type5Camera
211  | Language Chooser
212  | InkServer
213  | System Image Utility
214  | ZoomWindow
215  | Cyberduck
216  | Bluetooth File Exchange
217  | Quicksilver
218  | iPhoto
219  | Microsoft Remote Desktop
220  | CoreLocationAgent
221  | KeyboardViewer
222  | TrackpadIM
223  | Mission Control
224  | EscrowSecurityAlert
225  | Adobe Flash Player Install Manager
226  | Recursive File Processing Droplet
227  | Launchpad
228  | Folder Actions Dispatcher
229  | Type8Camera
230  | DVD Player
231  | AirPort Base Station Agent
232  | Microsoft Alerts Daemon
233  | Canon IJScanner2
234  | SpeechSynthesisServer
235  | Cisco WebEx Start
236  | Equation Editor
237  | Accessibility Inspector
238  | Grapher
239  | RAID Utility
240  | HelpViewer
241  | UniversalAccessControl
242  | iTunes
243  | FindReaperFiles
244  | storeuid
245  | AppDownloadLauncher
246  | imagent
247  | QuickLookUIHelper
248  | Contacts
249  | iMovie
250  | Setup Assistant
251  | YouTube
252  | Folder Actions Setup
253  | Microsoft Language Register
254  | Activity Monitor
255  | ImageCaptureService
256  | atmsupload
257  | GitHub
258  | Network Utility
```

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259   AirPlayUIAgent
260   convertpdf
261   Match
262   Font Book
263   AOSPushRelay
264   KoreanIM
265   SecurityFixer
266   BluetoothUIServer
267   Free42-Binary
268   Show Info
269   Ticket Viewer
270   AppleMobileSync
271   ODSAgent
272   Droplet with Settable Properties
273   Remove
274   Cocoa-AppleScript Applet
275   Image Events
276   PrinterProxy
277   AirPort Utility
278   Archive Utility
279   Database Events
280   ChineseTextConverterService
281   Installer
282   JapaneseIM
283   Calibration Assistant
284   Maps
285   Microsoft Office Setup Assistant
286   PyCharm CE
287   Game Center
288   Embed
289   Spotlight
290   VirtualScanner
291   FileMerge
292   Software Update
293   Microsoft AutoUpdate
294   UnmountAssistantAgent
295   Messages
296   Microsoft Database Utility
297   TCIM
298   iCloudUserNotificationsd
299   quicklookd
300   CalendarFileHandler
301   Problem Reporter
302   Recursive Image File Processing Droplet
303   Google Drive
304   CMFSyncAgent
305   Microsoft Ship Asserts
306   syncuid
307   AddressBookSync
308   Memory Slot Utility
309   AddPrinter
310   SyncServicesAgent
311   IMServicePlugInAgent
312   Microsoft Query
313   Script Editor
314   AppleFileServer
315   ColorSync Utility
316   Finder
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```
317  MemoryCleanHelper
318  Microsoft Word
319  Type4Camera
320  Pages
321  Canon IJScanner4
322  Microsoft Database Daemon
323  WebProcess
324  ScreenReaderUIServer
325  PubSubAgent
326  FindMyMacMessenger
327  Cisco WebEx Meeting Center
328  File Sync
329  Preview
330  Soundflowerbed
331  Network Recording Player
332  prezi
333  QuickTime Player
334  KeyboardSetupAssistant
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1294  jtanium1.localdomain,"Microsoft Visual C++ 2008 Redistributable - x86 9.0.30729.6161
1295  Microsoft SQL Server 2008 R2 Management Objects
1296  Microsoft SQL Server System CLR Types
1297  Microsoft SQL Server 2012 (64-bit)
1298  Microsoft Visual C++ 2012 Redistributable (x86) - 11.0.61030
1299  Microsoft Visual C++ 2010  x86 Runtime - 10.0.40219
1300  Microsoft SQL Server 2012 Setup (English)
1301  Microsoft SQL Server 2012 Native Client
1302  Google Chrome
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1303    Microsoft Help Viewer 1.1
1304    Microsoft Visual Studio 2010 Shell (Isolated) - ENU
1305    Microsoft SQL Server 2008 Setup Support Files
1306    Microsoft Report Viewer 2012 Runtime
1307    Microsoft Visual C++ 2010  x86 Redistributable - 10.0.40219
1308    Tanium Server 6.2.314.3258
1309    Python 2.7.8 (64-bit)
1310    Visual Studio 2010 Prerequisites - English
1311    Microsoft Visual C++ 2012 Redistributable (x64) - 11.0.61030
1312    Microsoft SQL Server 2012 Transact-SQL ScriptDom
1313    Microsoft VSS Writer for SQL Server 2012
1314    Microsoft Visual C++ 2008 Redistributable - x86 9.0.30729.4974
1315    SQL Server Browser for SQL Server 2012
1316    Tanium Client Deployment Tool
1317    Adobe Flash Player 15 ActiveX
1318    Microsoft .NET Framework 4 Multi-Targeting Pack
1319    Microsoft Visual C++ 2010  x64 Redistributable - 10.0.40219
1320    Microsoft Visual C++ 2008 Redistributable - x64 9.0.30729.6161
1321    Microsoft .NET Framework 4.5.1
1322    VMware Tools
1323    Microsoft SQL Server 2012 Transact-SQL Compiler Service
1324    Microsoft System CLR Types for SQL Server 2012 (x64)
1325    Microsoft Visual C++ 2008 Redistributable - x86 9.0.30729.4148
1326    Tanium Client 6.0.314.1190","MsiExec.exe /X{9BE518E6-ECC6-35A9-88E4-87755C07200F} /qn /noreboot
1327    MsiExec.exe /X{83F2B8F4-5CF3-4BE9-9772-9543EAE4AC5F} /qn /noreboot
1328    MsiExec.exe /X{C3F6F200-6D7B-4879-B9EE-700C0CE1FCDA} /qn /noreboot
1329    ""c:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\x64\SetupARP.exe""
1330    ""C:\ProgramData\Package Cache\{33d1fd90-4274-48a1-9bc1-97e33d9c2d6f}\vcredist_x86.exe""  /uninstall
1331    MsiExec.exe /X{5D9ED403-94DE-3BA0-B1D6-71F4BDA412E6} /qn /noreboot
1332    MsiExec.exe /X{8CB0713F-CFE0-445D-BCB2-538465860E1A} /qn /noreboot
1333    MsiExec.exe /X{49D665A2-4C2A-476E-9AB8-FCC425F526FC} /qn /noreboot
1334    ""C:\Program Files (x86)\Google\Chrome\Application\39.0.2171.71\Installer\setup.exe"" --uninstall --
1335    c:\Program Files\Microsoft Help Viewer\v1.0\Microsoft Help Viewer 1.1\install.exe
1336    MsiExec.exe /X{D64B6984-242F-32BC-B008-752806E5FC44} /qn /noreboot
1337    MsiExec.exe /X{B40EE88B-400A-4266-A17B-E3DE64E94431} /qn /noreboot
1338    MsiExec.exe /X{9CCE40CE-A9E6-4916-8729-B008558EEF3F} /qn /noreboot
1339    MsiExec.exe /X{F0C3E5D1-1ADE-321E-8167-68EF0DE699A5} /qn /noreboot
1340    C:\Program Files\Tanium\Tanium Server\uninst.exe
1341    MsiExec.exe /X{61121B12-88BD-4261-A6EE-AB32610A56DE} /qn /noreboot
1342    MsiExec.exe /X{662014D2-0450-37ED-ABAE-157C88127BEB} /qn /noreboot
1343    ""C:\ProgramData\Package Cache\{ca67548a-5ebe-413a-b50c-4b9ceb6d66c6}\vcredist_x64.exe""  /uninstall
1344    MsiExec.exe /X{0E8670B8-3965-4930-ADA6-570348B67153} /qn /noreboot
1345    MsiExec.exe /X{3E0DD83F-BE4C-4478-86A0-AD0D79D1353E} /qn /noreboot
1346    MsiExec.exe /X{B7E38540-E355-3503-AFD7-635B2F2F76E1} /qn /noreboot
1347    MsiExec.exe /X{4B9E6EB0-0EED-4E74-9479-F982C3254F71} /qn /noreboot
1348    ""C:\Program Files (x86)\Tanium\Tanium Client Deployment Tool\uninstall.exe""
1349    C:\Windows\SysWOW64\Macromed\Flash\FlashUtil32_15_0_0_239_ActiveX.exe -maintain activex
1350    MsiExec.exe /X{CFEF48A8-BFB8-3EAC-8BA5-DE4F8AA267CE} /qn /noreboot
1351    MsiExec.exe /X{1D8E6291-B0D5-35EC-8441-6616F567A0F7} /qn /noreboot
1352    MsiExec.exe /X{5FCE6D76-F5DC-37AB-B2B8-22AB8CEDB1D4} /qn /noreboot
1353    C:\Windows\Microsoft.NET\Framework64\v4.0.30319\SetupCache\v4.5.50938\\Setup.exe /repair /x86 /x64
1354    MsiExec.exe /X{8CF7A691-09D2-4659-8C84-0406A7B58AE7} /qn /noreboot
1355    MsiExec.exe /X{BEB0F91E-F2EA-48A1-B938-7857ABF2A93D} /qn /noreboot
1356    MsiExec.exe /X{F1949145-EB64-4DE7-9D81-E6D27937146C} /qn /noreboot
1357    MsiExec.exe /X{1F1C2DFC-2D24-3E06-BCB8-725134ADF989} /qn /noreboot
1358    C:\Program Files (x86)\Tanium\Tanium Client\uninst.exe","Is Uninstallable
1359    Is Uninstallable
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1394  11.0.61030.0
1395  10.0.40219
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1397  11.0.2100.60
1398  39.0.2171.71
1399  1.1.40219
1400  10.0.40219
1401  10.1.2731.0
1402  11.0.2100.60
1403  10.0.40219
1404  6.2.314.3258
1405  2.7.8150
1406  10.0.40219
1407  11.0.61030.0
1408  11.0.2100.60
1409  11.0.2100.60
1410  9.0.30729.4974
1411  11.0.2100.60
1412  4.0.0.0
1413  15.0.0.239
1414  4.0.30319
1415  10.0.40219
1416  9.0.30729.6161
1417  4.5.50938
1418  9.8.4.2202052
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```
1419    11.0.2100.60
1420    11.0.2100.60
1421    9.0.30729.4148
1422    6.0.314.1190"
```

Ask manual human question multiple sensors identified by name

Ask a manual question using human strings by referencing the name of multiple sensors and providing a selector that tells pytan explicitly that we are providing a name of a sensor.

No sensor filters, sensor parameters, sensor filter options, question filters, or question options supplied.

Example Python Code

```python
1    # Path to lib directory which contains pytan package
2    PYTAN_LIB_PATH = '../lib'
3
4    # connection info for Tanium Server
5    USERNAME = "Tanium User"
6    PASSWORD = "T@n!um"
7    HOST = "172.16.31.128"
8    PORT = "444"
9
10   # Logging conrols
11   LOGLEVEL = 2
12   DEBUGFORMAT = False
13
14   import sys, tempfile
15   sys.path.append(PYTAN_LIB_PATH)
16
17   import pytan
18   handler = pytan.Handler(
19       username=USERNAME,
20       password=PASSWORD,
21       host=HOST,
22       port=PORT,
23       loglevel=LOGLEVEL,
24       debugformat=DEBUGFORMAT,
25   )
26
27   print handler
28
29   # setup the arguments for the handler method
30   kwargs = {}
31   kwargs["sensors"] = [u'name:Computer Name', u'name:Installed Applications']
32   kwargs["qtype"] = u'manual_human'
33
34   # call the handler with the ask method, passing in kwargs for arguments
35   response = handler.ask(**kwargs)
36   import pprint, io
37
38   print ""
39   print "Type of response: ", type(response)
40
41   print ""
42   print "Pretty print of response:"
```

```
43    print pprint.pformat(response)
44
45    print ""
46    print "Equivalent Question if it were to be asked in the Tanium Console: "
47    print response['question_object'].query_text
48
49    # create an IO stream to store CSV results to
50    out = io.BytesIO()
51
52    # call the write_csv() method to convert response to CSV and store it in out
53    response['question_results'].write_csv(out, response['question_results'])
54
55    print ""
56    print "CSV Results of response: "
57    print out.getvalue()
```

Output from Python Code

```
1    Handler for Session to 172.16.31.128:444, Authenticated: True, Version: 6.2.314.3258
2    2014-12-07 01:02:37,665 INFO     question_progress: Results 0% (Get Computer Name and Installed Appl
3    2014-12-07 01:02:42,687 INFO     question_progress: Results 100% (Get Computer Name and Installed Ap
4
5    Type of response:  <type 'dict'>
6
7    Pretty print of response:
8    {'question_object': <taniumpy.object_types.question.Question object at 0x1022cdb90>,
9     'question_results': <taniumpy.object_types.result_set.ResultSet object at 0x10205ab90>}
10
11   Equivalent Question if it were to be asked in the Tanium Console:
12   Get Computer Name and Installed Applications from all machines
13
14   CSV Results of response:
15   Computer Name,Name,Silent Uninstall String,Uninstallable,Version
16   Casus-Belli.local,"Google Search
17   MakePDF
18   Wish
19   Time Machine
20   AppleGraphicsWarning
21   soagent
22   SpeechService
23   AinuIM
24   Pass Viewer
25   PressAndHold
26   PluginIM
27   UserNotificationCenter
28   FaceTime
29   ScreenSaverEngine
30   LocationMenu
31   CoRD
32   asannotation2
33   Slack
34   Dashboard
35   Proof
36   Extract
37   Speech Downloader
38   Disk Inventory X
39   Switch Control
```

```
40  Python
41  System Information
42  Transmission
43  IDLE
44  CharacterPalette
45  System Events
46  MRTAgent
47  MiniTerm
48  My Day
49  Reminders
50  Wireless Diagnostics
51  Gmail
52  Digital Color Meter
53  Dictation
54  Tunnelblick
55  Memory Clean
56  Screen Sharing
57  Keychain Circle Notification
58  ManagedClient
59  Image Capture
60  VoiceOver Quickstart
61  Stickies
62  TamilIM
63  AddressBookManager
64  NetAuthAgent
65  Directory Utility
66  VietnameseIM
67  Aperture
68  Automator Runner
69  Image Capture Extension
70  EPSON Scanner
71  TextMate
72  OBEXAgent
73  Microsoft Chart Converter
74  Widget Simulator
75  Firefox
76  VoiceOver Utility
77  Skype
78  Office365Service
79  50onPaletteServer
80  Grab
81  Network Setup Assistant
82  AOSAlertManager
83  Java Mission Control
84  AppleMobileDeviceHelper
85  Sublime Text
86  Notes
87  AOSHeartbeat
88  Google Chrome
89  universalAccessAuthWarn
90  DatabaseProcess
91  DiskImages UI Agent
92  Spotify
93  Keychain Access
94  loginwindow
95  ReportPanic
96  Install OS X Mavericks
97  Spotlight
```

```
 98  Python Launcher
 99  Chess
100  LaterAgent
101  SpeechRecognitionServer
102  App Store
103  CoreServicesUIAgent
104  Build Web Page
105  Microsoft Outlook
106  Yap
107  Dropbox
108  Microsoft Excel
109  GarageBand
110  Microsoft Upload Center
111  Google Docs
112  Numbers
113  iTerm
114  Solver
115  Certificate Assistant
116  Python
117  Photo Booth
118  Microsoft Clip Gallery
119  SyncServer
120  Rename
121  League of Legends
122  Dictionary
123  FileSyncAgent
124  PluginProcess
125  RegisterPluginIMApp
126  Microsoft Document Connection
127  AutoImporter
128  DiskImageMounter
129  Adobe Photoshop Lightroom 5
130  Instruments
131  check_afp
132  Console
133  Network Diagnostics
134  Free42-Decimal
135  Java Web Start
136  Conflict Resolver
137  Audio MIDI Setup
138  Bluetooth Setup Assistant
139  UnRarX
140  X11
141  AddressBookUrlForwarder
142  Set Info
143  Migration Assistant
144  Git Gui
145  Safari
146  Disk Utility
147  iBooks
148  Photosmart 7510 series
149  VLC
150  Open XML for Excel
151  Terminal
152  IDSRemoteURLConnectionAgent
153  AppleScript Utility
154  VMware Fusion
155  identityservicesd
```

```
156 │ GitHub Conduit
157 │ Install in Progress
158 │ Summary Service
159 │ Google Drive
160 │ ARDAgent
161 │ ParentalControls
162 │ Automator
163 │ SCIM
164 │ TextEdit
165 │ SystemUIServer
166 │ SocialPushAgent
167 │ Family
168 │ GlobalProtect
169 │ SourceTree
170 │ ABAssistantService
171 │ AskPermissionUI
172 │ Microsoft Office Reminders
173 │ Dock
174 │ Python
175 │ Microsoft Error Reporting
176 │ iTerm
177 │ MassStorageCamera
178 │ eaptlstrust
179 │ Mail
180 │ PTPCamera
181 │ Expansion Slot Utility
182 │ Wish
183 │ quicklookd32
184 │ VoiceOver
185 │ Application Loader
186 │ Microsoft PowerPoint
187 │ CIMFindInputCodeTool
188 │ rcd
189 │ AirScanScanner
190 │ Xcode
191 │ WebKitPluginHost
192 │ iCloud Photos
193 │ Microsoft Graph
194 │ Calculator
195 │ Notification Center
196 │ Getty Images Stream
197 │ FontRegistryUIAgent
198 │ NetworkProcess
199 │ Boot Camp Assistant
200 │ Install Command Line Developer Tools
201 │ Display Calibrator
202 │ Feedback Assistant
203 │ System Preferences
204 │ ScriptMonitor
205 │ AddressBookSourceSync
206 │ Keynote
207 │ Jar Launcher
208 │ Captive Network Assistant
209 │ Type5Camera
210 │ Language Chooser
211 │ InkServer
212 │ System Image Utility
213 │ ZoomWindow
```

```
214   Cyberduck
215   Bluetooth File Exchange
216   Quicksilver
217   iPhoto
218   Microsoft Remote Desktop
219   CoreLocationAgent
220   KeyboardViewer
221   TrackpadIM
222   Mission Control
223   EscrowSecurityAlert
224   Adobe Flash Player Install Manager
225   Recursive File Processing Droplet
226   Launchpad
227   Folder Actions Dispatcher
228   Type8Camera
229   DVD Player
230   AirPort Base Station Agent
231   Microsoft Alerts Daemon
232   Canon IJScanner2
233   SpeechSynthesisServer
234   Cisco WebEx Start
235   Equation Editor
236   Accessibility Inspector
237   Grapher
238   RAID Utility
239   HelpViewer
240   UniversalAccessControl
241   iTunes
242   FindReaperFiles
243   storeuid
244   AppDownloadLauncher
245   imagent
246   QuickLookUIHelper
247   Contacts
248   iMovie
249   Setup Assistant
250   YouTube
251   Folder Actions Setup
252   Microsoft Language Register
253   Activity Monitor
254   ImageCaptureService
255   atmsupload
256   GitHub
257   Network Utility
258   AirPlayUIAgent
259   convertpdf
260   Match
261   Font Book
262   AOSPushRelay
263   KoreanIM
264   SecurityFixer
265   BluetoothUIServer
266   Free42-Binary
267   Show Info
268   Ticket Viewer
269   AppleMobileSync
270   ODSAgent
271   Droplet with Settable Properties
```

```
272   Remove
273   Cocoa-AppleScript Applet
274   Image Events
275   PrinterProxy
276   AirPort Utility
277   Archive Utility
278   Database Events
279   ChineseTextConverterService
280   Installer
281   JapaneseIM
282   Calibration Assistant
283   Maps
284   Microsoft Office Setup Assistant
285   PyCharm CE
286   Game Center
287   Embed
288   Spotlight
289   VirtualScanner
290   FileMerge
291   Software Update
292   Microsoft AutoUpdate
293   UnmountAssistantAgent
294   Messages
295   Microsoft Database Utility
296   TCIM
297   iCloudUserNotificationsd
298   quicklookd
299   CalendarFileHandler
300   Problem Reporter
301   Recursive Image File Processing Droplet
302   Google Drive
303   CMFSyncAgent
304   Microsoft Ship Asserts
305   syncuid
306   AddressBookSync
307   Memory Slot Utility
308   AddPrinter
309   SyncServicesAgent
310   IMServicePlugInAgent
311   Microsoft Query
312   Script Editor
313   AppleFileServer
314   ColorSync Utility
315   Finder
316   MemoryCleanHelper
317   Microsoft Word
318   Type4Camera
319   Pages
320   Canon IJScanner4
321   Microsoft Database Daemon
322   WebProcess
323   ScreenReaderUIServer
324   PubSubAgent
325   FindMyMacMessenger
326   Cisco WebEx Meeting Center
327   File Sync
328   Preview
329   Soundflowerbed
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330   Network Recording Player
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968  Not Uninstallable
969  Not Uninstallable
970  Not Uninstallable
971  Not Uninstallable
972  Not Uninstallable
973  Not Uninstallable","37.0.2062.120
974  10.0
975  8.5.9
976  1.3
977  2.3.0
978  7.0
979  5.2.6
980  1.0
981  1.0
982  1.2
983  15
984  3.3.0
985  3.0
986  5.0
987  1.0
988  0.5.7
989  1308.22.2900.0
990  1.0.2
991  1.8
992  None
993  None
994  5.0.25
995  1.0
996  2.0
997  2.6.9
998  10.10
999  2.84
1000 2.7.8
1001 2.0.1
1002 1.3.6
1003 1.1
1004 1.9
1005 14.4.6
1006 3.0
1007 4.0
1008 37.0.2062.120
1009 5.10
1010 1.4.55
1011 3.4.0 (build 4007)
1012 4.7
1013 1.6
1014 1.0
1015 7.0
1016 6.6
1017 7.0
1018 10.0
1019 1.6
1020 9.0
1021 5.0
1022 5.0
1023 1.4
1024 3.6
1025 2.5
```

```
1026  10.0
1027  5.7.6
1028  2.0-beta.6.4
1029  4.3.1
1030  14.4.6
1031  1.0
1032  33.1.1
1033  7.0
1034  6.19
1035  14.4.6
1036  1.1.0
1037  1.8
1038  10.8.0
1039  1.06
1040  5.4.0
1041  5.0
1042  Build 3065
1043  3.1
1044  1.06
1045  39.0.2171.71
1046  1.0
1047  10600
1048  10.10
1049  0.9.14.13.gba5645ad
1050  9.0
1051  9.0
1052  10.10
1053  1.3.44
1054  3.0
1055  2.7.8
1056  3.10
1057  1.0
1058  5.0.25
1059  2.0
1060  134.6
1061  10.0
1062  14.4.6
1063  None
1064  2.10.29
1065  14.4.6
1066  10.0.3
1067  14.4.6
1068  37.0.2062.120
1069  3.5
1070  2.0.0.20141103
1071  1.0
1072  5.0
1073  2.7.8
1074  7.0
1075  14.4.6
1076  8.1
1077  None
1078  1.0
1079  2.2.1
1080  8.1
1081  10600
1082  15
1083  14.4.6
```

```
1084   6.6
1085   10.10
1086   Adobe Photoshop Lightroom 5.6 [974614]
1087   6.1
1088   4.0
1089   10.10
1090   1.3
1091   None
1092   15.0.0
1093   8.1
1094   3.0.6
1095   4.3.1
1096   Version 2.2
1097   1.0.1
1098   9.0
1099   None
1100   5
1101   0.19.0.2.g3decb8e
1102   8.0
1103   13
1104   1.1
1105   10.0
1106   2.1.5
1107   14.4.6
1108   2.5
1109   10.0
1110   1.1.2
1111   7.1.0
1112   10.0
1113   1.0
1114   3.0
1115   2.0
1116   1.18
1117   3.8
1118   4.1
1119   2.5
1120   102
1121   1.10
1122   1.7
1123   25
1124   1.0
1125   2.1.0-50
1126   2.0.2
1127   9.0
1128   1.0
1129   14.4.6
1130   1.8
1131   2.7.6
1132   2.2.9
1133   None
1134   10.0
1135   13.0
1136   8.1
1137   10.0
1138   1.5.1
1139   8.4.19
1140   5.0
1141   7.0
```

```
1142   3.0
1143   14.4.6
1144   102
1145   327.5
1146   10.0
1147   6.1.1
1148   10600
1149   2.7
1150   14.4.6
1151   10.8
1152   1.0
1153   1.0.0
1154   81.0
1155   10600
1156   5.1.2
1157   1.0
1158   4.10.0
1159   4.1.1
1160   14.0
1161   1.0
1162   9.0
1163   6.5
1164   15.0.0
1165   3.0
1166   10.0
1167   1.0
1168   10.9
1169   10.10
1170   2.0
1171   4.5.2
1172   4.3.1
1173   1.2.1
1174   9.6
1175   8.0.25189
1176   1486.12
1177   3.2
1178   1.5
1179   1.2
1180   1.0
1181   15.0.0.239
1182   1.0
1183   1.0
1184   1.0.4
1185   10.0
1186   5.7
1187   2.2.1
1188   14.4.6
1189   3.1.0
1190   5.2.6
1191   0.4.6
1192   14.2.0
1193   4.1
1194   2.5
1195   4.0
1196   5.2
1197   7.0
1198   12.0.1
1199   802
```

```
1200  1.0
1201  1.0
1202  10.0
1203  5.0
1204  9.0
1205  10.0.6
1206  10.10
1207  37.0.2062.120
1208  1.1.6
1209  14.4.6
1210  10.10.0
1211  6.6
1212  1408.13.2909.0
1213  Medium Hefson
1214  1.8
1215  2.0
1216  1.2
1217  None
1218  5.0
1219  1.06
1220  6.4
1221  10.8
1222  4.3.1
1223  None
1224  None
1225  4.0
1226  5.0
1227  1.8
1228  1.0
1229  None
1230  1.0
1231  1.1.6
1232  10.0
1233  6.3.4
1234  10.10
1235  1.0.6
1236  2.1
1237  6.1.0
1238  5.0
1239  1.0
1240  2.0
1241  14.4.1
1242  3.4.1
1243  2.0
1244  None
1245  1.0
1246  4.0
1247  2.8
1248  6
1249  2.3.6
1250  5.0
1251  8.0
1252  14.4.6
1253  102
1254  1.0
1255  5.0
1256  8.0
1257  10.10
```

```
1258   1.0
1259   37.0.2062.120
1260   10.0
1261   1.1.4
1262   8.1
1263   9.0
1264   1.5.1
1265   10.0
1266   14.4.6
1267   10.0
1268   12.0.0
1269   2.7
1270   2.0
1271   4.10.0
1272   10.10.1
1273   1.0
1274   14.4.6
1275   10.0
1276   5.5.1
1277   3.1.0
1278   14.4.6
1279   10600
1280   7.0
1281   1.0.5
1282   4.1
1283   1410.10.2910.1
1284   8.1
1285   8.0
1286   1.0
1287   2.2.0
1288   r846
1289   10.4
1290   10.7
1291   1.0
1292   1.0"
1293   jtanium1.localdomain,"Microsoft Visual C++ 2008 Redistributable - x86 9.0.30729.6161
1294   Microsoft SQL Server 2008 R2 Management Objects
1295   Microsoft SQL Server System CLR Types
1296   Microsoft SQL Server 2012 (64-bit)
1297   Microsoft Visual C++ 2012 Redistributable (x86) - 11.0.61030
1298   Microsoft Visual C++ 2010  x86 Runtime - 10.0.40219
1299   Microsoft SQL Server 2012 Setup (English)
1300   Microsoft SQL Server 2012 Native Client
1301   Google Chrome
1302   Microsoft Help Viewer 1.1
1303   Microsoft Visual Studio 2010 Shell (Isolated) - ENU
1304   Microsoft SQL Server 2008 Setup Support Files
1305   Microsoft Report Viewer 2012 Runtime
1306   Microsoft Visual C++ 2010  x86 Redistributable - 10.0.40219
1307   Tanium Server 6.2.314.3258
1308   Python 2.7.8 (64-bit)
1309   Visual Studio 2010 Prerequisites - English
1310   Microsoft Visual C++ 2012 Redistributable (x64) - 11.0.61030
1311   Microsoft SQL Server 2012 Transact-SQL ScriptDom
1312   Microsoft VSS Writer for SQL Server 2012
1313   Microsoft Visual C++ 2008 Redistributable - x86 9.0.30729.4974
1314   SQL Server Browser for SQL Server 2012
1315   Tanium Client Deployment Tool
```

```
1316   Adobe Flash Player 15 ActiveX
1317   Microsoft .NET Framework 4 Multi-Targeting Pack
1318   Microsoft Visual C++ 2010  x64 Redistributable - 10.0.40219
1319   Microsoft Visual C++ 2008 Redistributable - x64 9.0.30729.6161
1320   Microsoft .NET Framework 4.5.1
1321   VMware Tools
1322   Microsoft SQL Server 2012 Transact-SQL Compiler Service
1323   Microsoft System CLR Types for SQL Server 2012 (x64)
1324   Microsoft Visual C++ 2008 Redistributable - x86 9.0.30729.4148
1325   Tanium Client 6.0.314.1190","MsiExec.exe /X{9BE518E6-ECC6-35A9-88E4-87755C07200F} /qn /noreboot
1326   MsiExec.exe /X{83F2B8F4-5CF3-4BE9-9772-9543EAE4AC5F} /qn /noreboot
1327   MsiExec.exe /X{C3F6F200-6D7B-4879-B9EE-700C0CE1FCDA} /qn /noreboot
1328   ""c:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\x64\SetupARP.exe""
1329   ""C:\ProgramData\Package Cache\{33d1fd90-4274-48a1-9bc1-97e33d9c2d6f}\vcredist_x86.exe""  /uninstall
1330   MsiExec.exe /X{5D9ED403-94DE-3BA0-B1D6-71F4BDA412E6} /qn /noreboot
1331   MsiExec.exe /X{8CB0713F-CFE0-445D-BCB2-538465860E1A} /qn /noreboot
1332   MsiExec.exe /X{49D665A2-4C2A-476E-9AB8-FCC425F526FC} /qn /noreboot
1333   ""C:\Program Files (x86)\Google\Chrome\Application\39.0.2171.71\Installer\setup.exe"" --uninstall --
1334   c:\Program Files\Microsoft Help Viewer\v1.0\Microsoft Help Viewer 1.1\install.exe
1335   MsiExec.exe /X{D64B6984-242F-32BC-B008-752806E5FC44} /qn /noreboot
1336   MsiExec.exe /X{B40EE88B-400A-4266-A17B-E3DE64E94431} /qn /noreboot
1337   MsiExec.exe /X{9CCE40CE-A9E6-4916-8729-B008558EEF3F} /qn /noreboot
1338   MsiExec.exe /X{F0C3E5D1-1ADE-321E-8167-68EF0DE699A5} /qn /noreboot
1339   C:\Program Files\Tanium\Tanium Server\uninst.exe
1340   MsiExec.exe /X{61121B12-88BD-4261-A6EE-AB32610A56DE} /qn /noreboot
1341   MsiExec.exe /X{662014D2-0450-37ED-ABAE-157C88127BEB} /qn /noreboot
1342   ""C:\ProgramData\Package Cache\{ca67548a-5ebe-413a-b50c-4b9ceb6d66c6}\vcredist_x64.exe""  /uninstall
1343   MsiExec.exe /X{0E8670B8-3965-4930-ADA6-570348B67153} /qn /noreboot
1344   MsiExec.exe /X{3E0DD83F-BE4C-4478-86A0-AD0D79D1353E} /qn /noreboot
1345   MsiExec.exe /X{B7E38540-E355-3503-AFD7-635B2F2F76E1} /qn /noreboot
1346   MsiExec.exe /X{4B9E6EB0-0EED-4E74-9479-F982C3254F71} /qn /noreboot
1347   ""C:\Program Files (x86)\Tanium\Tanium Client Deployment Tool\uninstall.exe""
1348   C:\Windows\SysWOW64\Macromed\Flash\FlashUtil32_15_0_0_239_ActiveX.exe -maintain activex
1349   MsiExec.exe /X{CFEF48A8-BFB8-3EAC-8BA5-DE4F8AA267CE} /qn /noreboot
1350   MsiExec.exe /X{1D8E6291-B0D5-35EC-8441-6616F567A0F7} /qn /noreboot
1351   MsiExec.exe /X{5FCE6D76-F5DC-37AB-B2B8-22AB8CEDB1D4} /qn /noreboot
1352   C:\Windows\Microsoft.NET\Framework64\v4.0.30319\SetupCache\v4.5.50938\\Setup.exe /repair /x86 /x64
1353   MsiExec.exe /X{8CF7A691-09D2-4659-8C84-0406A7B58AE7} /qn /noreboot
1354   MsiExec.exe /X{BEB0F91E-F2EA-48A1-B938-7857ABF2A93D} /qn /noreboot
1355   MsiExec.exe /X{F1949145-EB64-4DE7-9D81-E6D27937146C} /qn /noreboot
1356   MsiExec.exe /X{1F1C2DFC-2D24-3E06-BCB8-725134ADF989} /qn /noreboot
1357   C:\Program Files (x86)\Tanium\Tanium Client\uninst.exe","Is Uninstallable
1358   Is Uninstallable
1359   Is Uninstallable
1360   Not Uninstallable
1361   Not Uninstallable
1362   Is Uninstallable
1363   Is Uninstallable
1364   Is Uninstallable
1365   Not Uninstallable
1366   Not Uninstallable
1367   Is Uninstallable
1368   Is Uninstallable
1369   Is Uninstallable
1370   Is Uninstallable
1371   Not Uninstallable
1372   Is Uninstallable
1373   Is Uninstallable
```

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1374  Not Uninstallable
1375  Is Uninstallable
1376  Is Uninstallable
1377  Is Uninstallable
1378  Is Uninstallable
1379  Not Uninstallable
1380  Not Uninstallable
1381  Is Uninstallable
1382  Is Uninstallable
1383  Is Uninstallable
1384  Not Uninstallable
1385  Is Uninstallable
1386  Is Uninstallable
1387  Is Uninstallable
1388  Is Uninstallable
1389  Not Uninstallable","9.0.30729.6161
1390  10.51.2500.0
1391  10.51.2500.0
1392  64-
1393  11.0.61030.0
1394  10.0.40219
1395  11.1.3128.0
1396  11.0.2100.60
1397  39.0.2171.71
1398  1.1.40219
1399  10.0.40219
1400  10.1.2731.0
1401  11.0.2100.60
1402  10.0.40219
1403  6.2.314.3258
1404  2.7.8150
1405  10.0.40219
1406  11.0.61030.0
1407  11.0.2100.60
1408  11.0.2100.60
1409  9.0.30729.4974
1410  11.0.2100.60
1411  4.0.0.0
1412  15.0.0.239
1413  4.0.30319
1414  10.0.40219
1415  9.0.30729.6161
1416  4.5.50938
1417  9.8.4.2202052
1418  11.0.2100.60
1419  11.0.2100.60
1420  9.0.30729.4148
1421  6.0.314.1190"
```

Ask manual human question sensor with parameters and some supplied parameters

Ask a manual question using human strings by referencing the name of a single sensor that takes parameters, but supplying only two of the four parameters that are used by the sensor (and letting pytan automatically determine the appropriate default value for those parameters which require a value and none was supplied).

No sensor filters, sensor parameters, sensor filter options, question filters, or question options supplied.

Example Python Code

```python
# Path to lib directory which contains pytan package
PYTAN_LIB_PATH = '../lib'

# connection info for Tanium Server
USERNAME = "Tanium User"
PASSWORD = "T@n!um"
HOST = "172.16.31.128"
PORT = "444"

# Logging conrols
LOGLEVEL = 2
DEBUGFORMAT = False

import sys, tempfile
sys.path.append(PYTAN_LIB_PATH)

import pytan
handler = pytan.Handler(
    username=USERNAME,
    password=PASSWORD,
    host=HOST,
    port=PORT,
    loglevel=LOGLEVEL,
    debugformat=DEBUGFORMAT,
)

print handler

# setup the arguments for the handler method
kwargs = {}
kwargs["sensors"] = u'Folder Name Search with RegEx Match{dirname=Program Files,regex=Microsoft.*}'
kwargs["qtype"] = u'manual_human'

# call the handler with the ask method, passing in kwargs for arguments
response = handler.ask(**kwargs)
import pprint, io

print ""
print "Type of response: ", type(response)

print ""
print "Pretty print of response:"
print pprint.pformat(response)

print ""
print "Equivalent Question if it were to be asked in the Tanium Console: "
print response['question_object'].query_text

# create an IO stream to store CSV results to
out = io.BytesIO()

# call the write_csv() method to convert response to CSV and store it in out
response['question_results'].write_csv(out, response['question_results'])

print ""
print "CSV Results of response: "
```

```
57    print out.getvalue()
```

Output from Python Code

```
1    Handler for Session to 172.16.31.128:444, Authenticated: True, Version: 6.2.314.3258
2    2014-12-07 01:02:42,814 INFO     question_progress: Results 0% (Get Folder Name Search with RegEx Ma
3    2014-12-07 01:02:47,829 INFO     question_progress: Results 0% (Get Folder Name Search with RegEx Ma
4    2014-12-07 01:02:52,846 INFO     question_progress: Results 0% (Get Folder Name Search with RegEx Ma
5    2014-12-07 01:02:57,864 INFO     question_progress: Results 0% (Get Folder Name Search with RegEx Ma
6    2014-12-07 01:03:02,883 INFO     question_progress: Results 0% (Get Folder Name Search with RegEx Ma
7    2014-12-07 01:03:07,901 INFO     question_progress: Results 0% (Get Folder Name Search with RegEx Ma
8    2014-12-07 01:03:12,917 INFO     question_progress: Results 0% (Get Folder Name Search with RegEx Ma
9    2014-12-07 01:03:17,935 INFO     question_progress: Results 100% (Get Folder Name Search with RegEx
10
11   Type of response:  <type 'dict'>
12
13   Pretty print of response:
14   {'question_object': <taniumpy.object_types.question.Question object at 0x1021414d0>,
15    'question_results': <taniumpy.object_types.result_set.ResultSet object at 0x10226e890>}
16
17   Equivalent Question if it were to be asked in the Tanium Console:
18   Get Folder Name Search with RegEx Match[No, Program Files, No, ] from all machines
19
20   CSV Results of response:
21   "Folder Name Search with RegEx Match[No, Program Files, No, ]"
22   C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-09-16-20-44-23\cgi-bin
23   C:\Program Files\VMware\VMware Tools\plugins\vmsvc
24   C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\1040_ITA_LP\x64\1040\help
25   C:\Program Files\Common Files\Microsoft Shared\VS7Debug
26   C:\Program Files\Tanium\Tanium Server\Apache24\manual\style
27   C:\Program Files\Tanium\Tanium Server\Apache24\htdocs\console\history
28   C:\Program Files\Common Files\VMware\Drivers\vmci\sockets\include
29   C:\Program Files\Common Files\Microsoft Shared\ink\ar-SA
30   C:\Program Files\Tanium\Tanium Server\plugins\console\Dashboards
31   C:\Program Files\Tanium\Tanium Server\CertificateBackup2014-11-17-11-17-33
32   C:\Program Files\Common Files\SpeechEngines\Microsoft
33   C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-09-16-20-44-23\modules
34   C:\Program Files\Common Files\Microsoft Shared\ink\ru-RU
35   C:\Program Files\Microsoft SQL Server\110\DTS\ForEachEnumerators\en
36   C:\Program Files\Tanium\Tanium Server\Apache24\htdocs\php\Auth
37   C:\Program Files\MSBuild\Microsoft\Windows Workflow Foundation\v3.0
38   C:\Program Files\MSBuild\Microsoft\Windows Workflow Foundation\v3.5
39   C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\2052_CHS_LP\x64
40   C:\Program Files\Common Files\Microsoft Shared\ink\fsdefinitions\keypad
41   C:\Program Files\Tanium\Tanium Server\plugins\console\InstallPlugin
42   C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\Log\20140910_112831\resources
43   C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\Bin
44   C:\Program Files\Microsoft SQL Server\110\DTS\ForEachEnumerators
45   C:\Program Files\Tanium\Tanium Server\Apache24\conf
46   C:\Program Files\MSBuild\Microsoft
47   C:\Program Files\Microsoft SQL Server\110\DTS\UpgradeMappings
48   C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-11-17-11-17-33\htdocs\php\Auth
49   C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-09-16-20-44-23\manual\style\css
50   C:\Program Files\Common Files\Microsoft Shared\ink
51   C:\Program Files\Common Files\Microsoft Shared\ink\sv-SE
52   C:\Program Files\VMware\VMware Tools\messages
53   C:\Program Files\Microsoft SQL Server\110\DTS\ForEachEnumerators\Resources
```

```
54   C:\Program Files\Common Files\Microsoft Shared\ink\uk-UA
55   C:\Program Files\Microsoft SQL Server\110\DTS\Binn\Resources\1033
56   C:\Program Files\Tanium\Tanium Server\Apache24\manual\platform
57   C:\Program Files\Microsoft SQL Server\110\KeyFile
58   C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\Resources\3082
59   C:\Program Files\Tanium\Tanium Server\CertificateBackup2014-09-16-20-44-23
60   C:\Program Files\Microsoft SQL Server\100\Setup Bootstrap\Release\x64\1033
61   C:\Program Files\Microsoft.NET\ADOMD.NET
62   C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\1028_CHT_LP\x64\1028\help
63   C:\Program Files\Common Files\Microsoft Shared\ink\sl-SI
64   C:\Program Files\Tanium\Tanium Server\plugins\console\UserGroups
65   C:\Program Files\Common Files\Microsoft Shared\ink\hu-HU
66   C:\Program Files\Common Files\System\en-US
67   C:\Program Files\Common Files\Microsoft Shared\ink\zh-TW
68   C:\Program Files\Common Files\Microsoft Shared\ink\zh-CN
69   C:\Program Files\Common Files\VMware\Drivers\video_wddm
70   C:\Program Files\Common Files\Microsoft Shared\ink\fi-FI
71   C:\Program Files\Common Files\Microsoft Shared
72   C:\Program Files\Microsoft SQL Server\110\SDK\Include
73   C:\Program Files\Common Files\Microsoft Shared\ink\da-DK
74   C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-09-16-20-44-23\icons\small
75   C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-11-17-11-17-33
76   C:\Program Files\Microsoft Visual Studio 10.0\Common7\IDE\PrivateAssemblies
77   C:\Program Files\Microsoft SQL Server\80
78   C:\Program Files\Microsoft SQL Server\90
79   C:\Program Files\Windows Mail
80   C:\Program Files\Common Files\VMware\Drivers\vmci\sockets\bin\win64
81   C:\Program Files\Common Files\VMware\Drivers\vmci\sockets\bin\win32
82   C:\Program Files\Common Files\Microsoft Shared\ink\fsdefinitions\oskmenu
83   C:\Program Files\Microsoft SQL Server\110\DTS\LogProviders
84   C:\Program Files\Microsoft SQL Server\100\Setup Bootstrap\Release\Resources\1033
85   C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\1049_RUS_LP\x64\1049
86   C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\Log\20140910_112604\Datastore_GlobalRules
87   C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-09-16-20-44-23\manual\images
88   C:\Program Files\Microsoft SQL Server\110\SDK
89   C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\1036_FRA_LP\x64
90   C:\Program Files\Windows NT\Accessories
91   C:\Program Files\Tanium\Tanium Server\content_public_keys
92   C:\Program Files\Windows NT\TableTextService\en-US
93   C:\Program Files\Tanium\Tanium Server\plugins\console\Manifest
94   C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-09-16-20-44-23\bin
95   C:\Program Files\Tanium\Tanium Server\Apache24\logs
96   C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\1033_ENU_LP
97   C:\Program Files\Tanium\Tanium Server\plugins\content
98   C:\Program Files\Reference Assemblies\Microsoft\Framework
99   C:\Program Files\Microsoft SQL Server\110\DTS\Connections\en
100  C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-11-17-11-17-33\icons\small
101  C:\Program Files\Common Files\VMware\Drivers\Virtual Printer\TPOG3\amd64
102  C:\Program Files\Microsoft Visual Studio 10.0\Common7\IDE\PrivateAssemblies\1033
103  C:\Program Files\Common Files\Microsoft Shared\ink\ko-KR
104  C:\Program Files\Tanium\Tanium Server\Apache24\manual\ssl
105  C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\1042_KOR_LP\x64
106  C:\Program Files\Tanium\Tanium Server\Apache24\manual\style\css
107  C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-11-17-11-17-33\manual\misc
108  C:\Program Files\Microsoft SQL Server\110\SDK\Lib\x64
109  C:\Program Files\Microsoft SQL Server\110\SDK\Lib\x86
110  C:\Program Files\Tanium\Tanium Server\plugins\console\lib
111  C:\Program Files\Common Files\Microsoft Shared\ink\it-IT
```

```
112  C:\Program Files\Microsoft.NET
113  C:\Program Files\Microsoft SQL Server\110\DTS\DataDumps
114  C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-11-17-11-17-33\conf
115  C:\Program Files\Internet Explorer\images
116  C:\Program Files\Windows NT
117  C:\Program Files\Microsoft SQL Server\110\COM\Resources\1033
118  C:\Program Files\Microsoft SQL Server\MSSQL11.SQLEXPRESS\MSSQL\JOBS
119  C:\Program Files\Tanium\Tanium Server\Apache24\htdocs
120  C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\1041_JPN_LP
121  C:\Program Files\Tanium\Tanium Server\php55\extras
122  C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\1031_DEU_LP\x64\1031\help
123  C:\Program Files\Microsoft SQL Server\100\Setup Bootstrap
124  C:\Program Files\Common Files\SpeechEngines\Microsoft\TTS20
125  C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-09-16-20-44-23
126  C:\Program Files\Common Files\Microsoft Shared\Triedit
127  C:\Program Files\Microsoft.NET\ADOMD.NET\110
128  C:\Program Files\Microsoft SQL Server\110\Shared
129  C:\Program Files\Microsoft SQL Server\110\Tools\Binn
130  C:\Program Files\Microsoft Help Viewer
131  C:\Program Files\Microsoft SQL Server\100\Setup Bootstrap\Release\x64\Patch
132  C:\Program Files\Tanium\Tanium Server\Apache24\bin\iconv
133  C:\Program Files\Common Files\VMware\Drivers\memctl
134  C:\Program Files\Tanium\Tanium Server\plugins\console
135  C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-09-16-20-44-23\conf\original
136  C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-09-16-20-44-23\htdocs\php
137  C:\Program Files\Microsoft SQL Server\90\License Terms
138  C:\Program Files\Microsoft SQL Server\100\Setup Bootstrap\Release\Resources
139  C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\x64\pt
140  C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\x64\ru
141  C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-11-17-11-17-33\lib
142  C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\x64\it
143  C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\x64\ko
144  C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\x64\ja
145  C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\x64\es
146  C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\x64\de
147  C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\x64\fr
148  C:\Program Files\Common Files\Microsoft Shared\ink\he-IL
149  C:\Program Files\Common Files\Microsoft Shared\ink\ro-RO
150  C:\Program Files\Common Files\VMware\Drivers\pvscsi
151  C:\Program Files\Microsoft Visual Studio 10.0\Common7\Packages
152  C:\Program Files\Microsoft Visual Studio 10.0\Common7
153  C:\Program Files\Common Files\Services
154  C:\Program Files\Common Files\Microsoft Shared\ink\fsdefinitions\oskpred
155  C:\Program Files\Microsoft SQL Server\110\SDK\Lib
156  C:\Program Files\Microsoft SQL Server\110\DTS\PipelineComponents\Resources\1033
157  C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-09-16-20-44-23\manual\misc
158  C:\Program Files\Tanium\Tanium Server\Apache24\manual\misc
159  C:\Program Files\Common Files\SpeechEngines\Microsoft\TTS20\en-US
160  C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-11-17-11-17-33\modules
161  C:\Program Files\Microsoft SQL Server\110\DTS\Connections
162  C:\Program Files\Tanium\Tanium Server\Downloads\URLCache
163  C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\1046_PTB_LP
164  C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-09-16-20-44-23\manual\rewrite
165  C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-11-17-11-17-33\manual\images
166  C:\Program Files\Common Files\VMware\Drivers\vmci\device
167  C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-11-17-11-17-33\manual\rewrite
168  C:\Program Files\Common Files
169  C:\Program Files\Tanium\Tanium Server\Apache24\manual
```

```
170  C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-09-16-20-44-23\manual\platform
171  C:\Program Files\Tanium\Tanium Server\Apache24\conf\extra
172  C:\Program Files\Common Files\VMware\Drivers\vmci
173  C:\Program Files\Common Files\System\msadc\en-US
174  C:\Program Files\Common Files\System
175  C:\Program Files\Windows NT\Accessories\en-US
176  C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\1036_FRA_LP\x64\1036
177  C:\Program Files\Microsoft SQL Server\MSSQL11.SQLEXPRESS\MSSQL\Binn\Resources
178  C:\Program Files\Tanium\Tanium Server\plugins\console\RegistrySetting
179  C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\1046_PTB_LP\x64\1046
180  C:\Program Files\Tanium\Tanium Server\Apache24\manual\rewrite
181  C:\Program Files\VMware\VMware Tools
182  C:\Program Files\Common Files\Microsoft Shared\ink\fsdefinitions\numbers
183  C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\1049_RUS_LP\x64
184  C:\Program Files\Microsoft SQL Server\MSSQL11.SQLEXPRESS\MSSQL\Log
185  C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-09-16-20-44-23\lib
186  C:\Program Files\Windows NT\TableTextService
187  C:\Program Files\Microsoft SQL Server\MSSQL11.SQLEXPRESS\MSSQL\Binn\Resources\1055
188  C:\Program Files\Microsoft SQL Server\MSSQL11.SQLEXPRESS\MSSQL\Binn\Resources\1053
189  C:\Program Files\Microsoft SQL Server\MSSQL11.SQLEXPRESS\MSSQL\Binn\Resources\1049
190  C:\Program Files\Microsoft SQL Server\MSSQL11.SQLEXPRESS\MSSQL\Binn\Resources\1041
191  C:\Program Files\Microsoft SQL Server\MSSQL11.SQLEXPRESS\MSSQL\Binn\Resources\1040
192  C:\Program Files\Microsoft SQL Server\MSSQL11.SQLEXPRESS\MSSQL\Binn\Resources\1043
193  C:\Program Files\Microsoft SQL Server\MSSQL11.SQLEXPRESS\MSSQL\Binn\Resources\1042
194  C:\Program Files\Microsoft SQL Server\MSSQL11.SQLEXPRESS\MSSQL\Binn\Resources\1045
195  C:\Program Files\Microsoft SQL Server\MSSQL11.SQLEXPRESS\MSSQL\Binn\Resources\1044
196  C:\Program Files\Microsoft SQL Server\MSSQL11.SQLEXPRESS\MSSQL\Binn\Resources\1046
197  C:\Program Files\Microsoft SQL Server\MSSQL11.SQLEXPRESS\MSSQL\Binn\Resources\1038
198  C:\Program Files\Microsoft SQL Server\MSSQL11.SQLEXPRESS\MSSQL\Binn\Resources\1035
199  C:\Program Files\Microsoft SQL Server\MSSQL11.SQLEXPRESS\MSSQL\Binn\Resources\1036
200  C:\Program Files\Microsoft SQL Server\MSSQL11.SQLEXPRESS\MSSQL\Binn\Resources\1030
201  C:\Program Files\Microsoft SQL Server\MSSQL11.SQLEXPRESS\MSSQL\Binn\Resources\1031
202  C:\Program Files\Microsoft SQL Server\MSSQL11.SQLEXPRESS\MSSQL\Binn\Resources\1032
203  C:\Program Files\Microsoft SQL Server\MSSQL11.SQLEXPRESS\MSSQL\Binn\Resources\1033
204  C:\Program Files\Microsoft SQL Server\MSSQL11.SQLEXPRESS\MSSQL\Binn\Resources\1029
205  C:\Program Files\Microsoft SQL Server\MSSQL11.SQLEXPRESS\MSSQL\Binn\Resources\1028
206  C:\Program Files\Tanium\Tanium Server\Apache24\htdocs\console
207  C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\1042_KOR_LP\x64\1042
208  C:\Program Files\Tanium\Tanium Server\Apache24\error
209  C:\Program Files\Common Files\Microsoft Shared\ink\nb-NO
210  C:\Program Files\Tanium\Tanium Server\Apache24\manual\mod
211  C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\1041_JPN_LP\x64
212  C:\Program Files\Common Files\Microsoft Shared\ink\lv-LV
213  C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-09-16-20-44-23\manual
214  C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\1033_ENU_LP\x64\1033
215  C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-09-16-20-44-23\conf\original\extra
216  C:\Program Files\Common Files\Microsoft Shared\ink\fsdefinitions\auxpad
217  C:\Program Files\Common Files\Microsoft Shared\TextConv
218  C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-09-16-20-44-23\manual\developer
219  C:\Program Files\Common Files\Microsoft Shared\MSInfo\en-US
220  C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\3082_ESN_LP\x64\3082
221  C:\Program Files\Common Files\Microsoft Shared\ink\nl-NL
222  C:\Program Files\Tanium
223  C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-11-17-11-17-33\manual\howto
224  C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-11-17-11-17-33\include
225  C:\Program Files\Reference Assemblies\Microsoft\Framework\v3.5\RedistList
226  C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\Log\20140910_112532\Datastore_LandingPage
227  C:\Program Files\Microsoft SQL Server\100\KeyFile\1033
```

```
228  C:\Program Files\Microsoft SQL Server\110\Tools\Binn\Resources\1033
229  C:\Program Files\Tanium\Tanium Server\Downloads\Cache
230  C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-11-17-11-17-33\manual\style\latex
231  C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\3082_ESN_LP
232  C:\Program Files\Tanium\Tanium Server\php55\dev
233  C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-11-17-11-17-33\bin\iconv
234  C:\Program Files\VMware\VMware Tools\messages\zh_CN
235  C:\Program Files\Tanium\Tanium Server\Apache24\manual\vhosts
236  C:\Program Files\Common Files\VMware\Drivers\vmci\sockets
237  C:\Program Files\Microsoft SQL Server\90\Shared\Resources\1033
238  C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-09-16-20-44-23\conf
239  C:\Program Files\Common Files\VMware
240  C:\Program Files\Common Files\System\msadc
241  C:\Program Files\Microsoft SQL Server\110\Tools
242  C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-11-17-11-17-33\htdocs\php
243  C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\1040_ITA_LP
244  C:\Program Files\Common Files\Microsoft Shared\ink\fr-FR
245  C:\Program Files\Common Files\VMware\Drivers\vss
246  C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-11-17-11-17-33\bin
247  C:\Program Files\Common Files\Microsoft Shared\ink\tr-TR
248  C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-11-17-11-17-33\manual\programs
249  C:\Program Files\Common Files\Microsoft Shared\VC
250  C:\Program Files\Tanium\Tanium Server\php55\ext
251  C:\Program Files\Common Files\Microsoft Shared\WF
252  C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-09-16-20-44-23\manual\ssl
253  C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-11-17-11-17-33\htdocs
254  C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-11-17-11-17-33\htdocs\console
255  C:\Program Files\Microsoft SQL Server\MSSQL11.SQLEXPRESS\MSSQL\Binn\Templates
256  C:\Program Files\Tanium\Tanium Server\plugins
257  C:\Program Files\Tanium\Tanium Server\Apache24\icons\small
258  C:\Program Files\Microsoft SQL Server\110\Shared\en
259  C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-09-16-20-44-23\htdocs\php\Auth
260  C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-09-16-20-44-23\error\include
261  C:\Program Files\Microsoft SQL Server\100\Setup Bootstrap\Release\x64\Help
262  C:\Program Files\Microsoft Help Viewer\v1.0\Microsoft Help Viewer 1.1
263  Windows Only
264  C:\Program Files\Microsoft SQL Server\110\Tools\Binn\ManagementStudio
265  C:\Program Files\Common Files\Microsoft Shared\ink\fsdefinitions\symbols
266  C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\1036_FRA_LP\x64\1036\help
267  C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-11-17-11-17-33\manual
268  C:\Program Files\Common Files\System\Ole DB\en-US
269  C:\Program Files\Microsoft SQL Server\110\Tools\Binn\ManagementStudio\Extensions
270  C:\Program Files\Microsoft SQL Server\80\Tools\Binn
271  C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\2052_CHS_LP
272  C:\Program Files\Common Files\Microsoft Shared\ink\lt-LT
273  C:\Program Files\Microsoft SQL Server\MSSQL11.SQLEXPRESS\MSSQL\Binn
274  C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\x64
275  C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-09-16-20-44-23\htdocs
276  C:\Program Files\Microsoft SQL Server\100\KeyFile
277  C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-11-17-11-17-33\manual\style
278  C:\Program Files\Microsoft SQL Server\MSSQL11.SQLEXPRESS\MSSQL\Install
279  C:\Program Files\Common Files\Microsoft Shared\ink\et-EE
280  C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\1028_CHT_LP
281  C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\1040_ITA_LP\x64\1040
282  C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\1028_CHT_LP\x64
283  C:\Program Files\Common Files\VMware\Drivers\Virtual Printer\TPOGPS
284  C:\Program Files\Common Files\Microsoft Shared\ink\cs-CZ
285  C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\2052_CHS_LP\x64\2052\help
```

```
286  C:\Program Files\VMware
287  C:\Program Files\Microsoft SQL Server\110\Shared\VS2008
288  C:\Program Files\Microsoft Visual Studio 10.0\Common7\Packages\Debugger
289  C:\Program Files\Common Files\VMware\Drivers\mouse
290  C:\Program Files\Common Files\VMware\Drivers\vmci\sockets\bin
291  C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-09-16-20-44-23\bin\iconv
292  C:\Program Files\Common Files\Microsoft Shared\ink\en-US
293  C:\Program Files\Microsoft SQL Server\MSSQL11.SQLEXPRESS\MSSQL\Backup
294  C:\Program Files\Tanium\Tanium Server\VB
295  C:\Program Files\Microsoft SQL Server\110\DTS\ForEachEnumerators\Resources\1033
296  C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-11-17-11-17-33\manual\vhosts
297  C:\Program Files\Common Files\Microsoft Shared\ink\bg-BG
298  C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-11-17-11-17-33\manual\ssl
299  C:\Program Files\Tanium\Tanium Server\Apache24\bin
300  C:\Program Files\Common Files\System\Ole DB
301  C:\Program Files\Tanium\Tanium Server\Apache24\manual\faq
302  C:\Program Files\Microsoft SQL Server\MSSQL11.SQLEXPRESS
303  C:\Program Files\Common Files\VMware\Drivers\audio
304  C:\Program Files\Microsoft SQL Server\110\DTS\Binn\Resources
305  C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\1041_JPN_LP\x64\1041
306  C:\Program Files\Reference Assemblies\Microsoft\Framework\v3.0\RedistList
307  C:\Program Files\Tanium\Tanium Server\Downloads
308  C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\1049_RUS_LP\x64\1049\help
309  C:\Program Files\Microsoft Visual Studio 10.0\Common7\Packages\Debugger\x86
310  C:\Program Files\Microsoft Visual Studio 10.0\Common7\Packages\Debugger\X64
311  C:\Program Files\MSBuild\Microsoft\Windows Workflow Foundation
312  C:\Program Files\Microsoft SQL Server\100\Shared
313  C:\Program Files\Internet Explorer\SIGNUP
314  C:\Program Files\Common Files\Microsoft Shared\ink\es-ES
315  C:\Program Files\Tanium\Tanium Server\Support
316  C:\Program Files\Microsoft SQL Server\110\DTS\Binn
317  C:\Program Files\Common Files\Microsoft Shared\MSInfo
318  C:\Program Files\Reference Assemblies
319  C:\Program Files\Microsoft SQL Server\110\Shared\RsFxInstall
320  C:\Program Files\Microsoft Help Viewer\v1.0\CatalogInfo
321  C:\Program Files\Microsoft SQL Server\110\DTS\MappingFiles
322  C:\Program Files\Microsoft SQL Server\110\DTS\PipelineComponents\Resources
323  C:\Program Files\Common Files\Microsoft Shared\WF\amd64
324  C:\Program Files\Tanium\Tanium Server\plugins\console\SigVerifier
325  C:\Program Files\Tanium\Tanium Server\plugins\console\DashboardGroups
326  C:\Program Files\Microsoft SQL Server\80\Tools
327  C:\Program Files\Microsoft SQL Server\MSSQL11.SQLEXPRESS\MSSQL\Template Data
328  C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-09-16-20-44-23\icons
329  C:\Program Files\Common Files\Microsoft Shared\ink\de-DE
330  C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\1031_DEU_LP\x64\1031
331  C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\1042_KOR_LP
332  C:\Program Files\Microsoft Visual Studio 10.0\Common7\IDE
333  C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\1033_ENU_LP\x64\1033\help
334  C:\Program Files\Common Files\Microsoft Shared\ink\fsdefinitions\main
335  C:\Program Files\Microsoft Help Viewer\v1.0\StopWords
336  C:\Program Files\Microsoft SQL Server\110\Tools\Binn\ManagementStudio\Extensions\Application
337  C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap
338  C:\Program Files\Microsoft SQL Server\MSSQL11.SQLEXPRESS\MSSQL\repldata
339  C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\x64\zh-CHT
340  C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\x64\zh-CHS
341  C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-09-16-20-44-23\manual\vhosts
342  C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\1042_KOR_LP\x64\1042\help
343  C:\Program Files\Microsoft SQL Server\110\DTS\Tasks\en
```

```
344  C:\Program Files\Common Files\SpeechEngines
345  C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-09-16-20-44-23\logs
346  C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-09-16-20-44-23\manual\mod
347  C:\Program Files\VMware\VMware Tools\Drivers\hgfs
348  C:\Program Files\Tanium\Tanium Server\Apache24\conf\original
349  C:\Program Files\Uninstall Information
350  C:\Program Files\Reference Assemblies\Microsoft\Framework\v3.5
351  C:\Program Files\Reference Assemblies\Microsoft\Framework\v3.0
352  C:\Program Files\Microsoft Visual Studio 10.0\Common7\IDE\Xml
353  C:\Program Files\Microsoft SQL Server\110\DTS\PipelineComponents
354  C:\Program Files\Microsoft SQL Server\90\Shared\Resources
355  C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\1046_PTB_LP\x64\1046\help
356  C:\Program Files\Tanium\Tanium Server\Apache24\include
357  C:\Program Files\Tanium\Tanium Server\plugins\console\GroupFiliters
358  C:\Program Files\VMware\VMware Tools\Drivers
359  C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\1041_JPN_LP\x64\1041\help
360  C:\Program Files\Tanium\Tanium Server\Downloads\tmp
361  C:\Program Files\Microsoft SQL Server\100\Setup Bootstrap\Release
362  C:\Program Files\Tanium\Tanium Server\Apache24\conf\original\extra
363  C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-11-17-11-17-33\manual\style\scripts
364  C:\Program Files\Common Files\Microsoft Shared\ink\sr-Latn-CS
365  C:\Program Files\Common Files\Microsoft Shared\ink\fsdefinitions\osknumpad
366  C:\Program Files\Microsoft SQL Server\110\License Terms
367  C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012
368  C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\1031_DEU_LP\x64
369  C:\Program Files\Common Files\VMware\Drivers\vmxnet
370  C:\Program Files\Tanium\Tanium Server\Strings
371  C:\Program Files\MSBuild
372  C:\Program Files\Microsoft SQL Server\110\COM\Resources
373  C:\Program Files\Common Files\VMware\Drivers\Virtual Printer\TPOGPS\amd64
374  C:\Program Files\Microsoft SQL Server\80\COM
375  C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-09-16-20-44-23\htdocs\console\history
376  C:\Program Files\Tanium\Tanium Server\Apache24\manual\howto
377  C:\Program Files\Microsoft SQL Server\110\Shared\Resources\1033
378  C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-09-16-20-44-23\conf\extra
379  C:\Program Files\Common Files\Microsoft Shared\MSEnv
380  C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\2052_CHS_LP\x64\2052
381  C:\Program Files\Common Files\VMware\Drivers\Virtual Printer
382  C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-11-17-11-17-33\htdocs\console\history
383  C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\1028_CHT_LP\x64\1028
384  C:\Program Files\Microsoft SQL Server\110\Shared\VS2008\1033
385  C:\Program Files\Common Files\Microsoft Shared\ink\pt-BR
386  C:\Program Files\Common Files\Microsoft Shared\ink\pt-PT
387  C:\Program Files\Common Files\System\ado
388  C:\Program Files\Microsoft SQL Server\110\KeyFile\1033
389  C:\Program Files\Tanium\Tanium Server\SOAPUpload
390  C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\Resources\2052
391  C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\Log\20140910_112604\resources
392  C:\Program Files\Microsoft SQL Server\MSSQL11.SQLEXPRESS\MSSQL\DATA
393  C:\Program Files\Tanium\Tanium Server\php55\extras\ssl
394  C:\Program Files\Common Files\Microsoft Shared\ink\el-GR
395  C:\Program Files\VMware\VMware Tools\win32
396  C:\Program Files\VMware\VMware Tools\win64
397  C:\Program Files\Microsoft SQL Server\110\Shared\Resources
398  C:\Program Files\Internet Explorer
399  C:\Program Files\Tanium\Tanium Server\Apache24\icons
400  C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\1033_ENU_LP\x64
401  C:\Program Files\Microsoft SQL Server\MSSQL11.SQLEXPRESS\MSSQL
```

1.6. pytan package   **79**

```
402   C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\1031_DEU_LP
403   C:\Program Files\Tanium\Tanium Server\Apache24\manual\programs
404   C:\Program Files\Common Files\VMware\Drivers\vmxnet3
405   C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\1049_RUS_LP
406   C:\Program Files\VMware\VMware Tools\Drivers\hgfs\wow64
407   C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\Log
408   C:\Program Files\Microsoft SQL Server\90\License Terms\1033
409   C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-11-17-11-17-33\logs
410   C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-11-17-11-17-33\manual\faq
411   C:\Program Files\Tanium\Tanium Server\Suppot_patch1
412   C:\Program Files\Common Files\Microsoft Shared\ink\fsdefinitions\web
413   C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-11-17-11-17-33\cgi-bin
414   C:\Program Files\Tanium\Tanium Server\Apache24\manual\developer
415   C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\Resources\1036
416   C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\Resources\1033
417   C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\Resources\1031
418   C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\Resources\1028
419   C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\Resources\1049
420   C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\Resources\1046
421   C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\Resources\1042
422   C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\Resources\1041
423   C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\Resources\1040
424   C:\Program Files\Microsoft SQL Server\100\Setup Bootstrap\Release\x64
425   C:\Program Files\Tanium\Tanium Server\Apache24\manual\style\latex
426   C:\Program Files\Tanium\Tanium Server
427   C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-09-16-20-44-23\htdocs\console
428   C:\Program Files\Tanium\Tanium Server\http
429   C:\Program Files\Common Files\Microsoft Shared\ink\ja-JP
430   C:\Program Files\Microsoft SQL Server\110\DTS\Packages
431   C:\Program Files\Common Files\Microsoft Shared\ink\sk-SK
432   C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-11-17-11-17-33\manual\style\css
433   C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-11-17-11-17-33\conf\original
434   C:\Program Files\Tanium\Tanium Server\Apache24\htdocs\php
435   C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-09-16-20-44-23\manual\howto
436   C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-09-16-20-44-23\manual\style\latex
437   C:\Program Files\Common Files\Microsoft Shared\ink\hr-HR
438   C:\Program Files\Common Files\VMware\Drivers
439   C:\Program Files\Tanium\Tanium Server\Apache24\lib
440   C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\Log\20140910_112532
441   C:\Program Files\Microsoft Help Viewer\v1.0
442   C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-11-17-11-17-33\conf\extra
443   C:\Program Files\Tanium\Tanium Server\Apache24
444   C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-09-16-20-44-23\manual\style\scripts
445   C:\Program Files\Common Files\Microsoft Shared\VGX
446   C:\Program Files\Microsoft SQL Server\110\DTS\ProviderDescriptors
447   C:\Program Files\Microsoft SQL Server\110\COM\en
448   C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-09-16-20-44-23\manual\faq
449   C:\Program Files\Tanium\Tanium Server\Apache24\manual\style\scripts
450   C:\Program Files\Common Files\Microsoft Shared\Triedit\en-US
451   C:\Program Files\Microsoft SQL Server\100\Setup Bootstrap\Release\x64\Help\1033
452   C:\Program Files\Microsoft SQL Server\110\COM
453   C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\1046_PTB_LP\x64
454   C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\Log\20140910_112831\Datastore_GlobalRules
455   C:\Program Files\Common Files\Microsoft Shared\TextConv\en-US
456   C:\Program Files\VMware\VMware Tools\plugins
457   C:\Program Files\Microsoft SQL Server\110\DTS
458   C:\Program Files\Tanium\Tanium Server\plugins\console\SavedQuestions
459   C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-11-17-11-17-33\error\include
```

```
460  C:\Program Files\Common Files\System\ado\en-US
461  C:\Program Files\Tanium\Tanium Server\Apache24\cgi-bin
462  C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\Log\20140910_112604
463  C:\Program Files\VMware\VMware Tools\plugins\vmusr
464  C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\Log\20140910_112831\Datastore
465  C:\Program Files\Microsoft SQL Server\MSSQL11.SQLEXPRESS\MSSQL\Binn\DllTmp64
466  C:\Program Files\Microsoft SQL Server\MSSQL11.SQLEXPRESS\MSSQL\Binn\DllTmp32
467  C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-09-16-20-44-23\manual\programs
468  C:\Program Files\Microsoft SQL Server\110\Tools\Binn\Resources
469  C:\Program Files\Tanium\Tanium Server\php55
470  C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-09-16-20-44-23\manual\style
471  C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\1040_ITA_LP\x64
472  C:\Program Files\Reference Assemblies\Microsoft
473  C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-09-16-20-44-23\include
474  C:\Program Files\Tanium\Tanium Server\Apache24\manual\images
475  C:\Program Files\Common Files\Microsoft Shared\ink\fsdefinitions
476  C:\Program Files\Microsoft SQL Server\110\SDK\Assemblies\en
477  C:\Program Files\Tanium\Tanium Server\Logs
478  C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-11-17-11-17-33\manual\mod
479  C:\Program Files\Common Files\VMware\Drivers\Virtual Printer\TPOG3
480  C:\Program Files\Microsoft SQL Server\110
481  C:\Program Files\Microsoft SQL Server\100
482  C:\Program Files\Tanium\Tanium Server\Apache24\modules
483  C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-11-17-11-17-33\manual\platform
484  C:\Program Files\Microsoft Visual Studio 10.0
485  C:\Program Files\Microsoft SQL Server\MSSQL11.SQLEXPRESS\MSSQL\Binn\Resources\3082
486  C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\Log\20140910_112831
487  C:\Program Files\VMware\VMware Tools\plugins\common
488  C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\Log\20140910_112804
489  C:\Program Files\Common Files\Microsoft Shared\ink\th-TH
490  C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-11-17-11-17-33\icons
491  C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\Log\20140910_112831\Datastore_ComponentUpd
492  C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-11-17-11-17-33\error
493  C:\Program Files\Microsoft SQL Server
494  C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-09-16-20-44-23\error
495  C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\3082_ESN_LP\x64
496  C:\Program Files\Common Files\Microsoft Shared\SQL Debugging
497  C:\Program Files\Tanium\Tanium Server\Apache24\error\include
498  C:\Program Files\Microsoft SQL Server\110\SDK\Assemblies
499  C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\x64\Patch
500  C:\Program Files\Microsoft Help Viewer\v1.0\en
501  C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\3082_ESN_LP\x64\3082\help
502  C:\Program Files\Microsoft SQL Server\90\Shared
503  C:\Program Files\Microsoft SQL Server\MSSQL11.SQLEXPRESS\MSSQL\Binn\Resources\2052
504  C:\Program Files\Microsoft SQL Server\MSSQL11.SQLEXPRESS\MSSQL\Binn\Resources\2070
505  C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-11-17-11-17-33\conf\original\extra
506  C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-11-17-11-17-33\manual\developer
507  C:\Program Files\Common Files\Microsoft Shared\ink\pl-PL
508  C:\Program Files\Common Files\SpeechEngines\Microsoft\TTS20\en-US\enu-dsk
509  C:\Program Files\Common Files\Microsoft Shared\Stationery
510  C:\Program Files\Common Files\Microsoft Shared\VS7Debug\1033
511  C:\Program Files\Microsoft SQL Server\100\Setup Bootstrap\Bin
512  C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\Resources
513  C:\Program Files\Microsoft SQL Server\110\Shared\ErrorDumps
514  C:\Program Files\Internet Explorer\en-US
515  C:\Program Files\VMware\VMware Tools\messages\it
516  C:\Program Files\VMware\VMware Tools\messages\ja
517  C:\Program Files\VMware\VMware Tools\messages\ko
```

```
518   C:\Program Files\VMware\VMware Tools\messages\de
519   C:\Program Files\VMware\VMware Tools\messages\es
520   C:\Program Files\VMware\VMware Tools\messages\fr
521   C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\1036_FRA_LP
522   C:\Program Files\Microsoft SQL Server\110\DTS\Tasks
```

Ask manual human question sensor without parameters and supplied parameters

Ask a manual question using human strings by referencing the name of a single sensor that does NOT take parameters, but supplying parameters anyways (which will be ignored since the sensor does not take parameters).

No sensor filters, sensor filter options, question filters, or question options supplied.

Example Python Code

```python
1    # Path to lib directory which contains pytan package
2    PYTAN_LIB_PATH = '../lib'
3
4    # connection info for Tanium Server
5    USERNAME = "Tanium User"
6    PASSWORD = "T@n!um"
7    HOST = "172.16.31.128"
8    PORT = "444"
9
10   # Logging conrols
11   LOGLEVEL = 2
12   DEBUGFORMAT = False
13
14   import sys, tempfile
15   sys.path.append(PYTAN_LIB_PATH)
16
17   import pytan
18   handler = pytan.Handler(
19       username=USERNAME,
20       password=PASSWORD,
21       host=HOST,
22       port=PORT,
23       loglevel=LOGLEVEL,
24       debugformat=DEBUGFORMAT,
25   )
26
27   print handler
28
29   # setup the arguments for the handler method
30   kwargs = {}
31   kwargs["sensors"] = u'Computer Name{fake=Dweedle}'
32   kwargs["qtype"] = u'manual_human'
33
34   # call the handler with the ask method, passing in kwargs for arguments
35   response = handler.ask(**kwargs)
36   import pprint, io
37
38   print ""
39   print "Type of response: ", type(response)
40
41   print ""
```

```
42  print "Pretty print of response:"
43  print pprint.pformat(response)
44
45  print ""
46  print "Equivalent Question if it were to be asked in the Tanium Console: "
47  print response['question_object'].query_text
48
49  # create an IO stream to store CSV results to
50  out = io.BytesIO()
51
52  # call the write_csv() method to convert response to CSV and store it in out
53  response['question_results'].write_csv(out, response['question_results'])
54
55  print ""
56  print "CSV Results of response: "
57  print out.getvalue()
```

Output from Python Code

```
1   Handler for Session to 172.16.31.128:444, Authenticated: True, Version: 6.2.314.3258
2   2014-12-07 01:03:18,079 INFO     question_progress: Results 0% (Get Computer Name from all machines)
3   2014-12-07 01:03:23,092 INFO     question_progress: Results 0% (Get Computer Name from all machines)
4   2014-12-07 01:03:28,105 INFO     question_progress: Results 100% (Get Computer Name from all machine
5
6   Type of response:  <type 'dict'>
7
8   Pretty print of response:
9   {'question_object': <taniumpy.object_types.question.Question object at 0x10205bd90>,
10   'question_results': <taniumpy.object_types.result_set.ResultSet object at 0x102271450>}
11
12  Equivalent Question if it were to be asked in the Tanium Console:
13  Get Computer Name from all machines
14
15  CSV Results of response:
16  Computer Name
17  Casus-Belli.local
18  jtanium1.localdomain
```

Ask manual human question multiple sensors with parameters and some supplied parameters

Ask a manual question using human strings by referencing the name of multiple sensors, one that takes parameters, but supplying only two of the four parameters that are used by the sensor (and letting pytan automatically determine the appropriate default value for those parameters which require a value and none was supplied), and one that does not take parameters.

No sensor filters, question filters, or question options supplied.

Example Python Code

```
1   # Path to lib directory which contains pytan package
2   PYTAN_LIB_PATH = '../lib'
3
4   # connection info for Tanium Server
5   USERNAME = "Tanium User"
```

```
6   PASSWORD = "T@n!um"
7   HOST = "172.16.31.128"
8   PORT = "444"
9
10  # Logging conrols
11  LOGLEVEL = 2
12  DEBUGFORMAT = False
13
14  import sys, tempfile
15  sys.path.append(PYTAN_LIB_PATH)
16
17  import pytan
18  handler = pytan.Handler(
19      username=USERNAME,
20      password=PASSWORD,
21      host=HOST,
22      port=PORT,
23      loglevel=LOGLEVEL,
24      debugformat=DEBUGFORMAT,
25  )
26
27  print handler
28
29  # setup the arguments for the handler method
30  kwargs = {}
31  kwargs["sensors"] = [u'Folder Name Search with RegEx Match{dirname=Program Files,regex=Microsoft.*}'
32   u'Computer Name']
33  kwargs["qtype"] = u'manual_human'
34
35  # call the handler with the ask method, passing in kwargs for arguments
36  response = handler.ask(**kwargs)
37  import pprint, io
38
39  print ""
40  print "Type of response: ", type(response)
41
42  print ""
43  print "Pretty print of response:"
44  print pprint.pformat(response)
45
46  print ""
47  print "Equivalent Question if it were to be asked in the Tanium Console: "
48  print response['question_object'].query_text
49
50  # create an IO stream to store CSV results to
51  out = io.BytesIO()
52
53  # call the write_csv() method to convert response to CSV and store it in out
54  response['question_results'].write_csv(out, response['question_results'])
55
56  print ""
57  print "CSV Results of response: "
58  print out.getvalue()
```

Output from Python Code

```
1   Handler for Session to 172.16.31.128:444, Authenticated: True, Version: 6.2.314.3258
2   2014-12-07 01:03:28,207 INFO     question_progress: Results 0% (Get Computer Name from all machines)
3   2014-12-07 01:03:33,226 INFO     question_progress: Results 0% (Get Computer Name from all machines)
4   2014-12-07 01:03:38,242 INFO     question_progress: Results 0% (Get Computer Name from all machines)
5   2014-12-07 01:03:43,258 INFO     question_progress: Results 0% (Get Computer Name from all machines)
6   2014-12-07 01:03:48,279 INFO     question_progress: Results 0% (Get Computer Name from all machines)
7   2014-12-07 01:03:53,296 INFO     question_progress: Results 0% (Get Computer Name from all machines)
8   2014-12-07 01:03:58,313 INFO     question_progress: Results 0% (Get Computer Name from all machines)
9   2014-12-07 01:04:03,331 INFO     question_progress: Results 0% (Get Computer Name from all machines)
10  2014-12-07 01:04:08,345 INFO     question_progress: Results 0% (Get Computer Name from all machines)
11  2014-12-07 01:04:13,359 INFO     question_progress: Results 0% (Get Computer Name from all machines)
12  2014-12-07 01:04:18,378 INFO     question_progress: Results 0% (Get Computer Name from all machines)
13  2014-12-07 01:04:23,391 INFO     question_progress: Results 0% (Get Computer Name from all machines)
14  2014-12-07 01:04:28,407 INFO     question_progress: Results 0% (Get Computer Name from all machines)
15  2014-12-07 01:04:33,425 INFO     question_progress: Results 0% (Get Computer Name from all machines)
16  2014-12-07 01:04:38,442 INFO     question_progress: Results 0% (Get Computer Name from all machines)
17  2014-12-07 01:04:43,460 INFO     question_progress: Results 0% (Get Computer Name from all machines)
18  2014-12-07 01:04:48,478 INFO     question_progress: Results 100% (Get Computer Name from all machine
19
20  Type of response:  <type 'dict'>
21
22  Pretty print of response:
23  {'question_object': <taniumpy.object_types.question.Question object at 0x10214d550>,
24   'question_results': <taniumpy.object_types.result_set.ResultSet object at 0x1022e14d0>}
25
26  Equivalent Question if it were to be asked in the Tanium Console:
27  Get Computer Name from all machines
28
29  CSV Results of response:
30  Computer Name,"Folder Name Search with RegEx Match[No, Program Files, No, ]"
31  Casus-Belli.local,Windows Only
32  jtanium1.localdomain,"C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-09-16-20-44-23\cgi-bin
33  C:\Program Files\VMware\VMware Tools\plugins\vmsvc
34  C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\1040_ITA_LP\x64\1040\help
35  C:\Program Files\Common Files\Microsoft Shared\VS7Debug
36  C:\Program Files\Tanium\Tanium Server\Apache24\manual\style
37  C:\Program Files\Tanium\Tanium Server\Apache24\htdocs\console\history
38  C:\Program Files\Common Files\VMware\Drivers\vmci\sockets\include
39  C:\Program Files\Common Files\Microsoft Shared\ink\ar-SA
40  C:\Program Files\Tanium\Tanium Server\plugins\console\Dashboards
41  C:\Program Files\Tanium\Tanium Server\CertificateBackup2014-11-17-11-17-33
42  C:\Program Files\Common Files\SpeechEngines\Microsoft
43  C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-09-16-20-44-23\modules
44  C:\Program Files\Common Files\Microsoft Shared\ink\ru-RU
45  C:\Program Files\Microsoft SQL Server\110\DTS\ForEachEnumerators\en
46  C:\Program Files\Tanium\Tanium Server\Apache24\htdocs\php\Auth
47  C:\Program Files\MSBuild\Microsoft\Windows Workflow Foundation\v3.0
48  C:\Program Files\MSBuild\Microsoft\Windows Workflow Foundation\v3.5
49  C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\2052_CHS_LP\x64
50  C:\Program Files\Common Files\Microsoft Shared\ink\fsdefinitions\keypad
51  C:\Program Files\Tanium\Tanium Server\plugins\console\InstallPlugin
52  C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\Log\20140910_112831\resources
53  C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\Bin
54  C:\Program Files\Microsoft SQL Server\110\DTS\ForEachEnumerators
55  C:\Program Files\Tanium\Tanium Server\Apache24\conf
56  C:\Program Files\MSBuild\Microsoft
57  C:\Program Files\Microsoft SQL Server\110\DTS\UpgradeMappings
58  C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-11-17-11-17-33\htdocs\php\Auth
```

```
59   C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-09-16-20-44-23\manual\style\css
60   C:\Program Files\Common Files\Microsoft Shared\ink
61   C:\Program Files\Common Files\Microsoft Shared\ink\sv-SE
62   C:\Program Files\VMware\VMware Tools\messages
63   C:\Program Files\Microsoft SQL Server\110\DTS\ForEachEnumerators\Resources
64   C:\Program Files\Common Files\Microsoft Shared\ink\uk-UA
65   C:\Program Files\Microsoft SQL Server\110\DTS\Binn\Resources\1033
66   C:\Program Files\Tanium\Tanium Server\Apache24\manual\platform
67   C:\Program Files\Microsoft SQL Server\110\KeyFile
68   C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\Resources\3082
69   C:\Program Files\Tanium\Tanium Server\CertificateBackup2014-09-16-20-44-23
70   C:\Program Files\Microsoft SQL Server\100\Setup Bootstrap\Release\x64\1033
71   C:\Program Files\Microsoft.NET\ADOMD.NET
72   C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\1028_CHT_LP\x64\1028\help
73   C:\Program Files\Common Files\Microsoft Shared\ink\sl-SI
74   C:\Program Files\Tanium\Tanium Server\plugins\console\UserGroups
75   C:\Program Files\Common Files\Microsoft Shared\ink\hu-HU
76   C:\Program Files\Common Files\System\en-US
77   C:\Program Files\Common Files\Microsoft Shared\ink\zh-TW
78   C:\Program Files\Common Files\Microsoft Shared\ink\zh-CN
79   C:\Program Files\Common Files\VMware\Drivers\video_wddm
80   C:\Program Files\Common Files\Microsoft Shared\ink\fi-FI
81   C:\Program Files\Common Files\Microsoft Shared
82   C:\Program Files\Microsoft SQL Server\110\SDK\Include
83   C:\Program Files\Common Files\Microsoft Shared\ink\da-DK
84   C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-09-16-20-44-23\icons\small
85   C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-11-17-11-17-33
86   C:\Program Files\Microsoft Visual Studio 10.0\Common7\IDE\PrivateAssemblies
87   C:\Program Files\Microsoft SQL Server\80
88   C:\Program Files\Microsoft SQL Server\90
89   C:\Program Files\Windows Mail
90   C:\Program Files\Common Files\VMware\Drivers\vmci\sockets\bin\win64
91   C:\Program Files\Common Files\VMware\Drivers\vmci\sockets\bin\win32
92   C:\Program Files\Common Files\Microsoft Shared\ink\fsdefinitions\oskmenu
93   C:\Program Files\Microsoft SQL Server\110\DTS\LogProviders
94   C:\Program Files\Microsoft SQL Server\100\Setup Bootstrap\Release\Resources\1033
95   C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\1049_RUS_LP\x64\1049
96   C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\Log\20140910_112604\Datastore_GlobalRules
97   C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-09-16-20-44-23\manual\images
98   C:\Program Files\Microsoft SQL Server\110\SDK
99   C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\1036_FRA_LP\x64
100  C:\Program Files\Windows NT\Accessories
101  C:\Program Files\Tanium\Tanium Server\content_public_keys
102  C:\Program Files\Windows NT\TableTextService\en-US
103  C:\Program Files\Tanium\Tanium Server\plugins\console\Manifest
104  C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-09-16-20-44-23\bin
105  C:\Program Files\Tanium\Tanium Server\Apache24\logs
106  C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\1033_ENU_LP
107  C:\Program Files\Tanium\Tanium Server\plugins\content
108  C:\Program Files\Reference Assemblies\Microsoft\Framework
109  C:\Program Files\Microsoft SQL Server\110\DTS\Connections\en
110  C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-11-17-11-17-33\icons\small
111  C:\Program Files\Common Files\VMware\Drivers\Virtual Printer\TPOG3\amd64
112  C:\Program Files\Microsoft Visual Studio 10.0\Common7\IDE\PrivateAssemblies\1033
113  C:\Program Files\Common Files\Microsoft Shared\ink\ko-KR
114  C:\Program Files\Tanium\Tanium Server\Apache24\manual\ssl
115  C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\1042_KOR_LP\x64
116  C:\Program Files\Tanium\Tanium Server\Apache24\manual\style\css
```

```
117  C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-11-17-11-17-33\manual\misc
118  C:\Program Files\Microsoft SQL Server\110\SDK\Lib\x64
119  C:\Program Files\Microsoft SQL Server\110\SDK\Lib\x86
120  C:\Program Files\Tanium\Tanium Server\plugins\console\lib
121  C:\Program Files\Common Files\Microsoft Shared\ink\it-IT
122  C:\Program Files\Microsoft.NET
123  C:\Program Files\Microsoft SQL Server\110\DTS\DataDumps
124  C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-11-17-11-17-33\conf
125  C:\Program Files\Internet Explorer\images
126  C:\Program Files\Windows NT
127  C:\Program Files\Microsoft SQL Server\110\COM\Resources\1033
128  C:\Program Files\Microsoft SQL Server\MSSQL11.SQLEXPRESS\MSSQL\JOBS
129  C:\Program Files\Tanium\Tanium Server\Apache24\htdocs
130  C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\1041_JPN_LP
131  C:\Program Files\Tanium\Tanium Server\php55\extras
132  C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\1031_DEU_LP\x64\1031\help
133  C:\Program Files\Microsoft SQL Server\100\Setup Bootstrap
134  C:\Program Files\Common Files\SpeechEngines\Microsoft\TTS20
135  C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-09-16-20-44-23
136  C:\Program Files\Common Files\Microsoft Shared\Triedit
137  C:\Program Files\Microsoft.NET\ADOMD.NET\110
138  C:\Program Files\Microsoft SQL Server\110\Shared
139  C:\Program Files\Microsoft SQL Server\110\Tools\Binn
140  C:\Program Files\Microsoft Help Viewer
141  C:\Program Files\Microsoft SQL Server\100\Setup Bootstrap\Release\x64\Patch
142  C:\Program Files\Tanium\Tanium Server\Apache24\bin\iconv
143  C:\Program Files\Common Files\VMware\Drivers\memctl
144  C:\Program Files\Tanium\Tanium Server\plugins\console
145  C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-09-16-20-44-23\conf\original
146  C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-09-16-20-44-23\htdocs\php
147  C:\Program Files\Microsoft SQL Server\90\License Terms
148  C:\Program Files\Microsoft SQL Server\100\Setup Bootstrap\Release\Resources
149  C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\x64\pt
150  C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\x64\ru
151  C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-11-17-11-17-33\lib
152  C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\x64\it
153  C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\x64\ko
154  C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\x64\ja
155  C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\x64\es
156  C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\x64\de
157  C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\x64\fr
158  C:\Program Files\Common Files\Microsoft Shared\ink\he-IL
159  C:\Program Files\Common Files\Microsoft Shared\ink\ro-RO
160  C:\Program Files\Common Files\VMware\Drivers\pvscsi
161  C:\Program Files\Microsoft Visual Studio 10.0\Common7\Packages
162  C:\Program Files\Microsoft Visual Studio 10.0\Common7
163  C:\Program Files\Common Files\Services
164  C:\Program Files\Common Files\Microsoft Shared\ink\fsdefinitions\oskpred
165  C:\Program Files\Microsoft SQL Server\110\SDK\Lib
166  C:\Program Files\Microsoft SQL Server\110\DTS\PipelineComponents\Resources\1033
167  C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-09-16-20-44-23\manual\misc
168  C:\Program Files\Tanium\Tanium Server\Apache24\manual\misc
169  C:\Program Files\Common Files\SpeechEngines\Microsoft\TTS20\en-US
170  C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-11-17-11-17-33\modules
171  C:\Program Files\Microsoft SQL Server\110\DTS\Connections
172  C:\Program Files\Tanium\Tanium Server\Downloads\URLCache
173  C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\1046_PTB_LP
174  C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-09-16-20-44-23\manual\rewrite
```

```
175  C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-11-17-11-17-33\manual\images
176  C:\Program Files\Common Files\VMware\Drivers\vmci\device
177  C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-11-17-11-17-33\manual\rewrite
178  C:\Program Files\Common Files
179  C:\Program Files\Tanium\Tanium Server\Apache24\manual
180  C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-09-16-20-44-23\manual\platform
181  C:\Program Files\Tanium\Tanium Server\Apache24\conf\extra
182  C:\Program Files\Common Files\VMware\Drivers\vmci
183  C:\Program Files\Common Files\System\msadc\en-US
184  C:\Program Files\Common Files\System
185  C:\Program Files\Windows NT\Accessories\en-US
186  C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\1036_FRA_LP\x64\1036
187  C:\Program Files\Microsoft SQL Server\MSSQL11.SQLEXPRESS\MSSQL\Binn\Resources
188  C:\Program Files\Tanium\Tanium Server\plugins\console\RegistrySetting
189  C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\1046_PTB_LP\x64\1046
190  C:\Program Files\Tanium\Tanium Server\Apache24\manual\rewrite
191  C:\Program Files\VMware\VMware Tools
192  C:\Program Files\Common Files\Microsoft Shared\ink\fsdefinitions\numbers
193  C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\1049_RUS_LP\x64
194  C:\Program Files\Microsoft SQL Server\MSSQL11.SQLEXPRESS\MSSQL\Log
195  C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-09-16-20-44-23\lib
196  C:\Program Files\Windows NT\TableTextService
197  C:\Program Files\Microsoft SQL Server\MSSQL11.SQLEXPRESS\MSSQL\Binn\Resources\1055
198  C:\Program Files\Microsoft SQL Server\MSSQL11.SQLEXPRESS\MSSQL\Binn\Resources\1053
199  C:\Program Files\Microsoft SQL Server\MSSQL11.SQLEXPRESS\MSSQL\Binn\Resources\1049
200  C:\Program Files\Microsoft SQL Server\MSSQL11.SQLEXPRESS\MSSQL\Binn\Resources\1041
201  C:\Program Files\Microsoft SQL Server\MSSQL11.SQLEXPRESS\MSSQL\Binn\Resources\1040
202  C:\Program Files\Microsoft SQL Server\MSSQL11.SQLEXPRESS\MSSQL\Binn\Resources\1043
203  C:\Program Files\Microsoft SQL Server\MSSQL11.SQLEXPRESS\MSSQL\Binn\Resources\1042
204  C:\Program Files\Microsoft SQL Server\MSSQL11.SQLEXPRESS\MSSQL\Binn\Resources\1045
205  C:\Program Files\Microsoft SQL Server\MSSQL11.SQLEXPRESS\MSSQL\Binn\Resources\1044
206  C:\Program Files\Microsoft SQL Server\MSSQL11.SQLEXPRESS\MSSQL\Binn\Resources\1046
207  C:\Program Files\Microsoft SQL Server\MSSQL11.SQLEXPRESS\MSSQL\Binn\Resources\1038
208  C:\Program Files\Microsoft SQL Server\MSSQL11.SQLEXPRESS\MSSQL\Binn\Resources\1035
209  C:\Program Files\Microsoft SQL Server\MSSQL11.SQLEXPRESS\MSSQL\Binn\Resources\1036
210  C:\Program Files\Microsoft SQL Server\MSSQL11.SQLEXPRESS\MSSQL\Binn\Resources\1030
211  C:\Program Files\Microsoft SQL Server\MSSQL11.SQLEXPRESS\MSSQL\Binn\Resources\1031
212  C:\Program Files\Microsoft SQL Server\MSSQL11.SQLEXPRESS\MSSQL\Binn\Resources\1032
213  C:\Program Files\Microsoft SQL Server\MSSQL11.SQLEXPRESS\MSSQL\Binn\Resources\1033
214  C:\Program Files\Microsoft SQL Server\MSSQL11.SQLEXPRESS\MSSQL\Binn\Resources\1029
215  C:\Program Files\Microsoft SQL Server\MSSQL11.SQLEXPRESS\MSSQL\Binn\Resources\1028
216  C:\Program Files\Tanium\Tanium Server\Apache24\htdocs\console
217  C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\1042_KOR_LP\x64\1042
218  C:\Program Files\Tanium\Tanium Server\Apache24\error
219  C:\Program Files\Common Files\Microsoft Shared\ink\nb-NO
220  C:\Program Files\Tanium\Tanium Server\Apache24\manual\mod
221  C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\1041_JPN_LP\x64
222  C:\Program Files\Common Files\Microsoft Shared\ink\lv-LV
223  C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-09-16-20-44-23\manual
224  C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\1033_ENU_LP\x64\1033
225  C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-09-16-20-44-23\conf\original\extra
226  C:\Program Files\Common Files\Microsoft Shared\ink\fsdefinitions\auxpad
227  C:\Program Files\Common Files\Microsoft Shared\TextConv
228  C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-09-16-20-44-23\manual\developer
229  C:\Program Files\Common Files\Microsoft Shared\MSInfo\en-US
230  C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\3082_ESN_LP\x64\3082
231  C:\Program Files\Common Files\Microsoft Shared\ink\nl-NL
232  C:\Program Files\Tanium
```

```
233  C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-11-17-11-17-33\manual\howto
234  C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-11-17-11-17-33\include
235  C:\Program Files\Reference Assemblies\Microsoft\Framework\v3.5\RedistList
236  C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\Log\20140910_112532\Datastore_LandingPage
237  C:\Program Files\Microsoft SQL Server\100\KeyFile\1033
238  C:\Program Files\Microsoft SQL Server\110\Tools\Binn\Resources\1033
239  C:\Program Files\Tanium\Tanium Server\Downloads\Cache
240  C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-11-17-11-17-33\manual\style\latex
241  C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\3082_ESN_LP
242  C:\Program Files\Tanium\Tanium Server\php55\dev
243  C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-11-17-11-17-33\bin\iconv
244  C:\Program Files\VMware\VMware Tools\messages\zh_CN
245  C:\Program Files\Tanium\Tanium Server\Apache24\manual\vhosts
246  C:\Program Files\Common Files\VMware\Drivers\vmci\sockets
247  C:\Program Files\Microsoft SQL Server\90\Shared\Resources\1033
248  C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-09-16-20-44-23\conf
249  C:\Program Files\Common Files\VMware
250  C:\Program Files\Common Files\System\msadc
251  C:\Program Files\Microsoft SQL Server\110\Tools
252  C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-11-17-11-17-33\htdocs\php
253  C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\1040_ITA_LP
254  C:\Program Files\Common Files\Microsoft Shared\ink\fr-FR
255  C:\Program Files\Common Files\VMware\Drivers\vss
256  C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-11-17-11-17-33\bin
257  C:\Program Files\Common Files\Microsoft Shared\ink\tr-TR
258  C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-11-17-11-17-33\manual\programs
259  C:\Program Files\Common Files\Microsoft Shared\VC
260  C:\Program Files\Tanium\Tanium Server\php55\ext
261  C:\Program Files\Common Files\Microsoft Shared\WF
262  C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-09-16-20-44-23\manual\ssl
263  C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-11-17-11-17-33\htdocs
264  C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-11-17-11-17-33\htdocs\console
265  C:\Program Files\Microsoft SQL Server\MSSQL11.SQLEXPRESS\MSSQL\Binn\Templates
266  C:\Program Files\Tanium\Tanium Server\plugins
267  C:\Program Files\Tanium\Tanium Server\Apache24\icons\small
268  C:\Program Files\Microsoft SQL Server\110\Shared\en
269  C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-09-16-20-44-23\htdocs\php\Auth
270  C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-09-16-20-44-23\error\include
271  C:\Program Files\Microsoft SQL Server\100\Setup Bootstrap\Release\x64\Help
272  C:\Program Files\Microsoft Help Viewer\v1.0\Microsoft Help Viewer 1.1
273  C:\Program Files\Microsoft SQL Server\110\Tools\Binn\ManagementStudio
274  C:\Program Files\Common Files\Microsoft Shared\ink\fsdefinitions\symbols
275  C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\1036_FRA_LP\x64\1036\help
276  C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-11-17-11-17-33\manual
277  C:\Program Files\Common Files\System\Ole DB\en-US
278  C:\Program Files\Microsoft SQL Server\110\Tools\Binn\ManagementStudio\Extensions
279  C:\Program Files\Microsoft SQL Server\80\Tools\Binn
280  C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\2052_CHS_LP
281  C:\Program Files\Common Files\Microsoft Shared\ink\lt-LT
282  C:\Program Files\Microsoft SQL Server\MSSQL11.SQLEXPRESS\MSSQL\Binn
283  C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\x64
284  C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-09-16-20-44-23\htdocs
285  C:\Program Files\Microsoft SQL Server\100\KeyFile
286  C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-11-17-11-17-33\manual\style
287  C:\Program Files\Microsoft SQL Server\MSSQL11.SQLEXPRESS\MSSQL\Install
288  C:\Program Files\Common Files\Microsoft Shared\ink\et-EE
289  C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\1028_CHT_LP
290  C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\1040_ITA_LP\x64\1040
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```
291  C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\1028_CHT_LP\x64
292  C:\Program Files\Common Files\VMware\Drivers\Virtual Printer\TPOGPS
293  C:\Program Files\Common Files\Microsoft Shared\ink\cs-CZ
294  C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\2052_CHS_LP\x64\2052\help
295  C:\Program Files\VMware
296  C:\Program Files\Microsoft SQL Server\110\Shared\VS2008
297  C:\Program Files\Microsoft Visual Studio 10.0\Common7\Packages\Debugger
298  C:\Program Files\Common Files\VMware\Drivers\mouse
299  C:\Program Files\Common Files\VMware\Drivers\vmci\sockets\bin
300  C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-09-16-20-44-23\bin\iconv
301  C:\Program Files\Common Files\Microsoft Shared\ink\en-US
302  C:\Program Files\Microsoft SQL Server\MSSQL11.SQLEXPRESS\MSSQL\Backup
303  C:\Program Files\Tanium\Tanium Server\VB
304  C:\Program Files\Microsoft SQL Server\110\DTS\ForEachEnumerators\Resources\1033
305  C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-11-17-11-17-33\manual\vhosts
306  C:\Program Files\Common Files\Microsoft Shared\ink\bg-BG
307  C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-11-17-11-17-33\manual\ssl
308  C:\Program Files\Tanium\Tanium Server\Apache24\bin
309  C:\Program Files\Common Files\System\Ole DB
310  C:\Program Files\Tanium\Tanium Server\Apache24\manual\faq
311  C:\Program Files\Microsoft SQL Server\MSSQL11.SQLEXPRESS
312  C:\Program Files\Common Files\VMware\Drivers\audio
313  C:\Program Files\Microsoft SQL Server\110\DTS\Binn\Resources
314  C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\1041_JPN_LP\x64\1041
315  C:\Program Files\Reference Assemblies\Microsoft\Framework\v3.0\RedistList
316  C:\Program Files\Tanium\Tanium Server\Downloads
317  C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\1049_RUS_LP\x64\1049\help
318  C:\Program Files\Microsoft Visual Studio 10.0\Common7\Packages\Debugger\x86
319  C:\Program Files\Microsoft Visual Studio 10.0\Common7\Packages\Debugger\X64
320  C:\Program Files\MSBuild\Microsoft\Windows Workflow Foundation
321  C:\Program Files\Microsoft SQL Server\100\Shared
322  C:\Program Files\Internet Explorer\SIGNUP
323  C:\Program Files\Common Files\Microsoft Shared\ink\es-ES
324  C:\Program Files\Tanium\Tanium Server\Support
325  C:\Program Files\Microsoft SQL Server\110\DTS\Binn
326  C:\Program Files\Common Files\Microsoft Shared\MSInfo
327  C:\Program Files\Reference Assemblies
328  C:\Program Files\Microsoft SQL Server\110\Shared\RsFxInstall
329  C:\Program Files\Microsoft Help Viewer\v1.0\CatalogInfo
330  C:\Program Files\Microsoft SQL Server\110\DTS\MappingFiles
331  C:\Program Files\Microsoft SQL Server\110\DTS\PipelineComponents\Resources
332  C:\Program Files\Common Files\Microsoft Shared\WF\amd64
333  C:\Program Files\Tanium\Tanium Server\plugins\console\SigVerifier
334  C:\Program Files\Tanium\Tanium Server\plugins\console\DashboardGroups
335  C:\Program Files\Microsoft SQL Server\80\Tools
336  C:\Program Files\Microsoft SQL Server\MSSQL11.SQLEXPRESS\MSSQL\Template Data
337  C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-09-16-20-44-23\icons
338  C:\Program Files\Common Files\Microsoft Shared\ink\de-DE
339  C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\1031_DEU_LP\x64\1031
340  C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\1042_KOR_LP
341  C:\Program Files\Microsoft Visual Studio 10.0\Common7\IDE
342  C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\1033_ENU_LP\x64\1033\help
343  C:\Program Files\Common Files\Microsoft Shared\ink\fsdefinitions\main
344  C:\Program Files\Microsoft Help Viewer\v1.0\StopWords
345  C:\Program Files\Microsoft SQL Server\110\Tools\Binn\ManagementStudio\Extensions\Application
346  C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap
347  C:\Program Files\Microsoft SQL Server\MSSQL11.SQLEXPRESS\MSSQL\repldata
348  C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\x64\zh-CHT
```

```
349   C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\x64\zh-CHS
350   C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-09-16-20-44-23\manual\vhosts
351   C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\1042_KOR_LP\x64\1042\help
352   C:\Program Files\Microsoft SQL Server\110\DTS\Tasks\en
353   C:\Program Files\Common Files\SpeechEngines
354   C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-09-16-20-44-23\logs
355   C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-09-16-20-44-23\manual\mod
356   C:\Program Files\VMware\VMware Tools\Drivers\hgfs
357   C:\Program Files\Tanium\Tanium Server\Apache24\conf\original
358   C:\Program Files\Uninstall Information
359   C:\Program Files\Reference Assemblies\Microsoft\Framework\v3.5
360   C:\Program Files\Reference Assemblies\Microsoft\Framework\v3.0
361   C:\Program Files\Microsoft Visual Studio 10.0\Common7\IDE\Xml
362   C:\Program Files\Microsoft SQL Server\110\DTS\PipelineComponents
363   C:\Program Files\Microsoft SQL Server\90\Shared\Resources
364   C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\1046_PTB_LP\x64\1046\help
365   C:\Program Files\Tanium\Tanium Server\Apache24\include
366   C:\Program Files\Tanium\Tanium Server\plugins\console\GroupFiliters
367   C:\Program Files\VMware\VMware Tools\Drivers
368   C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\1041_JPN_LP\x64\1041\help
369   C:\Program Files\Tanium\Tanium Server\Downloads\tmp
370   C:\Program Files\Microsoft SQL Server\100\Setup Bootstrap\Release
371   C:\Program Files\Tanium\Tanium Server\Apache24\conf\original\extra
372   C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-11-17-11-17-33\manual\style\scripts
373   C:\Program Files\Common Files\Microsoft Shared\ink\sr-Latn-CS
374   C:\Program Files\Common Files\Microsoft Shared\ink\fsdefinitions\osknumpad
375   C:\Program Files\Microsoft SQL Server\110\License Terms
376   C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012
377   C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\1031_DEU_LP\x64
378   C:\Program Files\Common Files\VMware\Drivers\vmxnet
379   C:\Program Files\Tanium\Tanium Server\Strings
380   C:\Program Files\MSBuild
381   C:\Program Files\Microsoft SQL Server\110\COM\Resources
382   C:\Program Files\Common Files\VMware\Drivers\Virtual Printer\TPOGPS\amd64
383   C:\Program Files\Microsoft SQL Server\80\COM
384   C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-09-16-20-44-23\htdocs\console\history
385   C:\Program Files\Tanium\Tanium Server\Apache24\manual\howto
386   C:\Program Files\Microsoft SQL Server\110\Shared\Resources\1033
387   C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-09-16-20-44-23\conf\extra
388   C:\Program Files\Common Files\Microsoft Shared\MSEnv
389   C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\2052_CHS_LP\x64\2052
390   C:\Program Files\Common Files\VMware\Drivers\Virtual Printer
391   C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-11-17-11-17-33\htdocs\console\history
392   C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\1028_CHT_LP\x64\1028
393   C:\Program Files\Microsoft SQL Server\110\Shared\VS2008\1033
394   C:\Program Files\Common Files\Microsoft Shared\ink\pt-BR
395   C:\Program Files\Common Files\Microsoft Shared\ink\pt-PT
396   C:\Program Files\Common Files\System\ado
397   C:\Program Files\Microsoft SQL Server\110\KeyFile\1033
398   C:\Program Files\Tanium\Tanium Server\SOAPUpload
399   C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\Resources\2052
400   C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\Log\20140910_112604\resources
401   C:\Program Files\Microsoft SQL Server\MSSQL11.SQLEXPRESS\MSSQL\DATA
402   C:\Program Files\Tanium\Tanium Server\php55\extras\ssl
403   C:\Program Files\Common Files\Microsoft Shared\ink\el-GR
404   C:\Program Files\VMware\VMware Tools\win32
405   C:\Program Files\VMware\VMware Tools\win64
406   C:\Program Files\Microsoft SQL Server\110\Shared\Resources
```

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407  C:\Program Files\Internet Explorer
408  C:\Program Files\Tanium\Tanium Server\Apache24\icons
409  C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\1033_ENU_LP\x64
410  C:\Program Files\Microsoft SQL Server\MSSQL11.SQLEXPRESS\MSSQL
411  C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\1031_DEU_LP
412  C:\Program Files\Tanium\Tanium Server\Apache24\manual\programs
413  C:\Program Files\Common Files\VMware\Drivers\vmxnet3
414  C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\1049_RUS_LP
415  C:\Program Files\VMware\VMware Tools\Drivers\hgfs\wow64
416  C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\Log
417  C:\Program Files\Microsoft SQL Server\90\License Terms\1033
418  C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-11-17-11-17-33\logs
419  C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-11-17-11-17-33\manual\faq
420  C:\Program Files\Tanium\Tanium Server\Suppot_patch1
421  C:\Program Files\Common Files\Microsoft Shared\ink\fsdefinitions\web
422  C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-11-17-11-17-33\cgi-bin
423  C:\Program Files\Tanium\Tanium Server\Apache24\manual\developer
424  C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\Resources\1036
425  C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\Resources\1033
426  C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\Resources\1031
427  C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\Resources\1028
428  C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\Resources\1049
429  C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\Resources\1046
430  C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\Resources\1042
431  C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\Resources\1041
432  C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\Resources\1040
433  C:\Program Files\Microsoft SQL Server\100\Setup Bootstrap\Release\x64
434  C:\Program Files\Tanium\Tanium Server\Apache24\manual\style\latex
435  C:\Program Files\Tanium\Tanium Server
436  C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-09-16-20-44-23\htdocs\console
437  C:\Program Files\Tanium\Tanium Server\http
438  C:\Program Files\Common Files\Microsoft Shared\ink\ja-JP
439  C:\Program Files\Microsoft SQL Server\110\DTS\Packages
440  C:\Program Files\Common Files\Microsoft Shared\ink\sk-SK
441  C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-11-17-11-17-33\manual\style\css
442  C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-11-17-11-17-33\conf\original
443  C:\Program Files\Tanium\Tanium Server\Apache24\htdocs\php
444  C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-09-16-20-44-23\manual\howto
445  C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-09-16-20-44-23\manual\style\latex
446  C:\Program Files\Common Files\Microsoft Shared\ink\hr-HR
447  C:\Program Files\Common Files\VMware\Drivers
448  C:\Program Files\Tanium\Tanium Server\Apache24\lib
449  C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\Log\20140910_112532
450  C:\Program Files\Microsoft Help Viewer\v1.0
451  C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-11-17-11-17-33\conf\extra
452  C:\Program Files\Tanium\Tanium Server\Apache24
453  C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-09-16-20-44-23\manual\style\scripts
454  C:\Program Files\Common Files\Microsoft Shared\VGX
455  C:\Program Files\Microsoft SQL Server\110\DTS\ProviderDescriptors
456  C:\Program Files\Microsoft SQL Server\110\COM\en
457  C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-09-16-20-44-23\manual\faq
458  C:\Program Files\Tanium\Tanium Server\Apache24\manual\style\scripts
459  C:\Program Files\Common Files\Microsoft Shared\Triedit\en-US
460  C:\Program Files\Microsoft SQL Server\100\Setup Bootstrap\Release\x64\Help\1033
461  C:\Program Files\Microsoft SQL Server\110\COM
462  C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\1046_PTB_LP\x64
463  C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\Log\20140910_112831\Datastore_GlobalRules
464  C:\Program Files\Common Files\Microsoft Shared\TextConv\en-US
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465  C:\Program Files\VMware\VMware Tools\plugins
466  C:\Program Files\Microsoft SQL Server\110\DTS
467  C:\Program Files\Tanium\Tanium Server\plugins\console\SavedQuestions
468  C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-11-17-11-17-33\error\include
469  C:\Program Files\Common Files\System\ado\en-US
470  C:\Program Files\Tanium\Tanium Server\Apache24\cgi-bin
471  C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\Log\20140910_112604
472  C:\Program Files\VMware\VMware Tools\plugins\vmusr
473  C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\Log\20140910_112831\Datastore
474  C:\Program Files\Microsoft SQL Server\MSSQL11.SQLEXPRESS\MSSQL\Binn\DllTmp64
475  C:\Program Files\Microsoft SQL Server\MSSQL11.SQLEXPRESS\MSSQL\Binn\DllTmp32
476  C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-09-16-20-44-23\manual\programs
477  C:\Program Files\Microsoft SQL Server\110\Tools\Binn\Resources
478  C:\Program Files\Tanium\Tanium Server\php55
479  C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-09-16-20-44-23\manual\style
480  C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\1040_ITA_LP\x64
481  C:\Program Files\Reference Assemblies\Microsoft
482  C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-09-16-20-44-23\include
483  C:\Program Files\Tanium\Tanium Server\Apache24\manual\images
484  C:\Program Files\Common Files\Microsoft Shared\ink\fsdefinitions
485  C:\Program Files\Microsoft SQL Server\110\SDK\Assemblies\en
486  C:\Program Files\Tanium\Tanium Server\Logs
487  C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-11-17-11-17-33\manual\mod
488  C:\Program Files\Common Files\VMware\Drivers\Virtual Printer\TPOG3
489  C:\Program Files\Microsoft SQL Server\110
490  C:\Program Files\Microsoft SQL Server\100
491  C:\Program Files\Tanium\Tanium Server\Apache24\modules
492  C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-11-17-11-17-33\manual\platform
493  C:\Program Files\Microsoft Visual Studio 10.0
494  C:\Program Files\Microsoft SQL Server\MSSQL11.SQLEXPRESS\MSSQL\Binn\Resources\3082
495  C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\Log\20140910_112831
496  C:\Program Files\VMware\VMware Tools\plugins\common
497  C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\Log\20140910_112804
498  C:\Program Files\Common Files\Microsoft Shared\ink\th-TH
499  C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-11-17-11-17-33\icons
500  C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\Log\20140910_112831\Datastore_ComponentUpd
501  C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-11-17-11-17-33\error
502  C:\Program Files\Microsoft SQL Server
503  C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-09-16-20-44-23\error
504  C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\3082_ESN_LP\x64
505  C:\Program Files\Common Files\Microsoft Shared\SQL Debugging
506  C:\Program Files\Tanium\Tanium Server\Apache24\error\include
507  C:\Program Files\Microsoft SQL Server\110\SDK\Assemblies
508  C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\x64\Patch
509  C:\Program Files\Microsoft Help Viewer\v1.0\en
510  C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\3082_ESN_LP\x64\3082\help
511  C:\Program Files\Microsoft SQL Server\90\Shared
512  C:\Program Files\Microsoft SQL Server\MSSQL11.SQLEXPRESS\MSSQL\Binn\Resources\2052
513  C:\Program Files\Microsoft SQL Server\MSSQL11.SQLEXPRESS\MSSQL\Binn\Resources\2070
514  C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-11-17-11-17-33\conf\original\extra
515  C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-11-17-11-17-33\manual\developer
516  C:\Program Files\Common Files\Microsoft Shared\ink\pl-PL
517  C:\Program Files\Common Files\SpeechEngines\Microsoft\TTS20\en-US\enu-dsk
518  C:\Program Files\Common Files\Microsoft Shared\Stationery
519  C:\Program Files\Common Files\Microsoft Shared\VS7Debug\1033
520  C:\Program Files\Microsoft SQL Server\100\Setup Bootstrap\Bin
521  C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\Resources
522  C:\Program Files\Microsoft SQL Server\110\Shared\ErrorDumps
```

```
523    C:\Program Files\Internet Explorer\en-US
524    C:\Program Files\VMware\VMware Tools\messages\it
525    C:\Program Files\VMware\VMware Tools\messages\ja
526    C:\Program Files\VMware\VMware Tools\messages\ko
527    C:\Program Files\VMware\VMware Tools\messages\de
528    C:\Program Files\VMware\VMware Tools\messages\es
529    C:\Program Files\VMware\VMware Tools\messages\fr
530    C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\1036_FRA_LP
531    C:\Program Files\Microsoft SQL Server\110\DTS\Tasks"
```

Ask manual human question sensor with parameters and no supplied parameters

Ask a manual question using human strings by referencing the name of a single sensor that takes parameters, but not supplying any parameters (and letting pytan automatically determine the appropriate default value for those parameters which require a value).

No sensor filters, sensor parameters, sensor filter options, question filters, or question options supplied.

Example Python Code

```python
1    # Path to lib directory which contains pytan package
2    PYTAN_LIB_PATH = '../lib'
3
4    # connection info for Tanium Server
5    USERNAME = "Tanium User"
6    PASSWORD = "T@n!um"
7    HOST = "172.16.31.128"
8    PORT = "444"
9
10   # Logging conrols
11   LOGLEVEL = 2
12   DEBUGFORMAT = False
13
14   import sys, tempfile
15   sys.path.append(PYTAN_LIB_PATH)
16
17   import pytan
18   handler = pytan.Handler(
19       username=USERNAME,
20       password=PASSWORD,
21       host=HOST,
22       port=PORT,
23       loglevel=LOGLEVEL,
24       debugformat=DEBUGFORMAT,
25   )
26
27   print handler
28
29   # setup the arguments for the handler method
30   kwargs = {}
31   kwargs["sensors"] = u'Folder Name Search with RegEx Match'
32   kwargs["qtype"] = u'manual_human'
33
34   # call the handler with the ask method, passing in kwargs for arguments
35   response = handler.ask(**kwargs)
```

```
36  import pprint, io
37
38  print ""
39  print "Type of response: ", type(response)
40
41  print ""
42  print "Pretty print of response:"
43  print pprint.pformat(response)
44
45  print ""
46  print "Equivalent Question if it were to be asked in the Tanium Console: "
47  print response['question_object'].query_text
48
49  # create an IO stream to store CSV results to
50  out = io.BytesIO()
51
52  # call the write_csv() method to convert response to CSV and store it in out
53  response['question_results'].write_csv(out, response['question_results'])
54
55  print ""
56  print "CSV Results of response: "
57  print out.getvalue()
```

Output from Python Code

```
1   Handler for Session to 172.16.31.128:444, Authenticated: True, Version: 6.2.314.3258
2   2014-12-07 01:04:48,586 INFO     question_progress: Results 0% (Get Folder Name Search with RegEx Ma
3   2014-12-07 01:04:53,604 INFO     question_progress: Results 0% (Get Folder Name Search with RegEx Ma
4   2014-12-07 01:04:58,620 INFO     question_progress: Results 0% (Get Folder Name Search with RegEx Ma
5   2014-12-07 01:05:03,638 INFO     question_progress: Results 0% (Get Folder Name Search with RegEx Ma
6   2014-12-07 01:05:08,654 INFO     question_progress: Results 0% (Get Folder Name Search with RegEx Ma
7   2014-12-07 01:05:13,672 INFO     question_progress: Results 0% (Get Folder Name Search with RegEx Ma
8   2014-12-07 01:05:18,693 INFO     question_progress: Results 0% (Get Folder Name Search with RegEx Ma
9   2014-12-07 01:05:23,706 INFO     question_progress: Results 0% (Get Folder Name Search with RegEx Ma
10  2014-12-07 01:05:28,725 INFO     question_progress: Results 0% (Get Folder Name Search with RegEx Ma
11  2014-12-07 01:05:33,745 INFO     question_progress: Results 0% (Get Folder Name Search with RegEx Ma
12  2014-12-07 01:05:38,760 INFO     question_progress: Results 0% (Get Folder Name Search with RegEx Ma
13  2014-12-07 01:05:43,775 INFO     question_progress: Results 0% (Get Folder Name Search with RegEx Ma
14  2014-12-07 01:05:48,794 INFO     question_progress: Results 0% (Get Folder Name Search with RegEx Ma
15  2014-12-07 01:05:53,811 INFO     question_progress: Results 0% (Get Folder Name Search with RegEx Ma
16  2014-12-07 01:05:58,828 INFO     question_progress: Results 0% (Get Folder Name Search with RegEx Ma
17  2014-12-07 01:06:03,844 INFO     question_progress: Results 0% (Get Folder Name Search with RegEx Ma
18  2014-12-07 01:06:08,862 INFO     question_progress: Results 0% (Get Folder Name Search with RegEx Ma
19  2014-12-07 01:06:13,881 INFO     question_progress: Results 0% (Get Folder Name Search with RegEx Ma
20  2014-12-07 01:06:18,899 INFO     question_progress: Results 0% (Get Folder Name Search with RegEx Ma
21  2014-12-07 01:06:23,919 INFO     question_progress: Results 0% (Get Folder Name Search with RegEx Ma
22  2014-12-07 01:06:28,936 INFO     question_progress: Results 100% (Get Folder Name Search with RegEx
23
24  Type of response:  <type 'dict'>
25
26  Pretty print of response:
27  {'question_object': <taniumpy.object_types.question.Question object at 0x10204fb90>,
28   'question_results': <taniumpy.object_types.result_set.ResultSet object at 0x102334ed0>}
29
30  Equivalent Question if it were to be asked in the Tanium Console:
31  Get Folder Name Search with RegEx Match[No, , No, ] from all machines
32
```

```
33  CSV Results of response:
34  Count,"Folder Name Search with RegEx Match[No, , No, ]"
35  25044,[too many results]
36  1,C:\Windows\winsxs\amd64_microsoft-windows-s..structure.resources_31bf3856ad364e35_6.1.7600.16385_e
37  1,C:\Windows\winsxs\x86_microsoft-windows-e..-host-authenticator_31bf3856ad364e35_6.1.7601.17514_non
38  1,C:\Windows\winsxs\amd64_microsoft-windows-ocspsvc_31bf3856ad364e35_6.1.7601.22807_none_3bfeae72930
39  1,C:\Windows\winsxs\amd64_microsoft-windows-c..ityclient.resources_31bf3856ad364e35_6.1.7601.22865_e
40  1,C:\Windows\assembly\NativeImages_v2.0.50727_64\System.Xml
41  1,C:\Users\Jim Olsen\Desktop\SysinternalsSuite
42  1,C:\Windows\winsxs\amd64_microsoft-windows-scripting.resources_31bf3856ad364e35_6.1.7600.16385_en-u
43  1,C:\Windows\winsxs\x86_microsoft-windows-mlang.resources_31bf3856ad364e35_6.1.7600.16385_ru-ru_cf3a
44  1,C:\Windows\winsxs\x86_microsoft-windows-directshow-dvdsupport_31bf3856ad364e35_6.1.7601.21987_none
45  1,C:\Windows\winsxs\amd64_microsoft-windows-ie-internetexplorer_31bf3856ad364e35_11.2.9600.17041_non
46  1,C:\Users\Jim Olsen\AppData\Local\Google
47  1,C:\Windows\winsxs\x86_microsoft-windows-e..nt-client.resources_31bf3856ad364e35_6.1.7600.16385_en-
48  1,C:\Windows\winsxs\amd64_microsoft-windows-d..e-eashared-kjshared_31bf3856ad364e35_6.1.7600.16385_n
49  1,C:\Windows\assembly\NativeImages_v4.0.30319_32\RadLangSvc
50  1,C:\Windows\winsxs\amd64_microsoft-windows-p..ginworker.resources_31bf3856ad364e35_6.1.7600.16385_e
51  1,C:\Windows\winsxs\amd64_microsoft-windows-i..riptcollectionagent_31bf3856ad364e35_11.2.9600.17041_
52  1,C:\Windows\assembly\NativeImages_v2.0.50727_32\System.ServiceProce#
53  1,C:\Program Files (x86)\Tanium\Tanium Client\Downloads\Action_63\grep
54  1,C:\Windows\Microsoft.NET\assembly\GAC_32\Microsoft.SqlServer.BulkInsertTaskConnections
55  1,C:\ProgramData\Microsoft\Device Stage\Task\{e35be42d-f742-4d96-a50a-1775fb1a7a42}\en-US
56  1,C:\Windows\assembly\NativeImages_v4.0.30319_64\Microsoft.S8d1a6405#
57  1,C:\Windows\assembly\NativeImages_v2.0.50727_64\napsnap
58  1,C:\Windows\assembly\NativeImages_v4.0.30319_32\Microsoft.B22c61a69#\9a56520d8321e899683663fc7b00b7
59  1,C:\Windows\winsxs\amd64_microsoft-windows-baseapinamespace_31bf3856ad364e35_6.1.7601.17514_none_a4
60  1,C:\Windows\System32\inetsrv\config\Export
61  1,C:\Windows\winsxs\amd64_microsoft-windows-wininit_31bf3856ad364e35_6.1.7600.16385_none_8ce7aa761e0
62  1,C:\Windows\winsxs\amd64_microsoft-windows-d..x-directxdiagnostic_31bf3856ad364e35_6.1.7601.17514_n
63  1,C:\Windows\winsxs\amd64_netfx-accessibility_b03f5f7f11d50a3a_6.1.7601.22733_none_a079af8fec10f97e
64  1,C:\Windows\Microsoft.NET\assembly\GAC_MSIL\System.Dynamic.Runtime
65  1,C:\Windows\assembly\NativeImages_v2.0.50727_64\System.Workflow.Run#
66  1,C:\Program Files (x86)\Tanium\Tanium Client\Downloads\Action_56\grep\share\locale\vi\LC_MESSAGES
67  1,C:\Windows\winsxs\amd64_microsoft-windows-i..l-keyboard-00050409_31bf3856ad364e35_6.1.7600.16385_n
68  1,C:\Windows\winsxs\amd64_microsoft-windows-s..ty-spp-ux.resources_31bf3856ad364e35_6.1.7600.16385_e
69  1,C:\Windows\assembly\NativeImages_v2.0.50727_32\System.Runtime.Remo#\875c35969785fa170d186e7ca546ac
70  1,C:\Windows\winsxs\amd64_microsoft-windows-inetres-adm.resources_31bf3856ad364e35_11.2.9600.17239_e
71  1,C:\Windows\winsxs\amd64_microsoft-windows-b..vironment-os-loader_31bf3856ad364e35_6.1.7601.21655_n
72  1,C:\Windows\assembly\NativeImages_v4.0.30319_32\WindowsForm0b574481#
73  1,C:\Windows\winsxs\amd64_microsoft-windows-l..webserver.resources_31bf3856ad364e35_6.1.7601.17514_e
74  1,C:\Windows\winsxs\wow64_microsoft-windows-scripting-vbscript_31bf3856ad364e35_6.1.7601.18337_none_
75  1,C:\Windows\winsxs\amd64_microsoft-windows-f..truetype-lucidasans_31bf3856ad364e35_6.1.7600.16385_n
76  1,C:\Program Files (x86)\Tanium\Tanium Client\Downloads\Action_21\grep\share\locale\ja\LC_MESSAGES
77  1,C:\Windows\winsxs\amd64_microsoft-windows-d..s-ime-japanese-core_31bf3856ad364e35_6.1.7600.16385_n
78  1,C:\Program Files (x86)\Common Files\microsoft shared\MSEnv\PublicAssemblies
79  1,C:\Windows\assembly\NativeImages_v4.0.30319_32\Microsoft.S6402eefa#\57e4c4b79ab9ff13194fff26fd4cb8
80  1,C:\Windows\Media\Calligraphy
81  1,C:\Windows\System32\DriverStore
82  1,C:\Windows\winsxs\amd64_microsoft-windows-m..do-backcompat-tlb20_31bf3856ad364e35_6.1.7601.22012_n
83  1,C:\Windows\winsxs\x86_microsoft-windows-x..ocess-mui.resources_31bf3856ad364e35_6.1.7600.16385_en-
84  1,C:\Windows\winsxs\Temp\PendingRenames
85  1,C:\Windows\winsxs\amd64_microsoft-windows-m..ents-mdac-ado15-dll_31bf3856ad364e35_6.1.7601.22012_n
86  1,C:\Windows\assembly\GAC_MSIL\PresentationFramework\3.0.0.0__31bf3856ad364e35
87  1,C:\Program Files (x86)\Tanium\Tanium Client\Downloads\Action_24\grep\share\locale\de\LC_MESSAGES
88  1,C:\Windows\winsxs\amd64_prnlx00x.inf.resources_31bf3856ad364e35_6.1.7600.16385_en-us_34edc3c5e185e
89  1,C:\Windows\winsxs\x86_microsoft-windows-s..-binaries.resources_31bf3856ad364e35_6.1.7601.17514_sk-
90  1,C:\Windows\winsxs\x86_system.printing_31bf3856ad364e35_6.1.7601.22309_none_75e11e57ed6f8b6a
```

```
91  1,C:\Windows\winsxs\amd64_microsoft-windows-g..admintools-admfiles_31bf3856ad364e35_6.1.7600.16385_n
92  1,C:\Windows\winsxs\x86_microsoft-windows-n..-security.resources_31bf3856ad364e35_6.1.7600.16385_en-
93  1,C:\Windows\Microsoft.NET\Framework\v2.0.50727\ASP.NETWebAdminFiles\App_GlobalResources
94  1,C:\Windows\Microsoft.NET\Framework\v2.0.50727\CONFIG\Browsers
95  1,C:\Windows\winsxs\x86_microsoft-windows-comctl32-v5.resources_31bf3856ad364e35_6.1.7600.16385_ru-r
96  1,C:\Windows\winsxs\x86_microsoft-windows-i..tional-codepage-858_31bf3856ad364e35_6.1.7600.16385_non
97  1,C:\Windows\winsxs\amd64_microsoft-windows-t..instationextensions_31bf3856ad364e35_6.1.7601.17828_n
98  1,C:\Windows\winsxs\amd64_microsoft-windows-comctl32-v5.resources_31bf3856ad364e35_6.1.7600.16385_th
99  1,C:\Program Files (x86)\Tanium\Tanium Client\Downloads\Action_19\grep\share\locale\tr\LC_MESSAGES
100 1,C:\Windows\System32\DriverStore\FileRepository\qd3x64.inf_amd64_neutral_e8903726d63a3f07
101 1,C:\Windows\winsxs\amd64_sdbus.inf.resources_31bf3856ad364e35_6.1.7600.16385_en-us_86b03fe7f8988681
102 1,C:\Windows\winsxs\x86_netfx-netfxsbs10_exe_31bf3856ad364e35_6.1.7601.18514_none_3d9642980c369d84
103 1,C:\Windows\winsxs\x86_microsoft-windows-r..ne-editor.resources_31bf3856ad364e35_6.1.7600.16385_en-
104 1,C:\Windows\winsxs\amd64_microsoft-windows-pcwdiagnostic_31bf3856ad364e35_6.1.7600.16385_none_5120b
105 1,C:\Windows\winsxs\amd64_microsoft-windows-f..overcluster-wizards_31bf3856ad364e35_6.1.7601.17514_n
106 1,C:\Program Files (x86)\Tanium\Tanium Client\Downloads\Action_23\grep\share\locale\ky\LC_MESSAGES
107 1,C:\Windows\winsxs\amd64_microsoft-windows-eventviewer.resources_31bf3856ad364e35_6.1.7600.16385_en
108 1,C:\Program Files (x86)\Tanium\Tanium Client\Downloads\Action_24\grep\share\locale\pt_BR\LC_MESSAGE
109 1,C:\Windows\winsxs\amd64_microsoft-windows-themeservice_31bf3856ad364e35_6.1.7600.16385_none_05f772
110 1,C:\Windows\winsxs\amd64_microsoft-windows-n..ce_datastore_srvsku_31bf3856ad364e35_6.1.7600.16385_n
111 1,C:\Windows\assembly\GAC_MSIL\Microsoft.ApplicationId.RuleWizard.Resources
112 1,C:\Windows\winsxs\amd64_srpuxnativesnapin_31bf3856ad364e35_6.1.7600.16385_none_447807b31b9d298e
113 1,C:\Windows\assembly\GAC\VSLangProj\7.0.3300.0__b03f5f7f11d50a3a
114 1,C:\Windows\assembly\NativeImages_v4.0.30319_32\Microsoft.S1eb28fa5#\5661d649208ef3a720c99e1e4271c0
115 1,C:\Windows\SysWOW64\en-US\Licenses\OEM\ServerStorageWorkgroup
116 1,C:\Windows\winsxs\wow64_microsoft-windows-n..etcapture.resources_31bf3856ad364e35_6.1.7600.16385_e
117 1,C:\Windows\winsxs\x86_microsoft-windows-lsa-msprivs.resources_31bf3856ad364e35_6.1.7600.16385_sv-s
118 1,C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-09-16-20-44-23\cgi-bin
119 1,C:\Windows\winsxs\amd64_microsoft-windows-i..rver2008compat-data_31bf3856ad364e35_6.1.7600.16385_n
120 1,C:\Windows\System32\DriverStore\FileRepository\adpu320.inf_amd64_neutral_4ea3d42a9839982a
121 1,C:\Windows\System32\WindowsPowerShell\v1.0\Modules\AppLocker
122 1,C:\Windows\assembly\NativeImages_v4.0.30319_32\Microsoft.Bfc9dc24d#\5b153cb12d982242817d816f01e63c
123 1,C:\Program Files (x86)\Tanium\Tanium Client\Downloads\Action_56\grep\share\locale\da\LC_MESSAGES
124 1,C:\Windows\winsxs\amd64_microsoft-windows-t..framework-migration_31bf3856ad364e35_6.1.7600.16385_n
125 1,C:\Windows\winsxs\x86_microsoft.windows.c..-controls.resources_6595b64144ccf1df_5.82.7600.16385_th
126 1,C:\Windows\winsxs\x86_microsoft-windows-mediaplayer-migration_31bf3856ad364e35_6.1.7601.17514_none
127 1,C:\Windows\winsxs\x86_microsoft-windows-tapiadmin_31bf3856ad364e35_6.1.7601.17514_none_5fbc6ff536e
128 1,C:\Windows\winsxs\wow64_microsoft-windows-security-kerberos_31bf3856ad364e35_6.1.7601.18606_none_4
129 1,C:\Windows\winsxs\x86_microsoft-windows-sendmail.resources_31bf3856ad364e35_6.1.7600.16385_en-us_e
130 1,C:\Windows\winsxs\amd64_microsoft-windows-i..onal-codepage-20423_31bf3856ad364e35_6.1.7600.16385_n
131 1,C:\Windows\assembly\GAC_MSIL\Microsoft.SqlServer.Management.RegisteredServers\10.0.0.0__89845dcd80
132 1,C:\Windows\winsxs\amd64_microsoft-windows-mediaplayer-wmvsdk_31bf3856ad364e35_6.1.7601.17514_none_
133 1,C:\Windows\winsxs\amd64_microsoft-windows-m..readwrite.resources_31bf3856ad364e35_6.1.7600.16385_e
134 1,C:\Windows\winsxs\msil_microsoft.visualbasic_b03f5f7f11d50a3a_6.1.7601.22733_none_6b1e5248d77e003d
135 1,C:\Windows\winsxs\amd64_server-help-h1s.perfmon.resources_31bf3856ad364e35_6.1.7600.16385_en-us_e6
136 1,C:\Users\Jim Olsen\AppData\Local\Microsoft\Internet Explorer
137 1,C:\Program Files\VMware\VMware Tools\plugins\vmsvc
138 1,C:\Windows\winsxs\x86_microsoft-windows-p..age-codec.resources_31bf3856ad364e35_7.1.7601.16492_fr-
139 1,C:\Windows\winsxs\amd64_microsoft-windows-t..teconnectionmanager_31bf3856ad364e35_6.1.7601.22750_n
140 1,C:\Windows\winsxs\amd64_microsoft-windows-fmifs_31bf3856ad364e35_6.1.7600.16385_none_b303632c4b483
141 1,C:\Windows\winsxs\amd64_microsoft-windows-f..rcluster-powershell_31bf3856ad364e35_6.1.7601.17514_n
142 1,C:\Windows\winsxs\amd64_netfx-mscorpe_dll_b03f5f7f11d50a3a_6.1.7601.17514_none_8492ec5f045f17f3
143 1,C:\Windows\winsxs\amd64_mdmusrg.inf_31bf3856ad364e35_6.1.7600.16385_none_ef6d0c5fba40766d
144 1,C:\Program Files (x86)\Tanium\Tanium Client\Downloads\Action_53\grep\share\locale\es\LC_MESSAGES
145 1,C:\Windows\winsxs\amd64_microsoft-windows-b..tiondata-com-server_31bf3856ad364e35_6.1.7601.17514_n
146 1,C:\Windows\winsxs\amd64_netfx-system.xml_b03f5f7f11d50a3a_6.1.7601.22740_none_4a87840c55cea28e
147 1,C:\Windows\winsxs\x86_microsoft-windows-com-dtc-setup_31bf3856ad364e35_6.1.7600.16385_none_8da1fd2
148 1,C:\Windows\winsxs\amd64_microsoft-windows-iis-aspbinaries_31bf3856ad364e35_6.1.7601.17514_none_eaa
```

```
149  1,C:\Windows\System32\wbem\Logs
150  1,C:\Windows\winsxs\amd64_microsoft-windows-usp_31bf3856ad364e35_6.1.7601.22666_none_0b75f5788860623
151  1,C:\Windows\winsxs\amd64_wcf-icardagt_exe_31bf3856ad364e35_6.1.7600.16385_none_8dcc9c6f8b58a5eb
152  1,C:\Windows\Microsoft.NET\assembly\GAC_MSIL\System.Diagnostics.Debug
153  1,C:\Python27\Lib\encodings
154  1,C:\Windows\assembly\NativeImages_v4.0.30319_32\Microsoft.A7373a429#\ab9e962308894f7a534dd3aaa055c5
155  1,C:\Windows\winsxs\amd64_microsoft-windows-server-editions-matrix_31bf3856ad364e35_6.1.7601.17514_n
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159  1,C:\Windows\assembly\NativeImages_v4.0.30319_32\System.Runteb92aa12#
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161  1,C:\Windows\assembly\GAC_MSIL\System.Runtime.Serialization.Formatters.Soap\2.0.0.0__b03f5f7f11d50a3
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163  1,C:\Program Files (x86)\Tanium\Tanium Client\Downloads\Action_26\grep\share\locale\fi\LC_MESSAGES
164  1,C:\Windows\winsxs\amd64_microsoft-windows-scripting-jscript9_31bf3856ad364e35_11.2.9600.17239_none
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166  1,C:\Windows\winsxs\amd64_microsoft-windows-m..ds-ce-rll.resources_31bf3856ad364e35_6.1.7600.16385_e
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175  1,C:\Users\Jim Olsen\AppData\Local\Google\Chrome\User Data\Default\Extensions\apdfllckaahabafndbhiea
176  1,C:\Windows\winsxs\amd64_microsoft-windows-k..distribution-center_31bf3856ad364e35_6.1.7601.18658_n
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178  1,C:\Windows\Microsoft.NET\assembly\GAC_MSIL\System.Workflow.ComponentModel\v4.0_4.0.0.0__31bf3856ad
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182  1,C:\Windows\System32\migration
183  1,C:\Windows\winsxs\x86_microsoft-windows-media-mp3acm.resources_31bf3856ad364e35_6.1.7600.16385_en-
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185  1,C:\Windows\assembly\NativeImages_v2.0.50727_64\System.Printing
186  1,C:\Windows\winsxs\x86_microsoft-windows-wab-app_31bf3856ad364e35_6.1.7601.17514_none_44b0c76c35d4b
187  1,C:\Windows\winsxs\amd64_microsoft-windows-telephonyserver_31bf3856ad364e35_6.1.7600.16385_none_2a1
188  1,C:\Windows\System32\migration\en-US
189  1,C:\Windows\PCHEALTH\ERRORREP
190  1,C:\Windows\winsxs\amd64_microsoft.windows.c..-controls.resources_6595b64144ccf1df_5.82.7600.16385_
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192  1,C:\Windows\winsxs\x86_microsoft-windows-s..t-tracker.resources_31bf3856ad364e35_6.1.7600.16385_en-
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194  1,C:\Windows\Microsoft.NET\assembly\GAC_MSIL\System.Linq.Queryable
195  1,C:\Windows\assembly\NativeImages_v4.0.30319_64\System.Wind0de890be#
196  1,C:\Windows\winsxs\amd64_adfs-upgrademb-files_31bf3856ad364e35_6.1.7600.16385_none_fbd0c34fcbe686a6
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198  1,C:\Windows\winsxs\x86_microsoft-windows-m..river-rll.resources_31bf3856ad364e35_6.1.7600.16385_en-
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202  1,C:\Windows\assembly\GAC_32\Policy.1.2.Microsoft.Interop.Security.AzRoles
203  1,C:\Users\Default\Pictures
204  1,C:\ProgramData\Microsoft\User Account Pictures
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206  1,C:\Windows\Microsoft.NET\assembly\GAC_32\WebDev.WebHost40
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210  1,C:\Windows\assembly\GAC_MSIL\Microsoft.SqlServer.Management.SystemMetadataProvider
211  1,C:\Windows\System32\DriverStore\FileRepository\mdmati.inf_amd64_neutral_ded8f26cdee953c3
212  1,C:\Windows\winsxs\amd64_microsoft-windows-s..ssmanager.resources_31bf3856ad364e35_6.1.7600.16385_e
213  1,C:\Python27\Lib\json\tests
214  1,C:\Windows\Microsoft.NET\assembly\GAC_MSIL\Microsoft.VisualStudio.DataDesign.WpfDataTool\v4.0_10.0
215  1,C:\Windows\winsxs\amd64_wiaca00c.inf.resources_31bf3856ad364e35_6.1.7600.16385_en-us_2a6c49c557aaa
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225  1,C:\Windows\assembly\NativeImages_v2.0.50727_32\WindowsBase
226  1,C:\Windows\ServiceProfiles\NetworkService\AppData\Local\Microsoft
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229  1,C:\Windows\winsxs\wow64_microsoft-windows-security-kerberos_31bf3856ad364e35_6.1.7601.17514_none_4
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231  1,C:\Windows\assembly\GAC_MSIL\Microsoft.Security.ApplicationId.Wizards.AutomaticRuleGenerationWizar
232  1,C:\Windows\winsxs\amd64_microsoft-windows-ie-imagesupport_31bf3856ad364e35_8.0.7600.16385_none_b4a
233  1,C:\Windows\winsxs\amd64_tsprint.inf.resources_31bf3856ad364e35_6.1.7600.16385_en-us_94fa9583519bc0
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235  1,C:\Windows\System32\en-US\Licenses\OEM\ServerSBSStandard
236  1,C:\Windows\assembly\GAC_MSIL\EventViewer.Resources\6.1.0.0_en_31bf3856ad364e35
237  1,C:\Users\Jim Olsen\Recent
238  1,C:\Windows\winsxs\amd64_microsoft-windows-s..lders-adm.resources_31bf3856ad364e35_6.1.7600.16385_e
239  1,C:\Windows\assembly\GAC_MSIL\System.DirectoryServices.Protocols\2.0.0.0__b03f5f7f11d50a3a
240  1,C:\Windows\winsxs\amd64_netrndis.inf_31bf3856ad364e35_6.1.7601.17887_none_259febb55ca2345a
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242  1,C:\Windows\winsxs\amd64_networking-mpssvc.resources_31bf3856ad364e35_6.1.7600.16385_en-us_24b3cfe4
243  1,C:\Windows\winsxs\wow64_microsoft-windows-p..ll-events.resources_31bf3856ad364e35_6.1.7600.16385_e
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246  1,C:\Windows\Microsoft.NET\assembly\GAC_MSIL\System.ServiceModel.Channels\v4.0_4.0.0.0__31bf3856ad36
247  1,C:\Program Files (x86)\Microsoft SQL Server\110\Tools\Binn\ManagementStudio\SqlWorkbenchProjectIte
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249  1,C:\Windows\winsxs\x86_wpf-presentationframework.luna_31bf3856ad364e35_6.1.7601.17514_none_33660260
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251  1,C:\Windows\winsxs\amd64_microsoft-windows-dims-autoenroll_31bf3856ad364e35_6.1.7600.16385_none_500
252  1,C:\Windows\winsxs\wow64_microsoft-windows-uianimation.resources_31bf3856ad364e35_7.1.7601.16492_es
253  1,C:\Windows\winsxs\amd64_microsoft-windows-g..me-snapin.resources_31bf3856ad364e35_6.1.7600.16385_e
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257  1,C:\Program Files (x86)\Tanium\Tanium Client\Downloads\Action_9024\grep\share\locale\nl\LC_MESSAGES
258  1,C:\Program Files\Common Files\Microsoft Shared\VS7Debug
259  1,C:\Program Files (x86)\Microsoft SQL Server\110\Tools\Binn\ManagementStudio\SqlWorkbenchProjectIte
260  1,C:\Windows\winsxs\amd64_microsoft-windows-ie-jscriptdebugui_31bf3856ad364e35_8.0.7601.17514_none_3
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262  1,C:\Windows\winsxs\x86_microsoft-windows-n..ion-agent.resources_31bf3856ad364e35_6.1.7600.16385_en-
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277  1,C:\Windows\winsxs\msil_microsoft.virtualiz..ent.rdpclientaxhost_31bf3856ad364e35_6.1.7600.16385_nc
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279  1,C:\Program Files\Tanium\Tanium Server\Apache24\manual\style
280  1,C:\Windows\Microsoft.NET\assembly\GAC_MSIL\Microsoft.SqlServer.MSMQTask
281  1,C:\Windows\winsxs\x86_microsoft-windows-m..cursor-library-ansi_31bf3856ad364e35_6.1.7601.21747_non
282  1,C:\Windows\winsxs\amd64_microsoft-windows-c..rtadm-dll.resources_31bf3856ad364e35_6.1.7600.16385_e
283  1,C:\Windows\System32\en-US\Licenses\_Default\ServerSolutionsPremium
284  1,C:\Windows\winsxs\amd64_microsoft-windows-cdosys.resources_31bf3856ad364e35_6.1.7601.17514_he-il_a
285  1,C:\Windows\SysWOW64\drivers\en-US
286  1,C:\Program Files (x86)\Tanium\Tanium Client\Downloads\Action_48\grep\share\locale\ga\LC_MESSAGES
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311  1,C:\Windows\winsxs\x86_microsoft-windows-m..s-mdac-odbc-cpxl437_31bf3856ad364e35_6.1.7600.16385_non
312  1,C:\Windows\winsxs\x86_microsoft-windows-m..uxiliarydisplay-api_31bf3856ad364e35_6.1.7600.16385_non
313  1,C:\Windows\winsxs\amd64_microsoft-windows-r..licensing-component_31bf3856ad364e35_6.1.7601.17514_n
314  1,C:\Program Files (x86)\Microsoft SQL Server\90
315  1,C:\Program Files (x86)\Tanium\Tanium Client\Downloads\Action_9028\grep\share\locale\ko\LC_MESSAGES
316  1,C:\Windows\winsxs\msil_system.web.routing_31bf3856ad364e35_6.1.7601.17514_none_1a58be6d26032dfe
317  1,C:\Program Files (x86)\Microsoft SQL Server\80
318  1,C:\Windows\winsxs\amd64_microsoft-windows-security-schannel-mof_31bf3856ad364e35_6.1.7600.16385_nc
319  1,C:\Windows\winsxs\wow64_microsoft-windows-audio-audiocore_31bf3856ad364e35_6.1.7601.17514_none_df1
320  1,C:\Windows\winsxs\amd64_netfx-system.directoryservices_b03f5f7f11d50a3a_6.1.7601.22126_none_ffe9f7
321  1,C:\Program Files (x86)\Microsoft SDKs\Windows\v7.0A
322  1,C:\Program Files (x86)\Tanium\Tanium Client\Downloads\Action_26\grep\share\locale\pt\LC_MESSAGES
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327  1,C:\Windows\inf\TermService\0409
328  1,C:\Windows\assembly\NativeImages_v2.0.50727_64\System.Messaging
329  1,C:\Windows\winsxs\amd64_microsoft-windows-d2d.resources_31bf3856ad364e35_7.1.7601.16492_pt-pt_e934
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338  1,C:\Program Files (x86)\Tanium\Tanium Client\Downloads\Action_18\grep\share\locale\da\LC_MESSAGES
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346  1,C:\Windows\winsxs\msil_smsvchost_b03f5f7f11d50a3a_6.1.7601.22743_none_cfeb95652ab9a380
347  1,C:\Windows\winsxs\amd64_microsoft-windows-ie-f12-provider_31bf3856ad364e35_11.2.9600.17420_none_bd
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356  1,C:\Windows\winsxs\x86_netfx-aspnet_wp_exe_b03f5f7f11d50a3a_6.1.7601.18205_none_99441e0948ed8ae7
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359  1,C:\Program Files (x86)\Tanium\Tanium Client\Downloads\Action_37\grep\share\locale\nl\LC_MESSAGES
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477  1,C:\Windows\winsxs\x86_microsoft-windows-d..computers.resources_31bf3856ad364e35_6.1.7601.17514_en-
478  1,C:\Windows\Microsoft.NET\assembly\GAC_MSIL\Microsoft.VisualStudio.Editors\v4.0_10.0.0.0__b03f5f7f1
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493  1,C:\Program Files (x86)\Microsoft SQL Server\110\Tools\Binn\ManagementStudio\SqlWorkbenchProjectIte
494  1,C:\Windows\winsxs\x86_system.web.security..non.claimtransforms_31bf3856ad364e35_6.1.7600.16385_non
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528  1,C:\Windows\Microsoft.NET\Framework64\v4.0.30319\SetupCache
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705  1,C:\Windows\winsxs\amd64_policy.1.2.microsof..op.security.azroles_31bf3856ad364e35_6.1.7600.16385_n
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710  1,C:\Windows\winsxs\amd64_microsoft-windows-help-efs.resources_31bf3856ad364e35_6.1.7600.16385_en-us
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712  1,C:\Windows\winsxs\msil_microsoft.storage.sancommon.ui_31bf3856ad364e35_6.1.7600.16385_none_ae1ac5c
713  1,C:\Windows\assembly\GAC_MSIL\Microsoft.ReportViewer.WebForms.resources\11.0.0.0_ru_89845dcd8080cc9
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726  1,C:\Windows\winsxs\amd64_microsoft-windows-crypt32-dll_31bf3856ad364e35_6.1.7601.18205_none_b9a17b0
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733   1,C:\Windows\assembly\GAC_64\PresentationCore
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779   1,C:\Users\Jim Olsen\Documents\SQL Server Management Studio\Templates\ItemTemplates
780   1,C:\Windows\Microsoft.NET\assembly\GAC_MSIL\System.Windows.Controls.Ribbon\v4.0_4.0.0.0__b77a5c5619
781   1,C:\Windows\winsxs\x86_microsoft-windows-m..do-backcompat-tlb20_31bf3856ad364e35_6.1.7601.17514_non
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809  1,C:\Windows\winsxs\amd64_microsoft-windows-i..onal-codepage-28592_31bf3856ad364e35_6.1.7600.16385_n
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814  1,C:\ProgramData\Microsoft\Windows\Ringtones
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859  1,C:\Program Files (x86)\Tanium\Tanium Client\Downloads\Action_9028\grep\share\locale\pt_BR\LC_MESSA
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883  1,C:\Program Files\Common Files\Microsoft Shared\ink\ru-RU
884  1,C:\Windows\SysWOW64\IME\imekr8\dicts
885  1,C:\Windows\winsxs\x86_microsoft-windows-s..-binaries.resources_31bf3856ad364e35_6.1.7601.17514_ja-
886  1,C:\Windows\winsxs\x86_microsoft-windows-tapi2xclient.resources_31bf3856ad364e35_6.1.7600.16385_en-
887  1,C:\Windows\winsxs\amd64_wpf-presentationhostdll_31bf3856ad364e35_6.1.7601.17755_none_ce07370e36be4
888  1,C:\Windows\winsxs\msil_system.messaging_b03f5f7f11d50a3a_6.1.7601.18523_none_020fbc17e044566c
889  1,C:\Program Files (x86)\Tanium\Tanium Client\Downloads\Action_53\grep\share\locale\sr\LC_MESSAGES
890  1,C:\Users\MSSQL$SQLEXPRESS\AppData\Roaming\Microsoft\Internet Explorer\Quick Launch
891  1,C:\Windows\winsxs\amd64_microsoft-windows-tabletpc-uihub_31bf3856ad364e35_6.1.7600.16385_none_6f7e
892  1,C:\Program Files\Microsoft SQL Server\110\DTS\ForEachEnumerators\en
893  1,C:\Windows\winsxs\amd64_microsoft-windows-msf.resources_31bf3856ad364e35_6.1.7601.17514_en-us_810c
894  1,C:\Windows\assembly\NativeImages_v2.0.50727_32\Microsoft.GroupPoli#\fb058c5e3b9d3af4bfa69811b3a498
895  1,C:\Windows\SysWOW64\en-US\Licenses\_Default\ServerMediumBusinessSecurity
896  1,C:\Windows\winsxs\wow64_microsoft-windows-mfmjpegdec_31bf3856ad364e35_6.1.7600.16385_none_7fa793ba
897  1,C:\Windows\winsxs\amd64_microsoft-windows-i..riptedsandboxplugin_31bf3856ad364e35_11.2.9600.17420_
898  1,C:\Windows\winsxs\x86_microsoft-windows-m..ac-sql-cliconfg-rll_31bf3856ad364e35_6.1.7600.16385_non
899  1,C:\Program Files (x86)\Tanium\Tanium Client\Downloads\Action_21\grep\share\locale\lt\LC_MESSAGES
900  1,C:\Program Files (x86)\Tanium\Tanium Client\Tools\StdUtils\grep\share\locale\zh_TW
901  1,C:\Program Files (x86)\Tanium\Tanium Client\Downloads\Action_64\grep\share\locale\pt_BR\LC_MESSAGE
902  1,C:\Windows\winsxs\amd64_microsoft-windows-s..y-spp-wmi.resources_31bf3856ad364e35_6.1.7600.16385_e
```

```
903  1,C:\Program Files (x86)\Tanium\Tanium Client\Downloads\Action_34\hash
904  1,C:\Windows\winsxs\amd64_microsoft-windows-d..s-ime-japanese-core_31bf3856ad364e35_6.1.7601.18556_n
905  1,C:\Windows\winsxs\amd64_microsoft-windows-p..rtmonitor.resources_31bf3856ad364e35_6.1.7600.16385_e
906  1,C:\Program Files (x86)\Common Files\microsoft shared\MSEnv\1033
907  1,C:\Windows\assembly\NativeImages_v4.0.30319_32\Presentatio84a6349c#\63e9d81bd805aea8f8690fee2efc9a
908  1,C:\Windows\winsxs\x86_microsoft-windows-m..do-backcompat-tlb25_31bf3856ad364e35_6.1.7601.17514_non
909  1,C:\Windows\winsxs\amd64_microsoft-windows-help-adm_31bf3856ad364e35_6.1.7600.16385_none_893d90cda5
910  1,C:\Windows\assembly\NativeImages_v2.0.50727_32\StorageMgmt
911  1,C:\Windows\winsxs\amd64_microsoft-windows-ie-memoryanalyzer_31bf3856ad364e35_11.2.9600.17420_none_
912  1,C:\Windows\winsxs\amd64_microsoft-windows-gc-usbforcereboot_31bf3856ad364e35_6.1.7601.18328_none_9
913  1,C:\Windows\winsxs\x86_microsoft-windows-f..temcompareutilities_31bf3856ad364e35_6.1.7600.16385_non
914  1,C:\Windows\winsxs\amd64_microsoft.vc80.mfc_1fc8b3b9a1e18e3b_8.0.50727.1833_none_8442d417329336b1
915  1,C:\Windows\winsxs\amd64_microsoft-windows-ie-antiphishfilter_31bf3856ad364e35_11.2.9600.17420_none
916  1,C:\Windows\winsxs\amd64_prnkm004.inf_31bf3856ad364e35_6.1.7600.16385_none_50ff82015b97b704
917  1,C:\Windows\winsxs\wow64_microsoft-windows-msxml60_31bf3856ad364e35_6.1.7601.17514_none_f0e8ac03e1d
918  1,C:\Windows\winsxs\amd64_prnep00b.inf.resources_31bf3856ad364e35_6.1.7600.16385_en-us_6cfd9c5115587
919  1,C:\Windows\Migration\WTR
920  1,C:\Windows\winsxs\amd64_microsoft.windows.c..-controls.resources_6595b64144ccf1df_5.82.7600.16385_
921  1,C:\Windows\winsxs\amd64_microsoft-windows-installer-engine_31bf3856ad364e35_6.1.7601.18604_none_61
922  1,C:\Windows\winsxs\amd64_microsoft-windows-u..assdriver.resources_31bf3856ad364e35_6.1.7600.16385_e
923  1,C:\Windows\Microsoft.NET\assembly\GAC_MSIL\Microsoft.SqlServer.FTPTaskUI
924  1,C:\Windows\Microsoft.NET\assembly\GAC_MSIL\System.IdentityModel.Services\v4.0_4.0.0.0__b77a5c56193
925  1,C:\Users\All Users\Microsoft\Windows\Sqm\Sessions
926  1,C:\Windows\winsxs\x86_microsoft-windows-p..topeercollab-client_31bf3856ad364e35_6.1.7600.16385_non
927  1,C:\Windows\winsxs\x86_microsoft-windows-nddeapi.resources_31bf3856ad364e35_6.1.7600.16385_en-us_de
928  1,C:\Windows\System32\ko-KR
929  1,C:\Program Files (x86)\Tanium\Tanium Client\Downloads\Action_9027\grep\share\locale
930  1,C:\Windows\winsxs\x86_microsoft-windows-authentication-authui_31bf3856ad364e35_6.1.7601.18276_none
931  1,C:\Windows\winsxs\x86_netfx-mscorsn_dll_b03f5f7f11d50a3a_6.1.7600.16385_none_6adff9151d65c2d5
932  1,C:\Windows\winsxs\amd64_microsoft-windows-e..yphenation.binaries_31bf3856ad364e35_6.3.9600.16428_n
933  1,C:\Program Files (x86)\Tanium\Tanium Client\Downloads\Action_47\grep\share\locale\hu\LC_MESSAGES
934  1,C:\Windows\winsxs\amd64_microsoft-windows-help-netwl.resources_31bf3856ad364e35_6.1.7600.16385_en-
935  1,C:\Windows\winsxs\amd64_microsoft-windows-i..eyboard-korean_101c_31bf3856ad364e35_6.1.7600.16385_n
936  1,C:\Windows\winsxs\amd64_microsoft-windows-t..languages.resources_31bf3856ad364e35_6.1.7601.17514_i
937  1,C:\Windows\winsxs\x86_microsoft-windows-comdlg32.resources_31bf3856ad364e35_6.1.7601.17514_sl-si_d
938  1,C:\Windows\winsxs\wow64_microsoft-windows-powershell-sip_31bf3856ad364e35_6.1.7600.16385_none_ceb8
939  1,C:\Windows\winsxs\x86_netfx35linq-framework_assemblylist_31bf3856ad364e35_6.1.7600.16385_none_d234
940  1,C:\Windows\assembly\GAC_MSIL\Microsoft.VisualBasic
941  1,C:\Program Files (x86)\Tanium\Tanium Client\Tools\StdUtils\grep\share\locale\vi\LC_MESSAGES
942  1,C:\Program Files (x86)\Tanium\Tanium Client\Downloads\Action_9029\grep\manifest
943  1,C:\Windows\assembly\NativeImages_v4.0.30319_32\SQLEditors\5923730fbc3770c5d8c2dda267336f97
944  1,C:\Windows\winsxs\amd64_wcf-m_tx_bridge_perf_c_vrg_31bf3856ad364e35_6.1.7600.16385_none_de4eced846
945  1,C:\Windows\winsxs\amd64_microsoft-windows-i..osticstap.resources_31bf3856ad364e35_11.2.9600.17041_
946  1,C:\Windows\assembly\NativeImages_v2.0.50727_32\Microsoft.Exception#
947  1,C:\Windows\winsxs\amd64_microsoft-windows-cdosys_31bf3856ad364e35_6.1.7601.22012_none_7cf37f9a5523
948  1,C:\Windows\assembly\NativeImages_v4.0.30319_32\Microsoft.V016a48a9#\dca518bff4a7b719811ff4404a5f9a
949  1,C:\Windows\winsxs\x86_microsoft-windows-iscsi_initiator_ui_31bf3856ad364e35_6.1.7600.16385_none_d7
950  1,C:\Windows\winsxs\wow64_microsoft-windows-p..st-common.resources_31bf3856ad364e35_6.1.7600.16385_e
951  1,C:\Windows\assembly\GAC_32\Microsoft.Interop.Security.AzRoles\2.0.0.0__31bf3856ad364e35
952  1,C:\inetpub
953  1,C:\Windows\assembly\GAC_32\Microsoft.Security.ApplicationId.PolicyManagement.PolicyEngineApi.Inter
954  1,C:\Windows\System32\DriverStore\FileRepository\ehstorcertdrv.inf_amd64_neutral_2e1cecffae9c899a
955  1,C:\Windows\winsxs\amd64_microsoft-windows-webio_31bf3856ad364e35_6.1.7601.21861_none_bb60cfaa0e9b9
956  1,C:\Windows\assembly\NativeImages_v4.0.30319_64\WindowsForm0b574481#\2834e3e61ca12bfe75e0db1ab843f0
957  1,C:\Program Files (x86)\Tanium\Tanium Client\Downloads\Action_51\grep\share\locale\tr\LC_MESSAGES
958  1,C:\Windows\winsxs\msil_microsoft.windows.s..downlevel.resources_31bf3856ad364e35_6.1.7600.16385_en
959  1,C:\Program Files (x86)\Tanium\Tanium Client\Downloads\Action_9032\grep\share\locale\ky\LC_MESSAGES
960  1,C:\Windows\assembly\NativeImages_v2.0.50727_32\DBMaintenanceProper#
```

```
961  1,C:\Windows\winsxs\amd64_microsoft-windows-i..tional-codepage-855_31bf3856ad364e35_6.1.7600.16385_n
962  1,C:\Windows\Microsoft.NET\assembly\GAC_MSIL\Microsoft.SqlServer.ForEachSMOEnumerator
963  1,C:\Windows\Resources\Themes\aero\en-US
964  1,C:\Windows\Microsoft.NET\assembly\GAC_MSIL\Microsoft.VisualStudio.Language.CallHierarchy.Implement
965  1,C:\Program Files (x86)\Microsoft SQL Server\110\Tools\Binn\ManagementStudio\Tools\VDT
966  1,C:\Windows\winsxs\amd64_microsoft-windows-f..client-applications_31bf3856ad364e35_6.1.7601.17514_n
967  1,C:\Windows\winsxs\x86_microsoft-windows-directwrite.resources_31bf3856ad364e35_7.1.7601.16492_en-u
968  1,C:\Windows\winsxs\amd64_ql2300.inf.resources_31bf3856ad364e35_6.1.7600.16385_en-us_5504a7062024cd6
969  1,C:\Windows\Boot\PCAT\tr-TR
970  1,C:\Windows\winsxs\x86_microsoft-windows-rasapi.resources_31bf3856ad364e35_6.1.7600.16385_en-us_5ca
971  1,C:\Windows\assembly\NativeImages_v4.0.30319_32\Microsoft.Sbc3e7d8b#\1db0016f8610618627a09787dfeadf
972  1,C:\Windows\winsxs\wow64_microsoft-windows-scripting-jscript9_31bf3856ad364e35_11.2.9600.17041_none
973  1,C:\Windows\winsxs\x86_netfx-dw_b03f5f7f11d50a3a_6.1.7600.16385_none_a223bd3dd785391a
974  1,C:\Windows\winsxs\amd64_microsoft-windows-ntshrui.resources_31bf3856ad364e35_6.1.7600.16385_en-us_
975  1,C:\Windows\winsxs\x86_microsoft-windows-m..ents-mdac-ado15-dll_31bf3856ad364e35_6.1.7601.22012_non
976  1,C:\Windows\winsxs\msil_system.design_b03f5f7f11d50a3a_6.1.7601.18027_none_89a71b7bbfc222d5
977  1,C:\Windows\winsxs\x86_microsoft.windows.c..-controls.resources_6595b64144ccf1df_5.82.7600.16385_ar
978  1,C:\Windows\assembly\NativeImages_v2.0.50727_32\Microsoft.SqlServer#\6757f938c588faa0c4adadaf13e99d
979  1,C:\Windows\winsxs\msil_microsoft.web.manag..davclient.resources_31bf3856ad364e35_6.1.7600.16385_en
980  1,C:\Windows\winsxs\x86_microsoft-windows-ie-ieproxy_31bf3856ad364e35_11.2.9600.17280_none_1683b5a3a
981  1,C:\Windows\winsxs\x86_microsoft-windows-t..s-clientactivexcore_31bf3856ad364e35_6.1.7601.22252_non
982  1,C:\Windows\winsxs\x86_microsoft-windows-l..anagement.resources_31bf3856ad364e35_6.1.7600.16385_en-
983  1,C:\Windows\winsxs\x86_microsoft-windows-m..drivermanager-trace_31bf3856ad364e35_6.1.7601.17514_non
984  1,C:\Windows\System32\DriverStore\FileRepository\mdmtexas.inf_amd64_neutral_7572473d88d69307
985  1,C:\Windows\winsxs\amd64_netb57va.inf_31bf3856ad364e35_6.1.7600.16385_none_581eb8ede4375d14
986  1,C:\Windows\assembly\NativeImages_v4.0.30319_32\Microsoft.V6b191eba#\1a7713f13762d91d7a81ffbcc5af1b
987  1,C:\Windows\winsxs\amd64_microsoft-windows-wpfcorecomp.resources_31bf3856ad364e35_6.1.7601.18523_en
988  1,C:\Windows\winsxs\amd64_microsoft-windows-wmi-provider-common_31bf3856ad364e35_6.1.7600.16385_none
989  1,C:\Windows\Microsoft.NET\Framework64\v4.0.30319\Temporary ASP.NET Files
990  1,C:\Windows\winsxs\x86_microsoft-windows-b..oad-isapi.resources_31bf3856ad364e35_6.1.7600.16385_en-
991  1,C:\Windows\winsxs\amd64_microsoft-windows-csrsrv_31bf3856ad364e35_6.1.7601.22780_none_27e713c1d557
992  1,C:\Windows\assembly\NativeImages_v2.0.50727_32\Microsoft.SqlServer#\f6d66dfe197ba500d1bfc2ba819d1d
993  1,C:\Windows\winsxs\amd64_usbprint.inf.resources_31bf3856ad364e35_6.1.7600.16385_en-us_754e23e2d8178
994  1,C:\Windows\winsxs\amd64_microsoft-windows-powercpl_31bf3856ad364e35_6.1.7601.17514_none_c006f86a8a
995  1,C:\Windows\winsxs\x86_system.data.oracleclient_b77a5c561934e089_6.1.7601.22733_none_b0c6aa2ab370fe
996  1,C:\Windows\winsxs\amd64_microsoft-windows-i..henticationbinaries_31bf3856ad364e35_6.1.7600.16385_n
997  1,C:\Users\Jim Olsen\AppData\Local\Microsoft\Internet Explorer\Recovery
998  1,C:\ProgramData\Package Cache\{ca67548a-5ebe-413a-b50c-4b9ceb6d66c6}
999  1,C:\Windows\winsxs\amd64_microsoft-windows-p..ng-server-isolation_31bf3856ad364e35_6.1.7600.16385_n
1000 1,C:\Windows\winsxs\x86_microsoft-windows-upnpssdp.resources_31bf3856ad364e35_6.1.7600.16385_en-us_9
1001 1,C:\Windows\assembly\NativeImages_v2.0.50727_32\Microsoft.SqlServer#\db94f1de3f94749e5e9cbe3eeee67e
1002 1,C:\Windows\winsxs\x86_microsoft-windows-photoscreensaver_31bf3856ad364e35_6.1.7601.17514_none_6dd5
1003 1,C:\Windows\winsxs\amd64_prnbr007.inf_31bf3856ad364e35_6.1.7600.16385_none_4c7695ac41c77cab\Amd64
1004 1,C:\Windows\winsxs\amd64_microsoft-windows-s..-downlevel.binaries_31bf3856ad364e35_6.3.9600.16428_n
1005 1,C:\Windows\Boot\PCAT\sv-SE
1006 1,C:\Program Files (x86)\Microsoft SQL Server\110\Tools\Binn\ManagementStudio\SqlWorkbenchProjectIte
1007 1,C:\Windows\Microsoft.NET\assembly\GAC_32\Microsoft.VisualStudio.Modeling.Sdk.Diagrams.GraphObject.
1008 1,C:\Windows\winsxs\amd64_ds-ui-ext.resources_31bf3856ad364e35_6.1.7600.16385_en-us_7a2b039113f0c5bf
1009 1,C:\Windows\Installer\{83F2B8F4-5CF3-4BE9-9772-9543EAE4AC5F}
1010 1,C:\Windows\SysWOW64\NetworkList\Icons\StockIcons
1011 1,C:\Windows\winsxs\amd64_microsoft-windows-com-dtc-runtime-tm_31bf3856ad364e35_6.1.7601.17514_none_
1012 1,C:\Windows\winsxs\x86_microsoft-windows-r..-commandline-editor_31bf3856ad364e35_6.1.7600.16385_non
1013 1,C:\Program Files (x86)\Tanium\Tanium Client\Downloads\Action_9026\grep\share\locale\ja\LC_MESSAGES
1014 1,C:\Windows\Microsoft.NET\assembly\GAC_MSIL\System.Diagnostics.Debug\v4.0_4.0.0.0__b03f5f7f11d50a3a
1015 1,C:\Program Files (x86)\Tanium\Tanium Client\Downloads\Action_46\grep\share\locale\zh_TW\LC_MESSAGE
1016 1,C:\Windows\winsxs\amd64_microsoft-windows-webdavredir-mrxdav_31bf3856ad364e35_6.1.7601.17514_none_
1017 1,C:\Windows\winsxs\amd64_tsportalweb_31bf3856ad364e35_6.1.7600.16385_none_9dbdffcbeee4e7d9
1018 1,C:\Windows\assembly\GAC_MSIL\Microsoft.SqlServer.Management.Utility\11.0.0.0__89845dcd8080cc91
```

```
1019   1,C:\Program Files (x86)\Microsoft SQL Server\110\Tools\Binn\ManagementStudio\SQL\Snippets\1033\User
1020   1,C:\Windows\winsxs\amd64_netfx-peverify_dll_b03f5f7f11d50a3a_6.1.7601.18523_none_2946b69ff1fd271f
1021   1,C:\Windows\Microsoft.NET\assembly\GAC_MSIL\Microsoft.VisualStudio.Modeling.Sdk.Integration.Shell.1
1022   1,C:\Program Files\Tanium\Tanium Server\Apache24\htdocs\php\Auth
1023   1,C:\Windows\winsxs\amd64_display.inf.resources_31bf3856ad364e35_6.1.7600.16385_en-us_8bb90e0956a02a
1024   1,C:\Windows\assembly\NativeImages_v4.0.30319_32\Microsoft.V4c263b4e#\dcfa989c56af05d940045161f24c45
1025   1,C:\Windows\winsxs\amd64_wiasa002.inf.resources_31bf3856ad364e35_6.1.7600.16385_en-us_499baeb321ffb
1026   1,C:\Windows\assembly\NativeImages_v4.0.30319_64\Microsoft.S01b51732#\6ddb0f166671ce822952710f5ca0ed
1027   1,C:\Windows\winsxs\x86_microsoft-windows-crypt32-dll_31bf3856ad364e35_6.1.7601.22736_none_5ded146c5
1028   1,C:\Windows\winsxs\amd64_microsoft-windows-whea-troubleshooter_31bf3856ad364e35_6.1.7600.16385_none
1029   1,C:\Program Files\MSBuild\Microsoft\Windows Workflow Foundation\v3.0
1030   1,C:\Program Files\MSBuild\Microsoft\Windows Workflow Foundation\v3.5
1031   1,C:\Windows\winsxs\amd64_microsoft-windows-ie-htmlrendering_31bf3856ad364e35_11.2.9600.17280_none_f
1032   1,C:\Windows\winsxs\amd64_prnrc00c.inf_31bf3856ad364e35_6.1.7600.16385_none_3b11d85d2b1e2536\Amd64
1033   1,C:\Windows\winsxs\x86_microsoft-windows-i..emsupport.resources_31bf3856ad364e35_6.1.7600.16385_en-
1034   1,C:\Windows\winsxs\wow64_microsoft-windows-webio_31bf3856ad364e35_6.1.7601.17725_none_c55b1e0929bab
1035   1,Windows Only
```

Ask manual human question sensor with parameters and filter

Ask a manual question using human strings by referencing the name of a single sensor that takes parameters, but supplying only two of the four parameters that are used by the sensor.

Also supply a sensor filter that limits the column data that is shown to values that match the regex '.*Shared.*'.

No sensor filter options, question filters, or question options supplied.

Example Python Code

```python
1    # Path to lib directory which contains pytan package
2    PYTAN_LIB_PATH = '../lib'
3
4    # connection info for Tanium Server
5    USERNAME = "Tanium User"
6    PASSWORD = "T@n!um"
7    HOST = "172.16.31.128"
8    PORT = "444"
9
10   # Logging conrols
11   LOGLEVEL = 2
12   DEBUGFORMAT = False
13
14   import sys, tempfile
15   sys.path.append(PYTAN_LIB_PATH)
16
17   import pytan
18   handler = pytan.Handler(
19       username=USERNAME,
20       password=PASSWORD,
21       host=HOST,
22       port=PORT,
23       loglevel=LOGLEVEL,
24       debugformat=DEBUGFORMAT,
25   )
26
27   print handler
```

```
28
29   # setup the arguments for the handler method
30   kwargs = {}
31   kwargs["sensors"] = u'Folder Name Search with RegEx Match{dirname=Program Files,regex=Microsoft.*},
32   kwargs["qtype"] = u'manual_human'
33
34   # call the handler with the ask method, passing in kwargs for arguments
35   response = handler.ask(**kwargs)
36   import pprint, io
37
38   print ""
39   print "Type of response: ", type(response)
40
41   print ""
42   print "Pretty print of response:"
43   print pprint.pformat(response)
44
45   print ""
46   print "Equivalent Question if it were to be asked in the Tanium Console: "
47   print response['question_object'].query_text
48
49   # create an IO stream to store CSV results to
50   out = io.BytesIO()
51
52   # call the write_csv() method to convert response to CSV and store it in out
53   response['question_results'].write_csv(out, response['question_results'])
54
55   print ""
56   print "CSV Results of response: "
57   print out.getvalue()
```

Output from Python Code

```
1    Handler for Session to 172.16.31.128:444, Authenticated: True, Version: 6.2.314.3258
2    2014-12-07 01:06:29,156 INFO     question_progress: Results 0% (Get Folder Name Search with RegEx Ma
3    2014-12-07 01:06:34,172 INFO     question_progress: Results 0% (Get Folder Name Search with RegEx Ma
4    2014-12-07 01:06:39,190 INFO     question_progress: Results 50% (Get Folder Name Search with RegEx M
5    2014-12-07 01:06:44,205 INFO     question_progress: Results 50% (Get Folder Name Search with RegEx M
6    2014-12-07 01:06:49,230 INFO     question_progress: Results 50% (Get Folder Name Search with RegEx M
7    2014-12-07 01:06:54,249 INFO     question_progress: Results 100% (Get Folder Name Search with RegEx
8
9    Type of response:  <type 'dict'>
10
11   Pretty print of response:
12   {'question_object': <taniumpy.object_types.question.Question object at 0x1022b2450>,
13    'question_results': <taniumpy.object_types.result_set.ResultSet object at 0x10215ab10>}
14
15   Equivalent Question if it were to be asked in the Tanium Console:
16   Get Folder Name Search with RegEx Match[No, Program Files, No, ] matches "match .*Shared.*" from all
17
18   CSV Results of response:
19   Count,"Folder Name Search with RegEx Match[No, Program Files, No, ]"
20   2,[no results]
```

Ask manual human question sensor with filter and 3 options

Ask a manual question using human strings by referencing the name of a single sensor.

Also supply a sensor filter that limits the column data that is shown to values that contain Windows (which is short hand for regex match against .*Windows.*).

Also supply filter options that re-fetches any cached data that is older than 3600 seconds, matches all values supplied in the filter, and ignores case for any value match of the filter.

No sensor paramaters, question filters, or question options supplied.

Example Python Code

```python
# Path to lib directory which contains pytan package
PYTAN_LIB_PATH = '../lib'

# connection info for Tanium Server
USERNAME = "Tanium User"
PASSWORD = "T@n!um"
HOST = "172.16.31.128"
PORT = "444"

# Logging conrols
LOGLEVEL = 2
DEBUGFORMAT = False

import sys, tempfile
sys.path.append(PYTAN_LIB_PATH)

import pytan
handler = pytan.Handler(
    username=USERNAME,
    password=PASSWORD,
    host=HOST,
    port=PORT,
    loglevel=LOGLEVEL,
    debugformat=DEBUGFORMAT,
)

print handler

# setup the arguments for the handler method
kwargs = {}
kwargs["sensors"] = u'Operating System, that contains Windows, opt:match_all_values, opt:ignore_case
kwargs["qtype"] = u'manual_human'

# call the handler with the ask method, passing in kwargs for arguments
response = handler.ask(**kwargs)
import pprint, io

print ""
print "Type of response: ", type(response)

print ""
print "Pretty print of response:"
print pprint.pformat(response)
```

```
45  print ""
46  print "Equivalent Question if it were to be asked in the Tanium Console: "
47  print response['question_object'].query_text
48
49  # create an IO stream to store CSV results to
50  out = io.BytesIO()
51
52  # call the write_csv() method to convert response to CSV and store it in out
53  response['question_results'].write_csv(out, response['question_results'])
54
55  print ""
56  print "CSV Results of response: "
57  print out.getvalue()
```

Output from Python Code

```
1   Handler for Session to 172.16.31.128:444, Authenticated: True, Version: 6.2.314.3258
2   2014-12-07 01:06:54,330 INFO      question_progress: Results 0% (Get Operating System contains "Windo
3   2014-12-07 01:06:59,349 INFO      question_progress: Results 100% (Get Operating System contains "Win
4
5   Type of response:  <type 'dict'>
6
7   Pretty print of response:
8   {'question_object': <taniumpy.object_types.question.Question object at 0x102334a50>,
9    'question_results': <taniumpy.object_types.result_set.ResultSet object at 0x102057c90>}
10
11  Equivalent Question if it were to be asked in the Tanium Console:
12  Get Operating System contains "Windows" from all machines
13
14  CSV Results of response:
15  Operating System
16  [no results]
17  Windows Server 2008 R2 Standard
```

Ask manual human question sensor with parameters and filter and options

Ask a manual question using human strings by referencing the name of a single sensor that takes parameters, but supplying only two of the four parameters that are used by the sensor.

Also supply a sensor filter that limits the column data that is shown to values that match the regex '.*Shared.*', and a sensor filter option that re-fetches any cached data that is older than 3600 seconds.

No question filters or question options supplied.

Example Python Code

```
1   # Path to lib directory which contains pytan package
2   PYTAN_LIB_PATH = '../lib'
3
4   # connection info for Tanium Server
5   USERNAME = "Tanium User"
6   PASSWORD = "T@n!um"
7   HOST = "172.16.31.128"
8   PORT = "444"
```

```python
9
10   # Logging conrols
11   LOGLEVEL = 2
12   DEBUGFORMAT = False
13
14   import sys, tempfile
15   sys.path.append(PYTAN_LIB_PATH)
16
17   import pytan
18   handler = pytan.Handler(
19       username=USERNAME,
20       password=PASSWORD,
21       host=HOST,
22       port=PORT,
23       loglevel=LOGLEVEL,
24       debugformat=DEBUGFORMAT,
25   )
26
27   print handler
28
29   # setup the arguments for the handler method
30   kwargs = {}
31   kwargs["sensors"] = u'Folder Name Search with RegEx Match{dirname=Program Files,regex=Microsoft.*},
32   kwargs["qtype"] = u'manual_human'
33
34   # call the handler with the ask method, passing in kwargs for arguments
35   response = handler.ask(**kwargs)
36   import pprint, io
37
38   print ""
39   print "Type of response: ", type(response)
40
41   print ""
42   print "Pretty print of response:"
43   print pprint.pformat(response)
44
45   print ""
46   print "Equivalent Question if it were to be asked in the Tanium Console: "
47   print response['question_object'].query_text
48
49   # create an IO stream to store CSV results to
50   out = io.BytesIO()
51
52   # call the write_csv() method to convert response to CSV and store it in out
53   response['question_results'].write_csv(out, response['question_results'])
54
55   print ""
56   print "CSV Results of response: "
57   print out.getvalue()
```

Output from Python Code

```
1   Handler for Session to 172.16.31.128:444, Authenticated: True, Version: 6.2.314.3258
2   2014-12-07 01:06:59,449 INFO     question_progress: Results 0% (Get Folder Name Search with RegEx Ma
3   2014-12-07 01:07:04,465 INFO     question_progress: Results 0% (Get Folder Name Search with RegEx Ma
4   2014-12-07 01:07:09,482 INFO     question_progress: Results 0% (Get Folder Name Search with RegEx Ma
5   2014-12-07 01:07:14,498 INFO     question_progress: Results 0% (Get Folder Name Search with RegEx Ma
```

```
6   2014-12-07 01:07:19,516 INFO       question_progress: Results 0% (Get Folder Name Search with RegEx Ma
7   2014-12-07 01:07:24,534 INFO       question_progress: Results 0% (Get Folder Name Search with RegEx Ma
8   2014-12-07 01:07:29,549 INFO       question_progress: Results 100% (Get Folder Name Search with RegEx
9
10  Type of response:  <type 'dict'>
11
12  Pretty print of response:
13  {'question_object': <taniumpy.object_types.question.Question object at 0x102339490>,
14   'question_results': <taniumpy.object_types.result_set.ResultSet object at 0x102053290>}
15
16  Equivalent Question if it were to be asked in the Tanium Console:
17  Get Folder Name Search with RegEx Match[No, Program Files, No, ] matches "match .*Shared.*" from all
18
19  CSV Results of response:
20  Count,"Folder Name Search with RegEx Match[No, Program Files, No, ]"
21  2,[no results]
```

Ask manual human question sensor with filter and 2 options

Ask a manual question using human strings by referencing the name of a single sensor.

Also supply a sensor filter that limits the column data that is shown to values that contain Windows (which is short hand for regex match against .*Windows.*).

Also supply filter options that re-fetches any cached data that is older than 3600 seconds and treats the values as type string.

No question filters or question options supplied.

Example Python Code

```python
1   # Path to lib directory which contains pytan package
2   PYTAN_LIB_PATH = '../lib'
3
4   # connection info for Tanium Server
5   USERNAME = "Tanium User"
6   PASSWORD = "T@n!um"
7   HOST = "172.16.31.128"
8   PORT = "444"
9
10  # Logging conrols
11  LOGLEVEL = 2
12  DEBUGFORMAT = False
13
14  import sys, tempfile
15  sys.path.append(PYTAN_LIB_PATH)
16
17  import pytan
18  handler = pytan.Handler(
19      username=USERNAME,
20      password=PASSWORD,
21      host=HOST,
22      port=PORT,
23      loglevel=LOGLEVEL,
24      debugformat=DEBUGFORMAT,
25  )
```

```
26
27   print handler
28
29   # setup the arguments for the handler method
30   kwargs = {}
31   kwargs["sensors"] = u'Operating System, that contains Windows, opt:max_data_age:3600, opt:value_type
32   kwargs["qtype"] = u'manual_human'
33
34   # call the handler with the ask method, passing in kwargs for arguments
35   response = handler.ask(**kwargs)
36   import pprint, io
37
38   print ""
39   print "Type of response: ", type(response)
40
41   print ""
42   print "Pretty print of response:"
43   print pprint.pformat(response)
44
45   print ""
46   print "Equivalent Question if it were to be asked in the Tanium Console: "
47   print response['question_object'].query_text
48
49   # create an IO stream to store CSV results to
50   out = io.BytesIO()
51
52   # call the write_csv() method to convert response to CSV and store it in out
53   response['question_results'].write_csv(out, response['question_results'])
54
55   print ""
56   print "CSV Results of response: "
57   print out.getvalue()
```

Output from Python Code

```
1    Handler for Session to 172.16.31.128:444, Authenticated: True, Version: 6.2.314.3258
2    2014-12-07 01:07:29,645 INFO     question_progress: Results 0% (Get Operating System contains "Windo
3    2014-12-07 01:07:34,662 INFO     question_progress: Results 100% (Get Operating System contains "Win
4
5    Type of response:  <type 'dict'>
6
7    Pretty print of response:
8    {'question_object': <taniumpy.object_types.question.Question object at 0x1023344d0>,
9     'question_results': <taniumpy.object_types.result_set.ResultSet object at 0x10205a450>}
10
11   Equivalent Question if it were to be asked in the Tanium Console:
12   Get Operating System contains "Windows" from all machines
13
14   CSV Results of response:
15   Operating System
16   [no results]
17   Windows Server 2008 R2 Standard
```

Ask manual human question sensor with filter

Ask a manual question using human strings by referencing the name of a single sensor.

Also supply a sensor filter that limits the column data that is shown to values that contain Windows (which is short hand for regex match against .*Windows.*).

No sensor parameters, sensor filter options, question filters or question options supplied.

Example Python Code

```python
# Path to lib directory which contains pytan package
PYTAN_LIB_PATH = '../lib'

# connection info for Tanium Server
USERNAME = "Tanium User"
PASSWORD = "T@n!um"
HOST = "172.16.31.128"
PORT = "444"

# Logging conrols
LOGLEVEL = 2
DEBUGFORMAT = False

import sys, tempfile
sys.path.append(PYTAN_LIB_PATH)

import pytan
handler = pytan.Handler(
    username=USERNAME,
    password=PASSWORD,
    host=HOST,
    port=PORT,
    loglevel=LOGLEVEL,
    debugformat=DEBUGFORMAT,
)

print handler

# setup the arguments for the handler method
kwargs = {}
kwargs["sensors"] = u'Operating System, that contains Windows'
kwargs["qtype"] = u'manual_human'

# call the handler with the ask method, passing in kwargs for arguments
response = handler.ask(**kwargs)
import pprint, io

print ""
print "Type of response: ", type(response)

print ""
print "Pretty print of response:"
print pprint.pformat(response)

print ""
print "Equivalent Question if it were to be asked in the Tanium Console: "
print response['question_object'].query_text
```

```
48
49   # create an IO stream to store CSV results to
50   out = io.BytesIO()
51
52   # call the write_csv() method to convert response to CSV and store it in out
53   response['question_results'].write_csv(out, response['question_results'])
54
55   print ""
56   print "CSV Results of response: "
57   print out.getvalue()
```

Output from Python Code

```
1    Handler for Session to 172.16.31.128:444, Authenticated: True, Version: 6.2.314.3258
2    2014-12-07 01:07:34,744 INFO     question_progress: Results 0% (Get Operating System contains "Windo
3    2014-12-07 01:07:39,757 INFO     question_progress: Results 0% (Get Operating System contains "Windo
4    2014-12-07 01:07:44,770 INFO     question_progress: Results 0% (Get Operating System contains "Windo
5    2014-12-07 01:07:49,787 INFO     question_progress: Results 100% (Get Operating System contains "Win
6
7    Type of response:  <type 'dict'>
8
9    Pretty print of response:
10   {'question_object': <taniumpy.object_types.question.Question object at 0x10213c210>,
11    'question_results': <taniumpy.object_types.result_set.ResultSet object at 0x102035810>}
12
13   Equivalent Question if it were to be asked in the Tanium Console:
14   Get Operating System contains "Windows" from all machines
15
16   CSV Results of response:
17   Operating System
18   [no results]
19   Windows Server 2008 R2 Standard
```

Ask manual human question complex query1

Ask a manual question using human strings by referencing the name of a two sensors sensor.

Supply 3 parameters for the second sensor, one of which is not a valid parameter (and will be ignored).

Supply one option to the second sensor.

Supply two question filters that limit the rows returned in the result to computers that match the sensor Operating System that contains Windows and does not contain Windows.

Supply two question options that 'or' the two question filters and ignore the case of any values while matching the question filters.

Example Python Code

```
1    # Path to lib directory which contains pytan package
2    PYTAN_LIB_PATH = '../lib'
3
4    # connection info for Tanium Server
5    USERNAME = "Tanium User"
6    PASSWORD = "T@n!um"
```

```
7    HOST = "172.16.31.128"
8    PORT = "444"
9
10   # Logging conrols
11   LOGLEVEL = 2
12   DEBUGFORMAT = False
13
14   import sys, tempfile
15   sys.path.append(PYTAN_LIB_PATH)
16
17   import pytan
18   handler = pytan.Handler(
19       username=USERNAME,
20       password=PASSWORD,
21       host=HOST,
22       port=PORT,
23       loglevel=LOGLEVEL,
24       debugformat=DEBUGFORMAT,
25   )
26
27   print handler
28
29   # setup the arguments for the handler method
30   kwargs = {}
31   kwargs["question_filters"] = [u'Operating System, that contains Windows',
32    u'Operating System, that does not contain Windows']
33   kwargs["sensors"] = [u'Computer Name',
34    u'Folder Name Search with RegEx Match{dirname=Program Files,regex=Microsoft.*, invalidparam=test},
35   kwargs["question_options"] = [u'ignore_case', u'or']
36   kwargs["qtype"] = u'manual_human'
37
38   # call the handler with the ask method, passing in kwargs for arguments
39   response = handler.ask(**kwargs)
40   import pprint, io
41
42   print ""
43   print "Type of response: ", type(response)
44
45   print ""
46   print "Pretty print of response:"
47   print pprint.pformat(response)
48
49   print ""
50   print "Equivalent Question if it were to be asked in the Tanium Console: "
51   print response['question_object'].query_text
52
53   # create an IO stream to store CSV results to
54   out = io.BytesIO()
55
56   # call the write_csv() method to convert response to CSV and store it in out
57   response['question_results'].write_csv(out, response['question_results'])
58
59   print ""
60   print "CSV Results of response: "
61   print out.getvalue()
```

Output from Python Code

```
1   Handler for Session to 172.16.31.128:444, Authenticated: True, Version: 6.2.314.3258
2   2014-12-07 01:07:49,920 INFO      question_progress: Results 0% (Get Computer Name and Folder Name Se
3   2014-12-07 01:07:54,941 INFO      question_progress: Results 0% (Get Computer Name and Folder Name Se
4   2014-12-07 01:07:59,961 INFO      question_progress: Results 0% (Get Computer Name and Folder Name Se
5   2014-12-07 01:08:04,980 INFO      question_progress: Results 50% (Get Computer Name and Folder Name S
6   2014-12-07 01:08:10,005 INFO      question_progress: Results 50% (Get Computer Name and Folder Name S
7   2014-12-07 01:08:15,026 INFO      question_progress: Results 100% (Get Computer Name and Folder Name
8
9   Type of response:  <type 'dict'>
10
11  Pretty print of response:
12  {'question_object': <taniumpy.object_types.question.Question object at 0x1020241d0>,
13   'question_results': <taniumpy.object_types.result_set.ResultSet object at 0x102024390>}
14
15  Equivalent Question if it were to be asked in the Tanium Console:
16  Get Computer Name and Folder Name Search with RegEx Match[No, Program Files, No, ] matches "match .*
17
18  CSV Results of response:
19  Computer Name,"Folder Name Search with RegEx Match[No, Program Files, No, ]"
20  Casus-Belli.local,[no results]
21  jtanium1.localdomain,[no results]
```

Ask manual human question complex query2

This is another complex query that gets the Computer Name and Last Logged in User and Installed Applications
that contains Google Search or Google Chrome and limits the rows that are displayed to computers that contain the
Installed Applications of Google Search AND Google Chrome

Example Python Code

```python
1   # Path to lib directory which contains pytan package
2   PYTAN_LIB_PATH = '../lib'
3
4   # connection info for Tanium Server
5   USERNAME = "Tanium User"
6   PASSWORD = "T@n!um"
7   HOST = "172.16.31.128"
8   PORT = "444"
9
10  # Logging conrols
11  LOGLEVEL = 2
12  DEBUGFORMAT = False
13
14  import sys, tempfile
15  sys.path.append(PYTAN_LIB_PATH)
16
17  import pytan
18  handler = pytan.Handler(
19      username=USERNAME,
20      password=PASSWORD,
21      host=HOST,
22      port=PORT,
23      loglevel=LOGLEVEL,
24      debugformat=DEBUGFORMAT,
25  )
```

```
26
27   print handler
28
29   # setup the arguments for the handler method
30   kwargs = {}
31   kwargs["question_filters"] = [u'Installed Applications, that contains Google Search',
32    u'Installed Applications, that contains Google Chrome']
33   kwargs["sensors"] = [u'Computer Name',
34    u'Last Logged In User',
35    u'Installed Applications, that contains Google Search',
36    u'Installed Applications, that contains Google Chrome']
37   kwargs["question_options"] = [u'ignore_case', u'and']
38   kwargs["qtype"] = u'manual_human'
39
40   # call the handler with the ask method, passing in kwargs for arguments
41   response = handler.ask(**kwargs)
42   import pprint, io
43
44   print ""
45   print "Type of response: ", type(response)
46
47   print ""
48   print "Pretty print of response:"
49   print pprint.pformat(response)
50
51   print ""
52   print "Equivalent Question if it were to be asked in the Tanium Console: "
53   print response['question_object'].query_text
54
55   # create an IO stream to store CSV results to
56   out = io.BytesIO()
57
58   # call the write_csv() method to convert response to CSV and store it in out
59   response['question_results'].write_csv(out, response['question_results'])
60
61   print ""
62   print "CSV Results of response: "
63   print out.getvalue()
```

Output from Python Code

```
1    Handler for Session to 172.16.31.128:444, Authenticated: True, Version: 6.2.314.3258
2    2014-12-07 01:08:15,186 INFO     question_progress: Results 0% (Get Computer Name and Last Logged In
3    2014-12-07 01:08:20,216 INFO     question_progress: Results 100% (Get Computer Name and Last Logged
4
5    Type of response:  <type 'dict'>
6
7    Pretty print of response:
8    {'question_object': <taniumpy.object_types.question.Question object at 0x102303890>,
9     'question_results': <taniumpy.object_types.result_set.ResultSet object at 0x1022e4750>}
10
11   Equivalent Question if it were to be asked in the Tanium Console:
12   Get Computer Name and Last Logged In User and Installed Applications contains "Google Search" and In
13
14   CSV Results of response:
15   Computer Name,Last Logged In User,Name,Name,Silent Uninstall String,Silent Uninstall String,Uninstal
```

```
16  Casus-Belli.local,[no results],Google Search,Google Search,nothing,nothing,Not Uninstallable,Not Uni
```

Ask manual question sensor complex

This provides an example for asking a manual question without using sensors without using human strings.

It uses the Computer Name and Folder Name Search with RegEx Match sensors.

The second sensor has a single parameter, dirname, with a value of 'Program Files'.

The second sensor also has 3 sensor filter options that set the max data age to 3600 seconds, does NOT ignore case, and treats all values as string.

There is also a question filter supplied that limits the rows that are displayed to computers that match an Operating System that contains Windows, and has 3 question filter options supplied that set the max data age to 3600 seconds, does NOT ignore case, and uses 'and' to join all question filters.

Example Python Code

```python
1   # Path to lib directory which contains pytan package
2   PYTAN_LIB_PATH = '../lib'
3
4   # connection info for Tanium Server
5   USERNAME = "Tanium User"
6   PASSWORD = "T@n!um"
7   HOST = "172.16.31.128"
8   PORT = "444"
9
10  # Logging conrols
11  LOGLEVEL = 2
12  DEBUGFORMAT = False
13
14  import sys, tempfile
15  sys.path.append(PYTAN_LIB_PATH)
16
17  import pytan
18  handler = pytan.Handler(
19      username=USERNAME,
20      password=PASSWORD,
21      host=HOST,
22      port=PORT,
23      loglevel=LOGLEVEL,
24      debugformat=DEBUGFORMAT,
25  )
26
27  print handler
28
29  # setup the arguments for the handler method
30  kwargs = {}
31  kwargs["question_filter_defs"] = [{u'filter': {u'not_flag': 0,
32              u'operator': u'RegexMatch',
33              u'value': u'.*Windows.*'},
34    u'name': u'Operating System'}]
35  kwargs["sensor_defs"] = [u'Computer Name',
36    {u'filter': {u'not_flag': 0,
37              u'operator': u'RegexMatch',
```

```
38                 u'value': u'.*Shared.*'},
39       u'name': u'Folder Name Search with RegEx Match',
40       u'options': {u'ignore_case_flag': 0,
41                    u'max_age_seconds': 3600,
42                    u'value_type': u'string'},
43       u'params': {u'dirname': u'Program Files'}}]
44   kwargs["question_option_defs"] = {u'and_flag': 0, u'ignore_case_flag': 0, u'max_age_seconds': 3600}
45   kwargs["qtype"] = u'manual'
46
47   # call the handler with the ask method, passing in kwargs for arguments
48   response = handler.ask(**kwargs)
49   import pprint, io
50
51   print ""
52   print "Type of response: ", type(response)
53
54   print ""
55   print "Pretty print of response:"
56   print pprint.pformat(response)
57
58   print ""
59   print "Equivalent Question if it were to be asked in the Tanium Console: "
60   print response['question_object'].query_text
61
62   # create an IO stream to store CSV results to
63   out = io.BytesIO()
64
65   # call the write_csv() method to convert response to CSV and store it in out
66   response['question_results'].write_csv(out, response['question_results'])
67
68   print ""
69   print "CSV Results of response: "
70   print out.getvalue()
```

Output from Python Code

```
1    Handler for Session to 172.16.31.128:444, Authenticated: True, Version: 6.2.314.3258
2    2014-12-07 01:08:20,351 INFO     question_progress: Results 0% (Get Computer Name and Folder Name Se
3    2014-12-07 01:08:25,370 INFO     question_progress: Results 0% (Get Computer Name and Folder Name Se
4    2014-12-07 01:08:30,394 INFO     question_progress: Results 0% (Get Computer Name and Folder Name Se
5    2014-12-07 01:08:35,414 INFO     question_progress: Results 0% (Get Computer Name and Folder Name Se
6    2014-12-07 01:08:40,432 INFO     question_progress: Results 0% (Get Computer Name and Folder Name Se
7    2014-12-07 01:08:45,454 INFO     question_progress: Results 50% (Get Computer Name and Folder Name S
8    2014-12-07 01:08:50,477 INFO     question_progress: Results 100% (Get Computer Name and Folder Name
9
10   Type of response:  <type 'dict'>
11
12   Pretty print of response:
13   {'question_object': <taniumpy.object_types.question.Question object at 0x102322410>,
14    'question_results': <taniumpy.object_types.result_set.ResultSet object at 0x102259cd0>}
15
16   Equivalent Question if it were to be asked in the Tanium Console:
17   Get Computer Name and Folder Name Search with RegEx Match[No, Program Files, No, ] contains "Shared"
18
19   CSV Results of response:
20   Computer Name,"Folder Name Search with RegEx Match[No, Program Files, No, ]"
21   jtanium1.localdomain,"C:\Program Files\Common Files\Microsoft Shared\VS7Debug
```

```
22  C:\Program Files\Common Files\Microsoft Shared\ink\ar-SA
23  C:\Program Files\Common Files\Microsoft Shared\ink\ru-RU
24  C:\Program Files\Common Files\Microsoft Shared\ink\fsdefinitions\keypad
25  C:\Program Files\Common Files\Microsoft Shared\ink
26  C:\Program Files\Common Files\Microsoft Shared\ink\sv-SE
27  C:\Program Files\Common Files\Microsoft Shared\ink\uk-UA
28  C:\Program Files\Common Files\Microsoft Shared\ink\sl-SI
29  C:\Program Files\Common Files\Microsoft Shared\ink\hu-HU
30  C:\Program Files\Common Files\Microsoft Shared\ink\zh-TW
31  C:\Program Files\Common Files\Microsoft Shared\ink\zh-CN
32  C:\Program Files\Common Files\Microsoft Shared\ink\fi-FI
33  C:\Program Files\Common Files\Microsoft Shared
34  C:\Program Files\Common Files\Microsoft Shared\ink\da-DK
35  C:\Program Files\Common Files\Microsoft Shared\ink\fsdefinitions\oskmenu
36  C:\Program Files\Common Files\Microsoft Shared\ink\ko-KR
37  C:\Program Files\Common Files\Microsoft Shared\ink\it-IT
38  C:\Program Files\Common Files\Microsoft Shared\Triedit
39  C:\Program Files\Microsoft SQL Server\110\Shared
40  C:\Program Files\Common Files\Microsoft Shared\ink\he-IL
41  C:\Program Files\Common Files\Microsoft Shared\ink\ro-RO
42  C:\Program Files\Common Files\Microsoft Shared\ink\fsdefinitions\oskpred
43  C:\Program Files\Common Files\Microsoft Shared\ink\fsdefinitions\numbers
44  C:\Program Files\Common Files\Microsoft Shared\ink\nb-NO
45  C:\Program Files\Common Files\Microsoft Shared\ink\lv-LV
46  C:\Program Files\Common Files\Microsoft Shared\ink\fsdefinitions\auxpad
47  C:\Program Files\Common Files\Microsoft Shared\TextConv
48  C:\Program Files\Common Files\Microsoft Shared\MSInfo\en-US
49  C:\Program Files\Common Files\Microsoft Shared\ink\nl-NL
50  C:\Program Files\Microsoft SQL Server\90\Shared\Resources\1033
51  C:\Program Files\Common Files\Microsoft Shared\ink\fr-FR
52  C:\Program Files\Common Files\Microsoft Shared\ink\tr-TR
53  C:\Program Files\Common Files\Microsoft Shared\VC
54  C:\Program Files\Common Files\Microsoft Shared\WF
55  C:\Program Files\Microsoft SQL Server\110\Shared\en
56  C:\Program Files\Common Files\Microsoft Shared\ink\fsdefinitions\symbols
57  C:\Program Files\Common Files\Microsoft Shared\ink\lt-LT
58  C:\Program Files\Common Files\Microsoft Shared\ink\et-EE
59  C:\Program Files\Common Files\Microsoft Shared\ink\cs-CZ
60  C:\Program Files\Microsoft SQL Server\110\Shared\VS2008
61  C:\Program Files\Common Files\Microsoft Shared\ink\en-US
62  C:\Program Files\Common Files\Microsoft Shared\ink\bg-BG
63  C:\Program Files\Microsoft SQL Server\100\Shared
64  C:\Program Files\Common Files\Microsoft Shared\ink\es-ES
65  C:\Program Files\Common Files\Microsoft Shared\MSInfo
66  C:\Program Files\Microsoft SQL Server\110\Shared\RsFxInstall
67  C:\Program Files\Common Files\Microsoft Shared\WF\amd64
68  C:\Program Files\Common Files\Microsoft Shared\ink\de-DE
69  C:\Program Files\Common Files\Microsoft Shared\ink\fsdefinitions\main
70  C:\Program Files\Microsoft SQL Server\90\Shared\Resources
71  C:\Program Files\Common Files\Microsoft Shared\ink\sr-Latn-CS
72  C:\Program Files\Common Files\Microsoft Shared\ink\fsdefinitions\osknumpad
73  C:\Program Files\Microsoft SQL Server\110\Shared\Resources\1033
74  C:\Program Files\Common Files\Microsoft Shared\MSEnv
75  C:\Program Files\Microsoft SQL Server\110\Shared\VS2008\1033
76  C:\Program Files\Common Files\Microsoft Shared\ink\pt-BR
77  C:\Program Files\Common Files\Microsoft Shared\ink\pt-PT
78  C:\Program Files\Common Files\Microsoft Shared\ink\el-GR
79  C:\Program Files\Microsoft SQL Server\110\Shared\Resources
```

```
80  C:\Program Files\Common Files\Microsoft Shared\ink\fsdefinitions\web
81  C:\Program Files\Common Files\Microsoft Shared\ink\ja-JP
82  C:\Program Files\Common Files\Microsoft Shared\ink\sk-SK
83  C:\Program Files\Common Files\Microsoft Shared\ink\hr-HR
84  C:\Program Files\Common Files\Microsoft Shared\VGX
85  C:\Program Files\Common Files\Microsoft Shared\Triedit\en-US
86  C:\Program Files\Common Files\Microsoft Shared\TextConv\en-US
87  C:\Program Files\Common Files\Microsoft Shared\ink\fsdefinitions
88  C:\Program Files\Common Files\Microsoft Shared\ink\th-TH
89  C:\Program Files\Common Files\Microsoft Shared\SQL Debugging
90  C:\Program Files\Microsoft SQL Server\90\Shared
91  C:\Program Files\Common Files\Microsoft Shared\ink\pl-PL
92  C:\Program Files\Common Files\Microsoft Shared\Stationery
93  C:\Program Files\Common Files\Microsoft Shared\VS7Debug\1033
94  C:\Program Files\Microsoft SQL Server\110\Shared\ErrorDumps"
```

pytan API Invalid Question Examples

Invalid ask manual human question sensor

Ask a question using a sensor that does not exist

Example Python Code

```python
1   # Path to lib directory which contains pytan package
2   PYTAN_LIB_PATH = '../lib'
3
4   # connection info for Tanium Server
5   USERNAME = "Tanium User"
6   PASSWORD = "T@n!um"
7   HOST = "172.16.31.128"
8   PORT = "444"
9
10  # Logging conrols
11  LOGLEVEL = 2
12  DEBUGFORMAT = False
13
14  import sys, tempfile
15  sys.path.append(PYTAN_LIB_PATH)
16
17  import pytan
18  handler = pytan.Handler(
19      username=USERNAME,
20      password=PASSWORD,
21      host=HOST,
22      port=PORT,
23      loglevel=LOGLEVEL,
24      debugformat=DEBUGFORMAT,
25  )
26
27  print handler
28
29  # setup the arguments for the handler method
30  kwargs = {}
31  kwargs["sensor_defs"] = u'Dweedle Dee and Dum'
```

```
32   kwargs["qtype"] = u'manual'
33
34
35   # call the handler with the ask method, passing in kwargs for arguments
36   # this should throw an exception: pytan.utils.HandlerError
37   import traceback
38   try:
39       handler.ask(**kwargs)
40   except Exception as e:
41       traceback.print_exc(file=sys.stdout)
```

Output from Python Code

```
1    Handler for Session to 172.16.31.128:444, Authenticated: True, Version: 6.2.314.3258
2    Traceback (most recent call last):
3      File "<string>", line 39, in <module>
4      File "/Users/jolsen/gh/pytan/lib/pytan/handler.py", line 127, in ask
5        result = getattr(self, q_obj_map['handler'])(**kwargs)
6      File "/Users/jolsen/gh/pytan/lib/pytan/handler.py", line 270, in ask_manual
7        sensor_defs = self._get_sensor_defs(sensor_defs)
8      File "/Users/jolsen/gh/pytan/lib/pytan/handler.py", line 1721, in _get_sensor_defs
9        d['sensor_obj'] = self.get('sensor', **def_search)[0]
10     File "/Users/jolsen/gh/pytan/lib/pytan/handler.py", line 1504, in get
11       return self._get_multi(obj_map, **kwargs)
12     File "/Users/jolsen/gh/pytan/lib/pytan/handler.py", line 1666, in _get_multi
13       found = self._find(api_obj_multi, **kwargs)
14     File "/Users/jolsen/gh/pytan/lib/pytan/handler.py", line 1631, in _find
15       raise HandlerError(err(search_str))
16   HandlerError: No results found searching for Sensor, name: u'Dweedle Dee and Dum'!!
```

Invalid ask manual human question filter

Ask a question using an invalid filter.

Example Python Code

```
1    # Path to lib directory which contains pytan package
2    PYTAN_LIB_PATH = '../lib'
3
4    # connection info for Tanium Server
5    USERNAME = "Tanium User"
6    PASSWORD = "T@n!um"
7    HOST = "172.16.31.128"
8    PORT = "444"
9
10   # Logging conrols
11   LOGLEVEL = 2
12   DEBUGFORMAT = False
13
14   import sys, tempfile
15   sys.path.append(PYTAN_LIB_PATH)
16
17   import pytan
18   handler = pytan.Handler(
```

```
19       username=USERNAME,
20       password=PASSWORD,
21       host=HOST,
22       port=PORT,
23       loglevel=LOGLEVEL,
24       debugformat=DEBUGFORMAT,
25   )
26
27   print handler
28
29   # setup the arguments for the handler method
30   kwargs = {}
31   kwargs["sensors"] = u'Computer name, that does not meet little'
32   kwargs["qtype"] = u'manual_human'
33
34
35   # call the handler with the ask method, passing in kwargs for arguments
36   # this should throw an exception: pytan.utils.HumanParserError
37   import traceback
38   try:
39       handler.ask(**kwargs)
40   except Exception as e:
41       traceback.print_exc(file=sys.stdout)
```

Output from Python Code

```
1    Handler for Session to 172.16.31.128:444, Authenticated: True, Version: 6.2.314.3258
2    Traceback (most recent call last):
3      File "<string>", line 39, in <module>
4      File "/Users/jolsen/gh/pytan/lib/pytan/handler.py", line 127, in ask
5        result = getattr(self, q_obj_map['handler'])(**kwargs)
6      File "/Users/jolsen/gh/pytan/lib/pytan/handler.py", line 380, in ask_manual_human
7        sensor_defs = utils.dehumanize_sensors(sensors)
8      File "/Users/jolsen/gh/pytan/lib/pytan/utils.py", line 1235, in dehumanize_sensors
9        s, parsed_filter = extract_filter(s)
10     File "/Users/jolsen/gh/pytan/lib/pytan/utils.py", line 1597, in extract_filter
11       raise HumanParserError(err(split_filter[1]))
12   HumanParserError: Filter u' does not meet little' is not a valid filter!
```

Invalid ask manual human question paramater too many

Ask a question that supplies too many parameter blocks ({}).

Example Python Code

```
1    # Path to lib directory which contains pytan package
2    PYTAN_LIB_PATH = '../lib'
3
4    # connection info for Tanium Server
5    USERNAME = "Tanium User"
6    PASSWORD = "T@n!um"
7    HOST = "172.16.31.128"
8    PORT = "444"
9
```

```
10   # Logging conrols
11   LOGLEVEL = 2
12   DEBUGFORMAT = False
13
14   import sys, tempfile
15   sys.path.append(PYTAN_LIB_PATH)
16
17   import pytan
18   handler = pytan.Handler(
19       username=USERNAME,
20       password=PASSWORD,
21       host=HOST,
22       port=PORT,
23       loglevel=LOGLEVEL,
24       debugformat=DEBUGFORMAT,
25   )
26
27   print handler
28
29   # setup the arguments for the handler method
30   kwargs = {}
31   kwargs["sensors"] = u'Folder Name Search with RegEx Match{dirname=Program Files,regex=.*}{}'
32   kwargs["qtype"] = u'manual_human'
33
34
35   # call the handler with the ask method, passing in kwargs for arguments
36   # this should throw an exception: pytan.utils.HumanParserError
37   import traceback
38   try:
39       handler.ask(**kwargs)
40   except Exception as e:
41       traceback.print_exc(file=sys.stdout)
```

Output from Python Code

```
1    Handler for Session to 172.16.31.128:444, Authenticated: True, Version: 6.2.314.3258
2    Traceback (most recent call last):
3      File "<string>", line 39, in <module>
4      File "/Users/jolsen/gh/pytan/lib/pytan/handler.py", line 127, in ask
5        result = getattr(self, q_obj_map['handler'])(**kwargs)
6      File "/Users/jolsen/gh/pytan/lib/pytan/handler.py", line 380, in ask_manual_human
7        sensor_defs = utils.dehumanize_sensors(sensors)
8      File "/Users/jolsen/gh/pytan/lib/pytan/utils.py", line 1233, in dehumanize_sensors
9        s, parsed_params = extract_params(s)
10     File "/Users/jolsen/gh/pytan/lib/pytan/utils.py", line 1403, in extract_params
11       raise HumanParserError(err(s))
12   HumanParserError: More than one parameter ({}) passed in u'Folder Name Search with RegEx Match{dirna
```

Invalid ask manual human question option

Ask a question using an invalid option.

Example Python Code

```
1   # Path to lib directory which contains pytan package
2   PYTAN_LIB_PATH = '../lib'
3
4   # connection info for Tanium Server
5   USERNAME = "Tanium User"
6   PASSWORD = "T@n!um"
7   HOST = "172.16.31.128"
8   PORT = "444"
9
10  # Logging conrols
11  LOGLEVEL = 2
12  DEBUGFORMAT = False
13
14  import sys, tempfile
15  sys.path.append(PYTAN_LIB_PATH)
16
17  import pytan
18  handler = pytan.Handler(
19      username=USERNAME,
20      password=PASSWORD,
21      host=HOST,
22      port=PORT,
23      loglevel=LOGLEVEL,
24      debugformat=DEBUGFORMAT,
25  )
26
27  print handler
28
29  # setup the arguments for the handler method
30  kwargs = {}
31  kwargs["sensors"] = u'Operating system, opt:bad'
32  kwargs["qtype"] = u'manual_human'
33
34
35  # call the handler with the ask method, passing in kwargs for arguments
36  # this should throw an exception: pytan.utils.HumanParserError
37  import traceback
38  try:
39      handler.ask(**kwargs)
40  except Exception as e:
41      traceback.print_exc(file=sys.stdout)
```

Output from Python Code

```
1   Handler for Session to 172.16.31.128:444, Authenticated: True, Version: 6.2.314.3258
2   Traceback (most recent call last):
3     File "<string>", line 39, in <module>
4     File "/Users/jolsen/gh/pytan/lib/pytan/handler.py", line 127, in ask
5       result = getattr(self, q_obj_map['handler'])(**kwargs)
6     File "/Users/jolsen/gh/pytan/lib/pytan/handler.py", line 380, in ask_manual_human
7       sensor_defs = utils.dehumanize_sensors(sensors)
8     File "/Users/jolsen/gh/pytan/lib/pytan/utils.py", line 1234, in dehumanize_sensors
9       s, parsed_options = extract_options(s)
10    File "/Users/jolsen/gh/pytan/lib/pytan/utils.py", line 1472, in extract_options
11      parsed_options = map_options(parsed_options, ['filter'])
12    File "/Users/jolsen/gh/pytan/lib/pytan/utils.py", line 1502, in map_options
```

```
13        raise HumanParserError(err(option))
14   HumanParserError: Option u'bad' is not a valid option!
```

Invalid ask manual human question parameter split

Ask a question with parameters that are missing a splitter (=) to designate the key from value.

Example Python Code

```
1    # Path to lib directory which contains pytan package
2    PYTAN_LIB_PATH = '../lib'
3
4    # connection info for Tanium Server
5    USERNAME = "Tanium User"
6    PASSWORD = "T@n!um"
7    HOST = "172.16.31.128"
8    PORT = "444"
9
10   # Logging conrols
11   LOGLEVEL = 2
12   DEBUGFORMAT = False
13
14   import sys, tempfile
15   sys.path.append(PYTAN_LIB_PATH)
16
17   import pytan
18   handler = pytan.Handler(
19       username=USERNAME,
20       password=PASSWORD,
21       host=HOST,
22       port=PORT,
23       loglevel=LOGLEVEL,
24       debugformat=DEBUGFORMAT,
25   )
26
27   print handler
28
29   # setup the arguments for the handler method
30   kwargs = {}
31   kwargs["sensors"] = u'Computer Name{Dweedle}'
32   kwargs["qtype"] = u'manual_human'
33
34
35   # call the handler with the ask method, passing in kwargs for arguments
36   # this should throw an exception: pytan.utils.HumanParserError
37   import traceback
38   try:
39       handler.ask(**kwargs)
40   except Exception as e:
41       traceback.print_exc(file=sys.stdout)
```

Output from Python Code

```
1   Handler for Session to 172.16.31.128:444, Authenticated: True, Version: 6.2.314.3258
2   Traceback (most recent call last):
3     File "<string>", line 39, in <module>
4     File "/Users/jolsen/gh/pytan/lib/pytan/handler.py", line 127, in ask
5       result = getattr(self, q_obj_map['handler'])(**kwargs)
6     File "/Users/jolsen/gh/pytan/lib/pytan/handler.py", line 380, in ask_manual_human
7       sensor_defs = utils.dehumanize_sensors(sensors)
8     File "/Users/jolsen/gh/pytan/lib/pytan/utils.py", line 1233, in dehumanize_sensors
9       s, parsed_params = extract_params(s)
10    File "/Users/jolsen/gh/pytan/lib/pytan/utils.py", line 1421, in extract_params
11      raise HumanParserError(err(sp, constants.PARAM_KEY_SPLIT))
12  HumanParserError: Parameter Dweedle missing key/value seperator (=)
```

pytan API Valid Get Object Examples

Get action by id

Get an action by id

Example Python Code

```python
1   # Path to lib directory which contains pytan package
2   PYTAN_LIB_PATH = '../lib'
3
4   # connection info for Tanium Server
5   USERNAME = "Tanium User"
6   PASSWORD = "T@n!um"
7   HOST = "172.16.31.128"
8   PORT = "444"
9
10  # Logging conrols
11  LOGLEVEL = 2
12  DEBUGFORMAT = False
13
14  import sys, tempfile
15  sys.path.append(PYTAN_LIB_PATH)
16
17  import pytan
18  handler = pytan.Handler(
19      username=USERNAME,
20      password=PASSWORD,
21      host=HOST,
22      port=PORT,
23      loglevel=LOGLEVEL,
24      debugformat=DEBUGFORMAT,
25  )
26
27  print handler
28
29  # setup the arguments for the handler method
30  kwargs = {}
31  kwargs["objtype"] = u'action'
32  kwargs["id"] = 1
33
34  # call the handler with the get method, passing in kwargs for arguments
```

```
35  response = handler.get(**kwargs)
36
37  print ""
38  print "Type of response: ", type(response)
39
40  print ""
41  print "print of response:"
42  print response
43
44  print ""
45  print "length of response (number of objects returned): "
46  print len(response)
47
48  print ""
49  print "print the first object returned in JSON format:"
50  print response.to_json(response[0])
```

Output from Python Code

```
1   Handler for Session to 172.16.31.128:444, Authenticated: True, Version: 6.2.314.3258
2
3   Type of response:  <class 'taniumpy.object_types.action_list.ActionList'>
4
5   print of response:
6   ActionList, len: 1
7
8   length of response (number of objects returned):
9   1
10
11  print the first object returned in JSON format:
12  {
13    "_type": "action",
14    "action_group": {
15      "_type": "group",
16      "id": 0,
17      "name": "Default"
18    },
19    "comment": "Scans for unmanaged assets on the network.",
20    "creation_time": "2014-12-06T18:02:01",
21    "distribute_seconds": 600,
22    "expire_seconds": 1800,
23    "history_saved_question": {
24      "_type": "saved_question",
25      "id": 173
26    },
27    "id": 1,
28    "name": "Unmanaged Asset Tracking - Run Scan",
29    "package_spec": {
30      "_type": "package_spec",
31      "command": "cmd /c start /B cscript //T:3600 ..\\..\\Tools\\run-ua-scan.vbs /RANDOM_WAIT_TIME_IN
32      "id": 6,
33      "name": "Run Unmanaged Asset Scanner"
34    },
35    "saved_action": {
36      "_type": "saved_action",
37      "id": 1
38    },
```

```
39    "skip_lock_flag": 0,
40    "status": "Pending",
41    "stopped_flag": 0,
42    "target_group": {
43      "_type": "group",
44      "id": 65,
45      "name": "Default"
46    },
47    "user": {
48      "_type": "user",
49      "group_id": 0,
50      "id": 1,
51      "last_login": "2014-12-06T18:02:13",
52      "name": "Jim Olsen"
53    }
54  }
```

Get question by id

Get a question by id

Example Python Code

```python
1   # Path to lib directory which contains pytan package
2   PYTAN_LIB_PATH = '../lib'
3
4   # connection info for Tanium Server
5   USERNAME = "Tanium User"
6   PASSWORD = "T@n!um"
7   HOST = "172.16.31.128"
8   PORT = "444"
9
10  # Logging conrols
11  LOGLEVEL = 2
12  DEBUGFORMAT = False
13
14  import sys, tempfile
15  sys.path.append(PYTAN_LIB_PATH)
16
17  import pytan
18  handler = pytan.Handler(
19      username=USERNAME,
20      password=PASSWORD,
21      host=HOST,
22      port=PORT,
23      loglevel=LOGLEVEL,
24      debugformat=DEBUGFORMAT,
25  )
26
27  print handler
28
29  # setup the arguments for the handler method
30  kwargs = {}
31  kwargs["objtype"] = u'question'
32  kwargs["id"] = 1
```

```
33
34   # call the handler with the get method, passing in kwargs for arguments
35   response = handler.get(**kwargs)
36
37   print ""
38   print "Type of response: ", type(response)
39
40   print ""
41   print "print of response:"
42   print response
43
44   print ""
45   print "length of response (number of objects returned): "
46   print len(response)
47
48   print ""
49   print "print the first object returned in JSON format:"
50   print response.to_json(response[0])
```

Output from Python Code

```
1    Handler for Session to 172.16.31.128:444, Authenticated: True, Version: 6.2.314.3258
2
3    Type of response:  <class 'taniumpy.object_types.question_list.QuestionList'>
4
5    print of response:
6    QuestionList, len: 1
7
8    length of response (number of objects returned):
9    1
10
11   print the first object returned in JSON format:
12   {
13     "_type": "question",
14     "action_tracking_flag": 0,
15     "context_group": {
16       "_type": "group",
17       "id": 0
18     },
19     "expiration": "2014-12-06T18:08:58",
20     "expire_seconds": 0,
21     "force_computer_id_flag": 1,
22     "hidden_flag": 0,
23     "id": 1,
24     "management_rights_group": {
25       "_type": "group",
26       "id": 0
27     },
28     "query_text": "Get Action Statuses matches \"Nil\" from all machines",
29     "saved_question": {
30       "_type": "saved_question",
31       "id": 0
32     },
33     "selects": {
34       "_type": "selects",
35       "select": [
36         {
```

```
37          "_type": "select",
38          "filter": {
39            "_type": "filter",
40            "all_times_flag": 0,
41            "all_values_flag": 1,
42            "delimiter_index": 0,
43            "end_time": "2001-01-01T00:00:00",
44            "ignore_case_flag": 1,
45            "max_age_seconds": 0,
46            "not_flag": 0,
47            "operator": "RegexMatch",
48            "start_time": "2001-01-01T00:00:00",
49            "substring_flag": 0,
50            "substring_length": 0,
51            "substring_start": 0,
52            "utf8_flag": 0,
53            "value": "Nil",
54            "value_type": "String"
55          },
56          "sensor": {
57            "_type": "sensor",
58            "category": "Reserved",
59            "description": "The recorded state of each action a client has taken recently in the form
60            "exclude_from_parse_flag": 1,
61            "hash": 1792443391,
62            "hidden_flag": 0,
63            "id": 1,
64            "ignore_case_flag": 1,
65            "max_age_seconds": 3600,
66            "name": "Action Statuses",
67            "queries": {
68              "_type": "queries",
69              "query": [
70                {
71                  "_type": "query",
72                  "platform": "Windows",
73                  "script": "Reserved",
74                  "script_type": "WMIQuery"
75                }
76              ]
77            },
78            "source_id": 0,
79            "string_count": 3354,
80            "value_type": "String"
81          }
82        }
83      ]
84    },
85    "skip_lock_flag": 0,
86    "user": {
87      "_type": "user",
88      "id": 1,
89      "name": "Jim Olsen"
90    }
91  }
```

Get saved question by names

Get two saved questions by name

Example Python Code

```python
# Path to lib directory which contains pytan package
PYTAN_LIB_PATH = '../lib'

# connection info for Tanium Server
USERNAME = "Tanium User"
PASSWORD = "T@n!um"
HOST = "172.16.31.128"
PORT = "444"

# Logging conrols
LOGLEVEL = 2
DEBUGFORMAT = False

import sys, tempfile
sys.path.append(PYTAN_LIB_PATH)

import pytan
handler = pytan.Handler(
    username=USERNAME,
    password=PASSWORD,
    host=HOST,
    port=PORT,
    loglevel=LOGLEVEL,
    debugformat=DEBUGFORMAT,
)

print handler

# setup the arguments for the handler method
kwargs = {}
kwargs["objtype"] = u'saved_question'
kwargs["name"] = [u'Installed Applications', u'Computer Name']

# call the handler with the get method, passing in kwargs for arguments
response = handler.get(**kwargs)

print ""
print "Type of response: ", type(response)

print ""
print "print of response:"
print response

print ""
print "length of response (number of objects returned): "
print len(response)

print ""
print "print the first object returned in JSON format:"
print response.to_json(response[0])
```

Output from Python Code

```
Handler for Session to 172.16.31.128:444, Authenticated: True, Version: 6.2.314.3258

Type of response:  <class 'taniumpy.object_types.saved_question_list.SavedQuestionList'>

print of response:
SavedQuestionList, len: 2

length of response (number of objects returned):
2

print the first object returned in JSON format:
{
  "_type": "saved_question",
  "action_tracking_flag": 0,
  "archive_enabled_flag": 0,
  "archive_owner": {
    "_type": "user",
    "id": 1,
    "name": "Jim Olsen"
  },
  "expire_seconds": 600,
  "hidden_flag": 0,
  "id": 92,
  "issue_seconds": 120,
  "issue_seconds_never_flag": 0,
  "keep_seconds": 3600,
  "metadata": {
    "_type": "metadata",
    "item": [
        {
          "_type": "item",
          "admin_flag": 0,
          "name": "defined",
          "value": "Tanium"
        },
        {
          "_type": "item",
          "admin_flag": 0,
          "name": "category",
          "value": "Tanium"
        }
    ]
  },
  "mod_time": "2014-12-06T18:01:38",
  "mod_user": {
    "_type": "user",
    "name": "Jim Olsen"
  },
  "most_recent_question_id": 989,
  "name": "Installed Applications",
  "packages": {
    "_type": "package_specs",
    "package_spec": []
  },
  "public_flag": 1,
  "query_text": "Get Installed Applications from all machines",
  "question": {
```

```
58        "_type": "question",
59        "action_tracking_flag": 0,
60        "expiration": "2014-12-07T06:12:22",
61        "expire_seconds": 0,
62        "force_computer_id_flag": 0,
63        "hidden_flag": 0,
64        "id": 989,
65        "management_rights_group": {
66          "_type": "group",
67          "id": 0
68        },
69        "query_text": "Get Installed Applications from all machines",
70        "saved_question": {
71          "_type": "saved_question",
72          "id": 92
73        },
74        "selects": {
75          "_type": "selects",
76          "select": [
77            {
78              "_type": "select",
79              "filter": {
80                "_type": "filter",
81                "all_times_flag": 0,
82                "all_values_flag": 0,
83                "delimiter_index": 0,
84                "end_time": "2001-01-01T00:00:00",
85                "ignore_case_flag": 1,
86                "max_age_seconds": 0,
87                "not_flag": 0,
88                "operator": "Less",
89                "start_time": "2001-01-01T00:00:00",
90                "substring_flag": 0,
91                "substring_length": 0,
92                "substring_start": 0,
93                "utf8_flag": 0,
94                "value_type": "String"
95              },
96              "sensor": {
97                "_type": "sensor",
98                "category": "Applications",
99                "creation_time": "2014-12-06T18:00:21",
100               "delimiter": "|",
101               "description": "List of the applications and versions of those applications installed on
102               "exclude_from_parse_flag": 1,
103               "hash": 1511329504,
104               "hidden_flag": 0,
105               "id": 41,
106               "ignore_case_flag": 1,
107               "last_modified_by": "Jim Olsen",
108               "max_age_seconds": 600,
109               "metadata": {
110                 "_type": "metadata",
111                 "item": [
112                   {
113                     "_type": "item",
114                     "admin_flag": 0,
115                     "name": "defined",
```

```
116                        "value": "Tanium"
117                    }
118                ]
119            },
120            "modification_time": "2014-12-06T18:00:21",
121            "name": "Installed Applications",
122            "queries": {
123              "_type": "queries",
124              "query": [
125                {
126                  "_type": "query",
127                  "platform": "Windows",
128                  "script": ...,
129                  "script_type": "VBScript"
130                },
131                {
132                  "_type": "query",
133                  "platform": "Linux",
134                  "script": "#!/bin/sh\n# Detects which OS and if it is Linux then it will detect wh
135                  "script_type": "UnixShell"
136                },
137                {
138                  "_type": "query",
139                  "platform": "Mac",
140                  "script": "#!/bin/bash\n\nnotcontains() {\n    string=&quot;$1&quot;\n    substrin
141                  "script_type": "UnixShell"
142                }
143              ]
144            },
145            "source_id": 0,
146            "string_count": 3215,
147            "subcolumns": {
148              "_type": "subcolumns",
149              "subcolumn": [
150                {
151                  "_type": "subcolumn",
152                  "hidden_flag": 0,
153                  "ignore_case_flag": 1,
154                  "index": 0,
155                  "name": "Name",
156                  "value_type": "String"
157                },
158                {
159                  "_type": "subcolumn",
160                  "hidden_flag": 0,
161                  "ignore_case_flag": 1,
162                  "index": 1,
163                  "name": "Version",
164                  "value_type": "Version"
165                },
166                {
167                  "_type": "subcolumn",
168                  "hidden_flag": 1,
169                  "ignore_case_flag": 1,
170                  "index": 2,
171                  "name": "Silent Uninstall String",
172                  "value_type": "String"
173                },
```

```
174                    {
175                        "_type": "subcolumn",
176                        "hidden_flag": 1,
177                        "ignore_case_flag": 1,
178                        "index": 3,
179                        "name": "Uninstallable",
180                        "value_type": "String"
181                    }
182                 ]
183              },
184              "value_type": "String"
185          }
186        }
187      ]
188    },
189    "skip_lock_flag": 0,
190    "user": {
191      "_type": "user",
192      "id": 2,
193      "name": "Tanium User"
194    }
195  },
196  "row_count_flag": 0,
197  "sort_column": 0,
198  "user": {
199    "_type": "user",
200    "id": 1,
201    "name": "Jim Olsen"
202  }
203 }
```

Get userrole by id

Get a user role by id.

Example Python Code

```python
1   # Path to lib directory which contains pytan package
2   PYTAN_LIB_PATH = '../lib'
3
4   # connection info for Tanium Server
5   USERNAME = "Tanium User"
6   PASSWORD = "T@n!um"
7   HOST = "172.16.31.128"
8   PORT = "444"
9
10  # Logging conrols
11  LOGLEVEL = 2
12  DEBUGFORMAT = False
13
14  import sys, tempfile
15  sys.path.append(PYTAN_LIB_PATH)
16
17  import pytan
18  handler = pytan.Handler(
```

```
19        username=USERNAME,
20        password=PASSWORD,
21        host=HOST,
22        port=PORT,
23        loglevel=LOGLEVEL,
24        debugformat=DEBUGFORMAT,
25    )
26
27    print handler
28
29    # setup the arguments for the handler method
30    kwargs = {}
31    kwargs["objtype"] = u'userrole'
32    kwargs["id"] = 1
33
34    # call the handler with the get method, passing in kwargs for arguments
35    response = handler.get(**kwargs)
36
37    print ""
38    print "Type of response: ", type(response)
39
40    print ""
41    print "print of response:"
42    print response
43
44    print ""
45    print "length of response (number of objects returned): "
46    print len(response)
47
48    print ""
49    print "print the first object returned in JSON format:"
50    print response.to_json(response[0])
```

Output from Python Code

```
1    Handler for Session to 172.16.31.128:444, Authenticated: True, Version: 6.2.314.3258
2
3    Type of response:  <class 'taniumpy.object_types.user_role_list.UserRoleList'>
4
5    print of response:
6    UserRoleList, len: 1
7
8    length of response (number of objects returned):
9    1
10
11   print the first object returned in JSON format:
12   {
13     "_type": "role",
14     "description": "Administrators can perform all functions in the system, including creating other u
15     "id": 1,
16     "name": "Administrator",
17     "permissions": {
18       "_type": "permissions",
19       "permission": "admin"
20     }
21   }
```

Get leader clients

Get all clients that are Leader status

Example Python Code

```python
# Path to lib directory which contains pytan package
PYTAN_LIB_PATH = '../lib'

# connection info for Tanium Server
USERNAME = "Tanium User"
PASSWORD = "T@n!um"
HOST = "172.16.31.128"
PORT = "444"

# Logging conrols
LOGLEVEL = 2
DEBUGFORMAT = False

import sys, tempfile
sys.path.append(PYTAN_LIB_PATH)

import pytan
handler = pytan.Handler(
    username=USERNAME,
    password=PASSWORD,
    host=HOST,
    port=PORT,
    loglevel=LOGLEVEL,
    debugformat=DEBUGFORMAT,
)

print handler

# setup the arguments for the handler method
kwargs = {}
kwargs["objtype"] = u'client'
kwargs["status"] = u'Leader'

# call the handler with the get method, passing in kwargs for arguments
response = handler.get(**kwargs)

print ""
print "Type of response: ", type(response)

print ""
print "print of response:"
print response

print ""
print "length of response (number of objects returned): "
print len(response)

print ""
print "print the first object returned in JSON format:"
print response.to_json(response[0])
```

Output from Python Code

```
Handler for Session to 172.16.31.128:444, Authenticated: True, Version: 6.2.314.3258

Type of response:  <class 'taniumpy.object_types.system_status_list.SystemStatusList'>

print of response:
SystemStatusList, len: 1

length of response (number of objects returned):
1

print the first object returned in JSON format:
{
  "_type": "client_status",
  "cache_row_id": 1,
  "computer_id": "255106209",
  "full_version": "6.0.314.1190",
  "host_name": "jtanium1.localdomain",
  "ipaddress_client": "172.16.31.128",
  "ipaddress_server": "172.16.31.128",
  "last_registration": "2014-12-07T06:08:41",
  "port_number": 17473,
  "protocol_version": 314,
  "receive_state": "Previous Only",
  "send_state": "Backward Only",
  "status": "Leader"
}
```

Get setting by name

Get a system setting by name

Example Python Code

```python
# Path to lib directory which contains pytan package
PYTAN_LIB_PATH = '../lib'

# connection info for Tanium Server
USERNAME = "Tanium User"
PASSWORD = "T@n!um"
HOST = "172.16.31.128"
PORT = "444"

# Logging conrols
LOGLEVEL = 2
DEBUGFORMAT = False

import sys, tempfile
sys.path.append(PYTAN_LIB_PATH)

import pytan
handler = pytan.Handler(
    username=USERNAME,
    password=PASSWORD,
    host=HOST,
```

```
22       port=PORT,
23       loglevel=LOGLEVEL,
24       debugformat=DEBUGFORMAT,
25   )
26
27   print handler
28
29   # setup the arguments for the handler method
30   kwargs = {}
31   kwargs["objtype"] = u'setting'
32   kwargs["name"] = u'control_address'
33
34   # call the handler with the get method, passing in kwargs for arguments
35   response = handler.get(**kwargs)
36
37   print ""
38   print "Type of response: ", type(response)
39
40   print ""
41   print "print of response:"
42   print response
43
44   print ""
45   print "length of response (number of objects returned): "
46   print len(response)
47
48   print ""
49   print "print the first object returned in JSON format:"
50   print response.to_json(response[0])
```

Output from Python Code

```
1    Handler for Session to 172.16.31.128:444, Authenticated: True, Version: 6.2.314.3258
2
3    Type of response:  <class 'taniumpy.object_types.system_settings_list.SystemSettingsList'>
4
5    print of response:
6    SystemSettingsList, len: 1
7
8    length of response (number of objects returned):
9    1
10
11   print the first object returned in JSON format:
12   {
13     "_type": "system_setting",
14     "default_value": "512:17473:127.0.0.1",
15     "hidden_flag": 0,
16     "id": 57,
17     "name": "control_address",
18     "read_only_flag": 0,
19     "setting_type": "Server",
20     "value": "512:17473:127.0.0.1",
21     "value_type": "Text"
22   }
```

Get user by name

Get a user by name

Example Python Code

```python
# Path to lib directory which contains pytan package
PYTAN_LIB_PATH = '../lib'

# connection info for Tanium Server
USERNAME = "Tanium User"
PASSWORD = "T@n!um"
HOST = "172.16.31.128"
PORT = "444"

# Logging conrols
LOGLEVEL = 2
DEBUGFORMAT = False

import sys, tempfile
sys.path.append(PYTAN_LIB_PATH)

import pytan
handler = pytan.Handler(
    username=USERNAME,
    password=PASSWORD,
    host=HOST,
    port=PORT,
    loglevel=LOGLEVEL,
    debugformat=DEBUGFORMAT,
)

print handler

# setup the arguments for the handler method
kwargs = {}
kwargs["objtype"] = u'user'
kwargs["name"] = u'Tanium User'

# call the handler with the get method, passing in kwargs for arguments
response = handler.get(**kwargs)

print ""
print "Type of response: ", type(response)

print ""
print "print of response:"
print response

print ""
print "length of response (number of objects returned): "
print len(response)

print ""
print "print the first object returned in JSON format:"
print response.to_json(response[0])
```

Output from Python Code

```
1  Handler for Session to 172.16.31.128:444, Authenticated: True, Version: 6.2.314.3258
2
3  Type of response:  <class 'taniumpy.object_types.user_list.UserList'>
4
5  print of response:
6  UserList, len: 1
7
8  length of response (number of objects returned):
9  1
10
11 print the first object returned in JSON format:
12 {
13   "_type": "user",
14   "deleted_flag": 0,
15   "group_id": 0,
16   "id": 2,
17   "last_login": "2014-12-07T06:08:50",
18   "name": "Tanium User",
19   "permissions": {
20     "_type": "permissions",
21     "permission": "admin"
22   },
23   "roles": {
24     "_type": "roles",
25     "role": [
26       {
27         "_type": "role",
28         "description": "Administrators can perform all functions in the system, including creating c
29         "id": 1,
30         "name": "Administrator",
31         "permissions": {
32           "_type": "permissions",
33           "permission": "admin"
34         }
35       }
36     ]
37   }
38 }
```

Get sensor by id

Get a sensor by id

Example Python Code

```
1  # Path to lib directory which contains pytan package
2  PYTAN_LIB_PATH = '../lib'
3
4  # connection info for Tanium Server
5  USERNAME = "Tanium User"
6  PASSWORD = "T@n!um"
7  HOST = "172.16.31.128"
8  PORT = "444"
9
```

```python
10   # Logging conrols
11   LOGLEVEL = 2
12   DEBUGFORMAT = False
13
14   import sys, tempfile
15   sys.path.append(PYTAN_LIB_PATH)
16
17   import pytan
18   handler = pytan.Handler(
19       username=USERNAME,
20       password=PASSWORD,
21       host=HOST,
22       port=PORT,
23       loglevel=LOGLEVEL,
24       debugformat=DEBUGFORMAT,
25   )
26
27   print handler
28
29   # setup the arguments for the handler method
30   kwargs = {}
31   kwargs["objtype"] = u'sensor'
32   kwargs["id"] = 1
33
34   # call the handler with the get method, passing in kwargs for arguments
35   response = handler.get(**kwargs)
36
37   print ""
38   print "Type of response: ", type(response)
39
40   print ""
41   print "print of response:"
42   print response
43
44   print ""
45   print "length of response (number of objects returned): "
46   print len(response)
47
48   print ""
49   print "print the first object returned in JSON format:"
50   print response.to_json(response[0])
```

Output from Python Code

```
1    Handler for Session to 172.16.31.128:444, Authenticated: True, Version: 6.2.314.3258
2
3    Type of response:  <class 'taniumpy.object_types.sensor_list.SensorList'>
4
5    print of response:
6    SensorList, len: 1
7
8    length of response (number of objects returned):
9    1
10
11   print the first object returned in JSON format:
12   {
13     "_type": "sensor",
```

```
14      "category": "Reserved",
15      "description": "The recorded state of each action a client has taken recently in the form of id:st
16      "exclude_from_parse_flag": 1,
17      "hash": 1792443391,
18      "hidden_flag": 0,
19      "id": 1,
20      "ignore_case_flag": 1,
21      "max_age_seconds": 3600,
22      "name": "Action Statuses",
23      "queries": {
24        "_type": "queries",
25        "query": [
26          {
27            "_type": "query",
28            "platform": "Windows",
29            "script": "Reserved",
30            "script_type": "WMIQuery"
31          }
32        ]
33      },
34      "source_id": 0,
35      "string_count": 3354,
36      "value_type": "String"
37    }
```

Get sensor by mixed

Get multiple sensors by id, name, and hash

Example Python Code

```python
1   # Path to lib directory which contains pytan package
2   PYTAN_LIB_PATH = '../lib'
3
4   # connection info for Tanium Server
5   USERNAME = "Tanium User"
6   PASSWORD = "T@n!um"
7   HOST = "172.16.31.128"
8   PORT = "444"
9
10  # Logging conrols
11  LOGLEVEL = 2
12  DEBUGFORMAT = False
13
14  import sys, tempfile
15  sys.path.append(PYTAN_LIB_PATH)
16
17  import pytan
18  handler = pytan.Handler(
19      username=USERNAME,
20      password=PASSWORD,
21      host=HOST,
22      port=PORT,
23      loglevel=LOGLEVEL,
24      debugformat=DEBUGFORMAT,
```

```
25  )
26
27  print handler
28
29  # setup the arguments for the handler method
30  kwargs = {}
31  kwargs["objtype"] = u'sensor'
32  kwargs["hash"] = [u'322086833']
33  kwargs["name"] = [u'Computer Name']
34  kwargs["id"] = [1, 2]
35
36  # call the handler with the get method, passing in kwargs for arguments
37  response = handler.get(**kwargs)
38
39  print ""
40  print "Type of response: ", type(response)
41
42  print ""
43  print "print of response:"
44  print response
45
46  print ""
47  print "length of response (number of objects returned): "
48  print len(response)
49
50  print ""
51  print "print the first object returned in JSON format:"
52  print response.to_json(response[0])
```

Output from Python Code

```
1   Handler for Session to 172.16.31.128:444, Authenticated: True, Version: 6.2.314.3258
2
3   Type of response:  <class 'taniumpy.object_types.sensor_list.SensorList'>
4
5   print of response:
6   SensorList, len: 4
7
8   length of response (number of objects returned):
9   4
10
11  print the first object returned in JSON format:
12  {
13    "_type": "sensor",
14    "category": "Reserved",
15    "description": "The recorded state of each download a client has made recently in the form of hash
16    "exclude_from_parse_flag": 0,
17    "hash": 322086833,
18    "hidden_flag": 0,
19    "id": 4,
20    "ignore_case_flag": 1,
21    "max_age_seconds": 900,
22    "name": "Download Statuses",
23    "queries": {
24      "_type": "queries",
25      "query": [
26        {
```

```
27          "_type": "query",
28          "platform": "Windows",
29          "script": "Reserved",
30          "script_type": "WMIQuery"
31        }
32      ]
33    },
34    "source_id": 0,
35    "string_count": 301,
36    "value_type": "String"
37  }
```

Get whitelisted url by id

Get a whitelisted url by id

Example Python Code

```python
1   # Path to lib directory which contains pytan package
2   PYTAN_LIB_PATH = '../lib'
3
4   # connection info for Tanium Server
5   USERNAME = "Tanium User"
6   PASSWORD = "T@n!um"
7   HOST = "172.16.31.128"
8   PORT = "444"
9
10  # Logging conrols
11  LOGLEVEL = 2
12  DEBUGFORMAT = False
13
14  import sys, tempfile
15  sys.path.append(PYTAN_LIB_PATH)
16
17  import pytan
18  handler = pytan.Handler(
19      username=USERNAME,
20      password=PASSWORD,
21      host=HOST,
22      port=PORT,
23      loglevel=LOGLEVEL,
24      debugformat=DEBUGFORMAT,
25  )
26
27  print handler
28
29  # setup the arguments for the handler method
30  kwargs = {}
31  kwargs["objtype"] = u'whitelisted_url'
32  kwargs["id"] = 1
33
34  # call the handler with the get method, passing in kwargs for arguments
35  response = handler.get(**kwargs)
36
37  print ""
```

```
38   print "Type of response: ", type(response)
39
40   print ""
41   print "print of response:"
42   print response
43
44   print ""
45   print "length of response (number of objects returned): "
46   print len(response)
47
48   print ""
49   print "print the first object returned in JSON format:"
50   print response.to_json(response[0])
```

Output from Python Code

```
1    Handler for Session to 172.16.31.128:444, Authenticated: True, Version: 6.2.314.3258
2
3    Type of response:  <class 'taniumpy.object_types.white_listed_url_list.WhiteListedUrlList'>
4
5    print of response:
6    WhiteListedUrlList, len: 1
7
8    length of response (number of objects returned):
9    1
10
11   print the first object returned in JSON format:
12   {
13     "_type": "white_listed_url",
14     "download_seconds": 86400,
15     "id": 1,
16     "url_regex": "test1"
17   }
```

Get group by name

Get a group by name

Example Python Code

```
1    # Path to lib directory which contains pytan package
2    PYTAN_LIB_PATH = '../lib'
3
4    # connection info for Tanium Server
5    USERNAME = "Tanium User"
6    PASSWORD = "T@n!um"
7    HOST = "172.16.31.128"
8    PORT = "444"
9
10   # Logging conrols
11   LOGLEVEL = 2
12   DEBUGFORMAT = False
13
14   import sys, tempfile
```

```
15  sys.path.append(PYTAN_LIB_PATH)
16
17  import pytan
18  handler = pytan.Handler(
19      username=USERNAME,
20      password=PASSWORD,
21      host=HOST,
22      port=PORT,
23      loglevel=LOGLEVEL,
24      debugformat=DEBUGFORMAT,
25  )
26
27  print handler
28
29  # setup the arguments for the handler method
30  kwargs = {}
31  kwargs["objtype"] = u'group'
32  kwargs["name"] = u'All Computers'
33
34  # call the handler with the get method, passing in kwargs for arguments
35  response = handler.get(**kwargs)
36
37  print ""
38  print "Type of response: ", type(response)
39
40  print ""
41  print "print of response:"
42  print response
43
44  print ""
45  print "length of response (number of objects returned): "
46  print len(response)
47
48  print ""
49  print "print the first object returned in JSON format:"
50  print response.to_json(response[0])
```

Output from Python Code

```
1   Handler for Session to 172.16.31.128:444, Authenticated: True, Version: 6.2.314.3258
2
3   Type of response:  <class 'taniumpy.object_types.group_list.GroupList'>
4
5   print of response:
6   GroupList, len: 1
7
8   length of response (number of objects returned):
9   1
10
11  print the first object returned in JSON format:
12  {
13    "_type": "group",
14    "and_flag": 0,
15    "deleted_flag": 0,
16    "filters": {
17      "_type": "filters",
18      "filter": []
```

```
19        },
20        "id": 1,
21        "name": "All Computers",
22        "not_flag": 0,
23        "sub_groups": {
24          "_type": "groups",
25          "group": []
26        },
27        "type": 0
28      }
```

Get sensor by hash

Get a sensor by hash

Example Python Code

```
1    # Path to lib directory which contains pytan package
2    PYTAN_LIB_PATH = '../lib'
3
4    # connection info for Tanium Server
5    USERNAME = "Tanium User"
6    PASSWORD = "T@n!um"
7    HOST = "172.16.31.128"
8    PORT = "444"
9
10   # Logging conrols
11   LOGLEVEL = 2
12   DEBUGFORMAT = False
13
14   import sys, tempfile
15   sys.path.append(PYTAN_LIB_PATH)
16
17   import pytan
18   handler = pytan.Handler(
19       username=USERNAME,
20       password=PASSWORD,
21       host=HOST,
22       port=PORT,
23       loglevel=LOGLEVEL,
24       debugformat=DEBUGFORMAT,
25   )
26
27   print handler
28
29   # setup the arguments for the handler method
30   kwargs = {}
31   kwargs["objtype"] = u'sensor'
32   kwargs["hash"] = u'322086833'
33
34   # call the handler with the get method, passing in kwargs for arguments
35   response = handler.get(**kwargs)
36
37   print ""
38   print "Type of response: ", type(response)
```

```
39
40  print ""
41  print "print of response:"
42  print response
43
44  print ""
45  print "length of response (number of objects returned): "
46  print len(response)
47
48  print ""
49  print "print the first object returned in JSON format:"
50  print response.to_json(response[0])
```

Output from Python Code

```
1   Handler for Session to 172.16.31.128:444, Authenticated: True, Version: 6.2.314.3258
2
3   Type of response:  <class 'taniumpy.object_types.sensor_list.SensorList'>
4
5   print of response:
6   SensorList, len: 1
7
8   length of response (number of objects returned):
9   1
10
11  print the first object returned in JSON format:
12  {
13    "_type": "sensor",
14    "category": "Reserved",
15    "description": "The recorded state of each download a client has made recently in the form of hash
16    "exclude_from_parse_flag": 0,
17    "hash": 322086833,
18    "hidden_flag": 0,
19    "id": 4,
20    "ignore_case_flag": 1,
21    "max_age_seconds": 900,
22    "name": "Download Statuses",
23    "queries": {
24      "_type": "queries",
25      "query": [
26        {
27          "_type": "query",
28          "platform": "Windows",
29          "script": "Reserved",
30          "script_type": "WMIQuery"
31        }
32      ]
33    },
34    "source_id": 0,
35    "string_count": 301,
36    "value_type": "String"
37  }
```

Get package by name

Get a package by name

Example Python Code

```python
# Path to lib directory which contains pytan package
PYTAN_LIB_PATH = '../lib'

# connection info for Tanium Server
USERNAME = "Tanium User"
PASSWORD = "T@n!um"
HOST = "172.16.31.128"
PORT = "444"

# Logging conrols
LOGLEVEL = 2
DEBUGFORMAT = False

import sys, tempfile
sys.path.append(PYTAN_LIB_PATH)

import pytan
handler = pytan.Handler(
    username=USERNAME,
    password=PASSWORD,
    host=HOST,
    port=PORT,
    loglevel=LOGLEVEL,
    debugformat=DEBUGFORMAT,
)

print handler

# setup the arguments for the handler method
kwargs = {}
kwargs["objtype"] = u'package'
kwargs["name"] = u'Distribute Patch Tools'

# call the handler with the get method, passing in kwargs for arguments
response = handler.get(**kwargs)

print ""
print "Type of response: ", type(response)

print ""
print "print of response:"
print response

print ""
print "length of response (number of objects returned): "
print len(response)

print ""
print "print the first object returned in JSON format:"
print response.to_json(response[0])
```

Output from Python Code

```
1  Handler for Session to 172.16.31.128:444, Authenticated: True, Version: 6.2.314.3258
2
3  Type of response:  <class 'taniumpy.object_types.package_spec_list.PackageSpecList'>
4
5  print of response:
6  PackageSpecList, len: 1
7
8  length of response (number of objects returned):
9  1
10
11 print the first object returned in JSON format:
12 {
13   "_type": "package_spec",
14   "available_time": "2014-12-06T18:04:38",
15   "command": "cmd /c cscript //T:1800 copy-to-tanium-dir.vbs \"Tools\"",
16   "command_timeout": 1800,
17   "creation_time": "2014-12-06T18:00:48",
18   "deleted_flag": 0,
19   "display_name": "Distribute Patch Tools",
20   "expire_seconds": 2400,
21   "files": {
22     "_type": "package_files",
23     "file": [
24       {
25         "_type": "file",
26         "bytes_downloaded": 3041,
27         "bytes_total": 3041,
28         "cache_status": "CACHED",
29         "download_seconds": 0,
30         "download_start_time": "2014-12-06T18:02:29",
31         "hash": "9bcb986d4be0c4f42ab27df25f8604cac85b90e3a95bf016be519805aba79823",
32         "id": 45,
33         "last_download_progress_time": "2014-12-06T18:02:40",
34         "name": "copy-to-tanium-dir.vbs",
35         "size": 3041,
36         "source": "https://content.tanium.com/files/initialcontent/bundles/2014-11-05_12-56-07-8513/
37         "status": 200
38       },
39       {
40         "_type": "file",
41         "bytes_downloaded": 2224,
42         "bytes_total": 2224,
43         "cache_status": "CACHED",
44         "download_seconds": 0,
45         "download_start_time": "2014-12-06T18:02:29",
46         "hash": "2642ab14c1dc1b55df076a28a4eadaccb3e0cdb4b8810ca7eb6cd3a6d055b99f",
47         "id": 46,
48         "last_download_progress_time": "2014-12-06T18:02:40",
49         "name": "copy-patch-files.vbs",
50         "size": 2224,
51         "source": "https://content.tanium.com/files/initialcontent/bundles/2014-11-05_12-56-07-8513/
52         "status": 200
53       },
54       {
55         "_type": "file",
56         "bytes_downloaded": 2853,
57         "bytes_total": 2853,
```

```
58          "cache_status": "CACHED",
59          "download_seconds": 0,
60          "download_start_time": "2014-12-06T18:02:29",
61          "hash": "09cdcde9d227d991da568b27f90395980472c451aa8d2012a01f22dbade76957",
62          "id": 47,
63          "last_download_progress_time": "2014-12-06T18:02:40",
64          "name": "copy-patch-scanner-and-scan.vbs",
65          "size": 2853,
66          "source": "https://content.tanium.com/files/initialcontent/bundles/2014-11-05_12-56-07-8513/
67          "status": 200
68        },
69        {
70          "_type": "file",
71          "bytes_downloaded": 128080,
72          "bytes_total": 128080,
73          "cache_status": "CACHED",
74          "download_seconds": 0,
75          "download_start_time": "2014-12-06T18:02:29",
76          "hash": "71bb11a395d0f22c975095475567c36ace86973c8b22b69e8f2c615cbd3eb4f4",
77          "id": 48,
78          "last_download_progress_time": "2014-12-06T18:02:51",
79          "name": "install-patches.vbs",
80          "size": 128080,
81          "source": "https://content.tanium.com/files/initialcontent/bundles/2014-11-05_12-56-07-8513/
82          "status": 200
83        },
84        {
85          "_type": "file",
86          "bytes_downloaded": 130098,
87          "bytes_total": 130098,
88          "cache_status": "CACHED",
89          "download_seconds": 0,
90          "download_start_time": "2014-12-06T18:02:40",
91          "hash": "c66d83bcf491e3df2d7a427718b0ec5c4a471b058141a40473ef4df8e6e9ce08",
92          "id": 49,
93          "last_download_progress_time": "2014-12-06T18:03:01",
94          "name": "run-patch-scan.vbs",
95          "size": 130098,
96          "source": "https://content.tanium.com/files/initialcontent/bundles/2014-11-05_12-56-07-8513/
97          "status": 200
98        },
99        {
100         "_type": "file",
101         "bytes_downloaded": 43162,
102         "bytes_total": 43162,
103         "cache_status": "CACHED",
104         "download_seconds": 0,
105         "download_start_time": "2014-12-06T18:02:40",
106         "hash": "9cc2229dfe2da8a1c629d0232af02f18c9a942e880c0332e88ec4b59a4153bb2",
107         "id": 50,
108         "last_download_progress_time": "2014-12-06T18:03:01",
109         "name": "uninstall-patch.vbs",
110         "size": 43162,
111         "source": "https://content.tanium.com/files/initialcontent/bundles/2014-11-05_12-56-07-8513/
112         "status": 200
113       },
114       {
115         "_type": "file",
```

```
116          "bytes_downloaded": 2922,
117          "bytes_total": 2922,
118          "cache_status": "CACHED",
119          "download_seconds": 0,
120          "download_start_time": "2014-12-06T18:02:40",
121          "hash": "b72e877348660979b4886576ace522834ed0fa2b8a401b2c5c647b2c475ea67a",
122          "id": 51,
123          "last_download_progress_time": "2014-12-06T18:02:51",
124          "name": "add-patch-exclusion.vbs",
125          "size": 2922,
126          "source": "https://content.tanium.com/files/initialcontent/bundles/2014-11-05_12-56-07-8513/
127          "status": 200
128        },
129        {
130          "_type": "file",
131          "bytes_downloaded": 3205,
132          "bytes_total": 3205,
133          "cache_status": "CACHED",
134          "download_seconds": 0,
135          "download_start_time": "2014-12-06T18:02:40",
136          "hash": "6cbce3cc4d3ea581ca3836151612c8e6e0deecfd7d1af7485ce6995fa60827f8",
137          "id": 52,
138          "last_download_progress_time": "2014-12-06T18:02:51",
139          "name": "remove-patch-exclusion.vbs",
140          "size": 3205,
141          "source": "https://content.tanium.com/files/initialcontent/bundles/2014-11-05_12-56-07-8513/
142          "status": 200
143        },
144        {
145          "_type": "file",
146          "bytes_downloaded": 2888,
147          "bytes_total": 2888,
148          "cache_status": "CACHED",
149          "download_seconds": 0,
150          "download_start_time": "2014-12-06T18:02:51",
151          "hash": "c1ba18b6f5bf7754237a5e6b530cf650ad84ab936c1e49e736998e2ed6779d6c",
152          "id": 53,
153          "last_download_progress_time": "2014-12-06T18:03:01",
154          "name": "add-patch-whitelist-entry.vbs",
155          "size": 2888,
156          "source": "https://content.tanium.com/files/initialcontent/bundles/2014-11-05_12-56-07-8513/
157          "status": 200
158        },
159        {
160          "_type": "file",
161          "bytes_downloaded": 3171,
162          "bytes_total": 3171,
163          "cache_status": "CACHED",
164          "download_seconds": 0,
165          "download_start_time": "2014-12-06T18:02:51",
166          "hash": "3c86d99f232755ba4a1edcc4782cdd5ea9f637c2873b137931ced9b86c03f77a",
167          "id": 54,
168          "last_download_progress_time": "2014-12-06T18:03:01",
169          "name": "remove-patch-whitelist-entry.vbs",
170          "size": 3171,
171          "source": "https://content.tanium.com/files/initialcontent/bundles/2014-11-05_12-56-07-8513/
172          "status": 200
173        },
```

```
174            {
175              "_type": "file",
176              "bytes_downloaded": 2844,
177              "bytes_total": 2844,
178              "cache_status": "CACHED",
179              "download_seconds": 0,
180              "download_start_time": "2014-12-06T18:02:51",
181              "hash": "55ab7016031bb8a8c4a030e28b21d17fcfba1e05d9e522d473a452daea79a5d2",
182              "id": 55,
183              "last_download_progress_time": "2014-12-06T18:03:01",
184              "name": "delete-queued-patch.vbs",
185              "size": 2844,
186              "source": "https://content.tanium.com/files/initialcontent/bundles/2014-11-05_12-56-07-8513/
187              "status": 200
188            },
189            {
190              "_type": "file",
191              "bytes_downloaded": 104296332,
192              "bytes_total": 104296332,
193              "cache_status": "CACHED",
194              "download_seconds": 3600,
195              "download_start_time": "2014-12-07T06:04:13",
196              "hash": "7789bacbbd31f45349030e5cb23f46caeb03252d50cc5a30f43f13a54cf40887",
197              "id": 56,
198              "last_download_progress_time": "2014-12-07T06:04:23",
199              "name": "wsusscn2.cab",
200              "size": 104296332,
201              "source": "https://go.microsoft.com/fwlink/?LinkID=74689",
202              "status": 200
203            },
204            {
205              "_type": "file",
206              "bytes_downloaded": 305351,
207              "bytes_total": 305351,
208              "cache_status": "CACHED",
209              "download_seconds": 3600,
210              "download_start_time": "2014-12-07T06:04:23",
211              "hash": "203a3da688fed8992d3fbf872a7b02d4a0209f3e47ae3f5512b578820540dfb0",
212              "id": 57,
213              "last_download_progress_time": "2014-12-07T06:04:34",
214              "name": "cveData.html",
215              "size": 305351,
216              "source": "https://cve.mitre.org/data/refs/refmap/source-MS.html",
217              "status": 200
218            }
219          ]
220        },
221        "hidden_flag": 0,
222        "id": 22,
223        "last_modified_by": "Jim Olsen",
224        "last_update": "2014-12-06T18:00:48",
225        "metadata": {
226          "_type": "metadata",
227          "item": [
228            {
229              "_type": "item",
230              "admin_flag": 0,
231              "name": "defined",
```

```
232            "value": "Tanium"
233          },
234          {
235            "_type": "item",
236            "admin_flag": 0,
237            "name": "category",
238            "value": "Tanium"
239          }
240        ]
241      },
242      "modification_time": "2014-12-06T18:00:48",
243      "name": "Distribute Patch Tools",
244      "source_id": 0,
245      "verify_group_id": 0
246    }
```

Get sensor by names

Get multiple sensors by name

Example Python Code

```
1   # Path to lib directory which contains pytan package
2   PYTAN_LIB_PATH = '../lib'
3
4   # connection info for Tanium Server
5   USERNAME = "Tanium User"
6   PASSWORD = "T@n!um"
7   HOST = "172.16.31.128"
8   PORT = "444"
9
10  # Logging conrols
11  LOGLEVEL = 2
12  DEBUGFORMAT = False
13
14  import sys, tempfile
15  sys.path.append(PYTAN_LIB_PATH)
16
17  import pytan
18  handler = pytan.Handler(
19      username=USERNAME,
20      password=PASSWORD,
21      host=HOST,
22      port=PORT,
23      loglevel=LOGLEVEL,
24      debugformat=DEBUGFORMAT,
25  )
26
27  print handler
28
29  # setup the arguments for the handler method
30  kwargs = {}
31  kwargs["objtype"] = u'sensor'
32  kwargs["name"] = [u'Computer Name', u'Action Statuses']
33
```

```
34  # call the handler with the get method, passing in kwargs for arguments
35  response = handler.get(**kwargs)
36
37  print ""
38  print "Type of response: ", type(response)
39
40  print ""
41  print "print of response:"
42  print response
43
44  print ""
45  print "length of response (number of objects returned): "
46  print len(response)
47
48  print ""
49  print "print the first object returned in JSON format:"
50  print response.to_json(response[0])
```

Output from Python Code

```
1   Handler for Session to 172.16.31.128:444, Authenticated: True, Version: 6.2.314.3258
2
3   Type of response:  <class 'taniumpy.object_types.sensor_list.SensorList'>
4
5   print of response:
6   SensorList, len: 2
7
8   length of response (number of objects returned):
9   2
10
11  print the first object returned in JSON format:
12  {
13    "_type": "sensor",
14    "category": "Reserved",
15    "description": "The assigned name of the client machine.\nExample: workstation-1.company.com",
16    "exclude_from_parse_flag": 0,
17    "hash": 3409330187,
18    "hidden_flag": 0,
19    "id": 3,
20    "ignore_case_flag": 1,
21    "max_age_seconds": 86400,
22    "name": "Computer Name",
23    "queries": {
24      "_type": "queries",
25      "query": [
26        {
27          "_type": "query",
28          "platform": "Windows",
29          "script": "select CSName from win32_operatingsystem",
30          "script_type": "WMIQuery"
31        }
32      ]
33    },
34    "source_id": 0,
35    "string_count": 7,
36    "value_type": "String"
```

```
37   }
```

Get saved question by name

Get saved question by name

Example Python Code

```python
1   # Path to lib directory which contains pytan package
2   PYTAN_LIB_PATH = '../lib'
3
4   # connection info for Tanium Server
5   USERNAME = "Tanium User"
6   PASSWORD = "T@n!um"
7   HOST = "172.16.31.128"
8   PORT = "444"
9
10  # Logging conrols
11  LOGLEVEL = 2
12  DEBUGFORMAT = False
13
14  import sys, tempfile
15  sys.path.append(PYTAN_LIB_PATH)
16
17  import pytan
18  handler = pytan.Handler(
19      username=USERNAME,
20      password=PASSWORD,
21      host=HOST,
22      port=PORT,
23      loglevel=LOGLEVEL,
24      debugformat=DEBUGFORMAT,
25  )
26
27  print handler
28
29  # setup the arguments for the handler method
30  kwargs = {}
31  kwargs["objtype"] = u'saved_question'
32  kwargs["name"] = u'Installed Applications'
33
34  # call the handler with the get method, passing in kwargs for arguments
35  response = handler.get(**kwargs)
36
37  print ""
38  print "Type of response: ", type(response)
39
40  print ""
41  print "print of response:"
42  print response
43
44  print ""
45  print "length of response (number of objects returned): "
46  print len(response)
47
```

```
48  print ""
49  print "print the first object returned in JSON format:"
50  print response.to_json(response[0])
```

Output from Python Code

```
1   Handler for Session to 172.16.31.128:444, Authenticated: True, Version: 6.2.314.3258
2
3   Type of response:  <class 'taniumpy.object_types.saved_question_list.SavedQuestionList'>
4
5   print of response:
6   SavedQuestionList, len: 1
7
8   length of response (number of objects returned):
9   1
10
11  print the first object returned in JSON format:
12  {
13    "_type": "saved_question",
14    "action_tracking_flag": 0,
15    "archive_enabled_flag": 0,
16    "archive_owner": {
17      "_type": "user",
18      "id": 1,
19      "name": "Jim Olsen"
20    },
21    "expire_seconds": 600,
22    "hidden_flag": 0,
23    "id": 92,
24    "issue_seconds": 120,
25    "issue_seconds_never_flag": 0,
26    "keep_seconds": 3600,
27    "metadata": {
28      "_type": "metadata",
29      "item": [
30        {
31          "_type": "item",
32          "admin_flag": 0,
33          "name": "defined",
34          "value": "Tanium"
35        },
36        {
37          "_type": "item",
38          "admin_flag": 0,
39          "name": "category",
40          "value": "Tanium"
41        }
42      ]
43    },
44    "mod_time": "2014-12-06T18:01:38",
45    "mod_user": {
46      "_type": "user",
47      "name": "Jim Olsen"
48    },
49    "most_recent_question_id": 989,
50    "name": "Installed Applications",
51    "packages": {
```

```
52          "_type": "package_specs",
53          "package_spec": []
54        },
55        "public_flag": 1,
56        "query_text": "Get Installed Applications from all machines",
57        "question": {
58          "_type": "question",
59          "action_tracking_flag": 0,
60          "expiration": "2014-12-07T06:12:22",
61          "expire_seconds": 0,
62          "force_computer_id_flag": 0,
63          "hidden_flag": 0,
64          "id": 989,
65          "management_rights_group": {
66            "_type": "group",
67            "id": 0
68          },
69          "query_text": "Get Installed Applications from all machines",
70          "saved_question": {
71            "_type": "saved_question",
72            "id": 92
73          },
74          "selects": {
75            "_type": "selects",
76            "select": [
77              {
78                "_type": "select",
79                "filter": {
80                  "_type": "filter",
81                  "all_times_flag": 0,
82                  "all_values_flag": 0,
83                  "delimiter_index": 0,
84                  "end_time": "2001-01-01T00:00:00",
85                  "ignore_case_flag": 1,
86                  "max_age_seconds": 0,
87                  "not_flag": 0,
88                  "operator": "Less",
89                  "start_time": "2001-01-01T00:00:00",
90                  "substring_flag": 0,
91                  "substring_length": 0,
92                  "substring_start": 0,
93                  "utf8_flag": 0,
94                  "value_type": "String"
95                },
96                "sensor": {
97                  "_type": "sensor",
98                  "category": "Applications",
99                  "creation_time": "2014-12-06T18:00:21",
100                 "delimiter": "|",
101                 "description": "List of the applications and versions of those applications installed on
102                 "exclude_from_parse_flag": 1,
103                 "hash": 1511329504,
104                 "hidden_flag": 0,
105                 "id": 41,
106                 "ignore_case_flag": 1,
107                 "last_modified_by": "Jim Olsen",
108                 "max_age_seconds": 600,
109                 "metadata": {
```

```
110                        "_type": "metadata",
111                        "item": [
112                          {
113                            "_type": "item",
114                            "admin_flag": 0,
115                            "name": "defined",
116                            "value": "Tanium"
117                          }
118                        ]
119                      },
120                      "modification_time": "2014-12-06T18:00:21",
121                      "name": "Installed Applications",
122                      "queries": {
123                        "_type": "queries",
124                        "query": [
125                          {
126                            "_type": "query",
127                            "platform": "Windows",
```
mizeTaniumRandomSeed = SensorRandomGetTa%#00ComputerID =/=Timer\n\tEnd =If\nEnd =Function \n'GenInstRandomApplic
```
129                            "script_type": "VBScript"
130                          },
131                          {
132                            "_type": "query",
133                            "platform": "Linux",
134                            "script": "#!/bin/sh\n# Detects which OS and if it is Linux then it will detect wh
135                            "script_type": "UnixShell"
136                          },
137                          {
138                            "_type": "query",
139                            "platform": "Mac",
140                            "script": "#!/bin/bash\n\nnotcontains() {\n    string=&quot;$1&quot;\n    substrin
141                            "script_type": "UnixShell"
142                          }
143                        ]
144                      },
145                      "source_id": 0,
146                      "string_count": 3215,
147                      "subcolumns": {
148                        "_type": "subcolumns",
149                        "subcolumn": [
150                          {
151                            "_type": "subcolumn",
152                            "hidden_flag": 0,
153                            "ignore_case_flag": 1,
154                            "index": 0,
155                            "name": "Name",
156                            "value_type": "String"
157                          },
158                          {
159                            "_type": "subcolumn",
160                            "hidden_flag": 0,
161                            "ignore_case_flag": 1,
162                            "index": 1,
163                            "name": "Version",
164                            "value_type": "Version"
165                          },
166                          {
167                            "_type": "subcolumn",
```

```
168                  "hidden_flag": 1,
169                  "ignore_case_flag": 1,
170                  "index": 2,
171                  "name": "Silent Uninstall String",
172                  "value_type": "String"
173                },
174                {
175                  "_type": "subcolumn",
176                  "hidden_flag": 1,
177                  "ignore_case_flag": 1,
178                  "index": 3,
179                  "name": "Uninstallable",
180                  "value_type": "String"
181                }
182              ]
183            },
184            "value_type": "String"
185          }
186        }
187      ]
188    },
189    "skip_lock_flag": 0,
190    "user": {
191      "_type": "user",
192      "id": 2,
193      "name": "Tanium User"
194    }
195  },
196  "row_count_flag": 0,
197  "sort_column": 0,
198  "user": {
199    "_type": "user",
200    "id": 1,
201    "name": "Jim Olsen"
202  }
203 }
```

Get user by id

Get a user by id

Example Python Code

```python
1  # Path to lib directory which contains pytan package
2  PYTAN_LIB_PATH = '../lib'
3
4  # connection info for Tanium Server
5  USERNAME = "Tanium User"
6  PASSWORD = "T@n!um"
7  HOST = "172.16.31.128"
8  PORT = "444"
9
10 # Logging conrols
11 LOGLEVEL = 2
12 DEBUGFORMAT = False
```

```python
13
14  import sys, tempfile
15  sys.path.append(PYTAN_LIB_PATH)
16
17  import pytan
18  handler = pytan.Handler(
19      username=USERNAME,
20      password=PASSWORD,
21      host=HOST,
22      port=PORT,
23      loglevel=LOGLEVEL,
24      debugformat=DEBUGFORMAT,
25  )
26
27  print handler
28
29  # setup the arguments for the handler method
30  kwargs = {}
31  kwargs["objtype"] = u'user'
32  kwargs["id"] = 1
33
34  # call the handler with the get method, passing in kwargs for arguments
35  response = handler.get(**kwargs)
36
37  print ""
38  print "Type of response: ", type(response)
39
40  print ""
41  print "print of response:"
42  print response
43
44  print ""
45  print "length of response (number of objects returned): "
46  print len(response)
47
48  print ""
49  print "print the first object returned in JSON format:"
50  print response.to_json(response[0])
```

Output from Python Code

```
1   Handler for Session to 172.16.31.128:444, Authenticated: True, Version: 6.2.314.3258
2
3   Type of response:  <class 'taniumpy.object_types.user_list.UserList'>
4
5   print of response:
6   UserList, len: 1
7
8   length of response (number of objects returned):
9   1
10
11  print the first object returned in JSON format:
12  {
13    "_type": "user",
14    "deleted_flag": 0,
15    "group_id": 0,
16    "id": 1,
```

```
17      "last_login": "2014-12-06T18:02:13",
18      "name": "Jim Olsen",
19      "permissions": {
20        "_type": "permissions",
21        "permission": "admin"
22      },
23      "roles": {
24        "_type": "roles",
25        "role": [
26          {
27            "_type": "role",
28            "description": "Administrators can perform all functions in the system, including creating c
29            "id": 1,
30            "name": "Administrator",
31            "permissions": {
32              "_type": "permissions",
33              "permission": "admin"
34            }
35          }
36        ]
37      }
38    }
```

Get sensor by name

Get a sensor by name

Example Python Code

```
1   # Path to lib directory which contains pytan package
2   PYTAN_LIB_PATH = '../lib'
3
4   # connection info for Tanium Server
5   USERNAME = "Tanium User"
6   PASSWORD = "T@n!um"
7   HOST = "172.16.31.128"
8   PORT = "444"
9
10  # Logging conrols
11  LOGLEVEL = 2
12  DEBUGFORMAT = False
13
14  import sys, tempfile
15  sys.path.append(PYTAN_LIB_PATH)
16
17  import pytan
18  handler = pytan.Handler(
19      username=USERNAME,
20      password=PASSWORD,
21      host=HOST,
22      port=PORT,
23      loglevel=LOGLEVEL,
24      debugformat=DEBUGFORMAT,
25  )
26
```

```
27   print handler
28
29   # setup the arguments for the handler method
30   kwargs = {}
31   kwargs["objtype"] = u'sensor'
32   kwargs["name"] = u'Computer Name'
33
34   # call the handler with the get method, passing in kwargs for arguments
35   response = handler.get(**kwargs)
36
37   print ""
38   print "Type of response: ", type(response)
39
40   print ""
41   print "print of response:"
42   print response
43
44   print ""
45   print "length of response (number of objects returned): "
46   print len(response)
47
48   print ""
49   print "print the first object returned in JSON format:"
50   print response.to_json(response[0])
```

Output from Python Code

```
1    Handler for Session to 172.16.31.128:444, Authenticated: True, Version: 6.2.314.3258
2
3    Type of response:  <class 'taniumpy.object_types.sensor_list.SensorList'>
4
5    print of response:
6    SensorList, len: 1
7
8    length of response (number of objects returned):
9    1
10
11   print the first object returned in JSON format:
12   {
13     "_type": "sensor",
14     "category": "Reserved",
15     "description": "The assigned name of the client machine.\nExample: workstation-1.company.com",
16     "exclude_from_parse_flag": 0,
17     "hash": 3409330187,
18     "hidden_flag": 0,
19     "id": 3,
20     "ignore_case_flag": 1,
21     "max_age_seconds": 86400,
22     "name": "Computer Name",
23     "queries": {
24       "_type": "queries",
25       "query": [
26         {
27           "_type": "query",
28           "platform": "Windows",
29           "script": "select CSName from win32_operatingsystem",
30           "script_type": "WMIQuery"
```

```
31          }
32        ]
33      },
34      "source_id": 0,
35      "string_count": 7,
36      "value_type": "String"
37    }
```

Get saved action by name

Get a saved action by name

Example Python Code

```python
1   # Path to lib directory which contains pytan package
2   PYTAN_LIB_PATH = '../lib'
3
4   # connection info for Tanium Server
5   USERNAME = "Tanium User"
6   PASSWORD = "T@n!um"
7   HOST = "172.16.31.128"
8   PORT = "444"
9
10  # Logging conrols
11  LOGLEVEL = 2
12  DEBUGFORMAT = False
13
14  import sys, tempfile
15  sys.path.append(PYTAN_LIB_PATH)
16
17  import pytan
18  handler = pytan.Handler(
19      username=USERNAME,
20      password=PASSWORD,
21      host=HOST,
22      port=PORT,
23      loglevel=LOGLEVEL,
24      debugformat=DEBUGFORMAT,
25  )
26
27  print handler
28
29  # setup the arguments for the handler method
30  kwargs = {}
31  kwargs["objtype"] = u'saved_action'
32  kwargs["name"] = u'Distribute Tanium Standard Utilities'
33
34  # call the handler with the get method, passing in kwargs for arguments
35  response = handler.get(**kwargs)
36
37  print ""
38  print "Type of response: ", type(response)
39
40  print ""
41  print "print of response:"
```

```
42  print response
43
44  print ""
45  print "length of response (number of objects returned): "
46  print len(response)
47
48  print ""
49  print "print the first object returned in JSON format:"
50  print response.to_json(response[0])
```

Output from Python Code

```
1   Handler for Session to 172.16.31.128:444, Authenticated: True, Version: 6.2.314.3258
2
3   Type of response:  <class 'taniumpy.object_types.saved_action_list.SavedActionList'>
4
5   print of response:
6   SavedActionList, len: 1
7
8   length of response (number of objects returned):
9   1
10
11  print the first object returned in JSON format:
12  {
13    "_type": "saved_action",
14    "action_group_id": 0,
15    "comment": "Distributes the Hardware Tools used for hardware identification.",
16    "creation_time": "2014-12-06T18:02:04",
17    "distribute_seconds": 0,
18    "end_time": "Never",
19    "expire_seconds": 660,
20    "id": 14,
21    "issue_count": 0,
22    "issue_seconds": 86400,
23    "last_action": {
24      "_type": "action",
25      "id": 4294967295,
26      "start_time": "Never"
27    },
28    "name": "Distribute Hardware Tools",
29    "package_spec": {
30      "_type": "package_spec",
31      "id": 4294967295
32    },
33    "policy": {
34      "_type": "policy",
35      "max_age": 86400,
36      "min_count": 0,
37      "row_filter_group_id": 208,
38      "saved_question_group_id": 0,
39      "saved_question_id": 13
40    },
41    "policy_flag": 1,
42    "status": 0,
43    "user": {
44      "_type": "user",
45      "id": 1
```

```
46        }
47    }
```

Get all users

Get all users

Example Python Code

```python
1   # Path to lib directory which contains pytan package
2   PYTAN_LIB_PATH = '../lib'
3
4   # connection info for Tanium Server
5   USERNAME = "Tanium User"
6   PASSWORD = "T@n!um"
7   HOST = "172.16.31.128"
8   PORT = "444"
9
10  # Logging conrols
11  LOGLEVEL = 2
12  DEBUGFORMAT = False
13
14  import sys, tempfile
15  sys.path.append(PYTAN_LIB_PATH)
16
17  import pytan
18  handler = pytan.Handler(
19      username=USERNAME,
20      password=PASSWORD,
21      host=HOST,
22      port=PORT,
23      loglevel=LOGLEVEL,
24      debugformat=DEBUGFORMAT,
25  )
26
27  print handler
28
29  # setup the arguments for the handler method
30  kwargs = {}
31  kwargs["objtype"] = u'user'
32
33  # call the handler with the get_all method, passing in kwargs for arguments
34  response = handler.get_all(**kwargs)
35
36  print ""
37  print "Type of response: ", type(response)
38
39  print ""
40  print "print of response:"
41  print response
42
43  print ""
44  print "length of response (number of objects returned): "
45  print len(response)
46
```

```
47  print ""
48  print "print the first object returned in JSON format:"
49  print response.to_json(response[0])
```

Output from Python Code

```
1   Handler for Session to 172.16.31.128:444, Authenticated: True, Version: 6.2.314.3258
2
3   Type of response:  <class 'taniumpy.object_types.user_list.UserList'>
4
5   print of response:
6   UserList, len: 3
7
8   length of response (number of objects returned):
9   3
10
11  print the first object returned in JSON format:
12  {
13    "_type": "user",
14    "deleted_flag": 0,
15    "group_id": 0,
16    "id": 1,
17    "last_login": "2014-12-06T18:02:13",
18    "name": "Jim Olsen",
19    "permissions": {
20      "_type": "permissions",
21      "permission": "admin"
22    },
23    "roles": {
24      "_type": "roles",
25      "role": [
26        {
27          "_type": "role",
28          "description": "Administrators can perform all functions in the system, including creating o
29          "id": 1,
30          "name": "Administrator",
31          "permissions": {
32            "_type": "permissions",
33            "permission": "admin"
34          }
35        }
36      ]
37    }
38  }
```

Get all saved actions

Get all saved actions

Example Python Code

```
1   # Path to lib directory which contains pytan package
2   PYTAN_LIB_PATH = '../lib'
3
```

```
4    # connection info for Tanium Server
5    USERNAME = "Tanium User"
6    PASSWORD = "T@n!um"
7    HOST = "172.16.31.128"
8    PORT = "444"
9
10   # Logging conrols
11   LOGLEVEL = 2
12   DEBUGFORMAT = False
13
14   import sys, tempfile
15   sys.path.append(PYTAN_LIB_PATH)
16
17   import pytan
18   handler = pytan.Handler(
19       username=USERNAME,
20       password=PASSWORD,
21       host=HOST,
22       port=PORT,
23       loglevel=LOGLEVEL,
24       debugformat=DEBUGFORMAT,
25   )
26
27   print handler
28
29   # setup the arguments for the handler method
30   kwargs = {}
31   kwargs["objtype"] = u'saved_action'
32
33   # call the handler with the get_all method, passing in kwargs for arguments
34   response = handler.get_all(**kwargs)
35
36   print ""
37   print "Type of response: ", type(response)
38
39   print ""
40   print "print of response:"
41   print response
42
43   print ""
44   print "length of response (number of objects returned): "
45   print len(response)
46
47   print ""
48   print "print the first object returned in JSON format:"
49   print response.to_json(response[0])
```

Output from Python Code

```
1    Handler for Session to 172.16.31.128:444, Authenticated: True, Version: 6.2.314.3258
2
3    Type of response:  <class 'taniumpy.object_types.saved_action_list.SavedActionList'>
4
5    print of response:
6    SavedActionList, len: 49
7
8    length of response (number of objects returned):
```

```
 9   49
10
11   print the first object returned in JSON format:
12   {
13     "_type": "saved_action",
14     "action_group_id": 0,
15     "cache_row_id": 0,
16     "comment": "Scans for unmanaged assets on the network.",
17     "creation_time": "2014-12-06T18:02:01",
18     "distribute_seconds": 600,
19     "end_time": "Never",
20     "expire_seconds": 1800,
21     "id": 1,
22     "issue_count": 13,
23     "issue_seconds": 3600,
24     "last_action": {
25       "_type": "action",
26       "id": 68,
27       "start_time": "2014-12-07T06:02:01"
28     },
29     "name": "Unmanaged Asset Tracking – Run Scan",
30     "package_spec": {
31       "_type": "package_spec",
32       "id": 6
33     },
34     "policy": {
35       "_type": "policy",
36       "max_age": 3600,
37       "min_count": 0,
38       "row_filter_group_id": 66,
39       "saved_question_group_id": 0,
40       "saved_question_id": 1
41     },
42     "policy_flag": 1,
43     "status": 0,
44     "user": {
45       "_type": "user",
46       "id": 1
47     }
48   }
```

Get all settings

Get all system settings

Example Python Code

```python
1   # Path to lib directory which contains pytan package
2   PYTAN_LIB_PATH = '../lib'
3
4   # connection info for Tanium Server
5   USERNAME = "Tanium User"
6   PASSWORD = "T@n!um"
7   HOST = "172.16.31.128"
8   PORT = "444"
```

```
9
10    # Logging conrols
11    LOGLEVEL = 2
12    DEBUGFORMAT = False
13
14    import sys, tempfile
15    sys.path.append(PYTAN_LIB_PATH)
16
17    import pytan
18    handler = pytan.Handler(
19        username=USERNAME,
20        password=PASSWORD,
21        host=HOST,
22        port=PORT,
23        loglevel=LOGLEVEL,
24        debugformat=DEBUGFORMAT,
25    )
26
27    print handler
28
29    # setup the arguments for the handler method
30    kwargs = {}
31    kwargs["objtype"] = u'setting'
32
33    # call the handler with the get_all method, passing in kwargs for arguments
34    response = handler.get_all(**kwargs)
35
36    print ""
37    print "Type of response: ", type(response)
38
39    print ""
40    print "print of response:"
41    print response
42
43    print ""
44    print "length of response (number of objects returned): "
45    print len(response)
46
47    print ""
48    print "print the first object returned in JSON format:"
49    print response.to_json(response[0])
```

Output from Python Code

```
1     Handler for Session to 172.16.31.128:444, Authenticated: True, Version: 6.2.314.3258
2
3     Type of response:  <class 'taniumpy.object_types.system_settings_list.SystemSettingsList'>
4
5     print of response:
6     SystemSettingsList, len: 88
7
8     length of response (number of objects returned):
9     88
10
11    print the first object returned in JSON format:
12    {
13      "_type": "system_setting",
```

```
14      "cache_row_id": 0,
15      "default_value": "0",
16      "hidden_flag": 0,
17      "id": 1,
18      "name": "load_initial_content",
19      "read_only_flag": 0,
20      "setting_type": "Server",
21      "value": "0",
22      "value_type": "Numeric"
23    }
```

Get all saved questions

Get all saved questions

Example Python Code

```python
1    # Path to lib directory which contains pytan package
2    PYTAN_LIB_PATH = '../lib'
3
4    # connection info for Tanium Server
5    USERNAME = "Tanium User"
6    PASSWORD = "T@n!um"
7    HOST = "172.16.31.128"
8    PORT = "444"
9
10   # Logging conrols
11   LOGLEVEL = 2
12   DEBUGFORMAT = False
13
14   import sys, tempfile
15   sys.path.append(PYTAN_LIB_PATH)
16
17   import pytan
18   handler = pytan.Handler(
19       username=USERNAME,
20       password=PASSWORD,
21       host=HOST,
22       port=PORT,
23       loglevel=LOGLEVEL,
24       debugformat=DEBUGFORMAT,
25   )
26
27   print handler
28
29   # setup the arguments for the handler method
30   kwargs = {}
31   kwargs["objtype"] = u'saved_question'
32
33   # call the handler with the get_all method, passing in kwargs for arguments
34   response = handler.get_all(**kwargs)
35
36   print ""
37   print "Type of response: ", type(response)
38
```

```python
39  print ""
40  print "print of response:"
41  print response
42
43  print ""
44  print "length of response (number of objects returned): "
45  print len(response)
46
47  print ""
48  print "print the first object returned in JSON format:"
49  print response.to_json(response[0])
```

Output from Python Code

```
1   Handler for Session to 172.16.31.128:444, Authenticated: True, Version: 6.2.314.3258
2
3   Type of response:  <class 'taniumpy.object_types.saved_question_list.SavedQuestionList'>
4
5   print of response:
6   SavedQuestionList, len: 173
7
8   length of response (number of objects returned):
9   173
10
11  print the first object returned in JSON format:
12  {
13    "_type": "saved_question",
14    "action_tracking_flag": 0,
15    "archive_enabled_flag": 0,
16    "archive_owner": {
17      "_type": "user",
18      "id": 1,
19      "name": "Jim Olsen"
20    },
21    "cache_row_id": 0,
22    "expire_seconds": 600,
23    "hidden_flag": 0,
24    "id": 1,
25    "issue_seconds": 120,
26    "issue_seconds_never_flag": 0,
27    "keep_seconds": 3600,
28    "mod_time": "2014-12-06T18:01:04",
29    "mod_user": {
30      "_type": "user",
31      "name": "Jim Olsen"
32    },
33    "most_recent_question_id": 987,
34    "name": "Run Unmanaged Asset Scan on All Machines",
35    "packages": {
36      "_type": "package_specs",
37      "package_spec": []
38    },
39    "public_flag": 1,
40    "query_text": "Get Is Windows from all machines",
41    "question": {
42      "_type": "question",
43      "id": 987
```

```
44      },
45      "row_count_flag": 1,
46      "sort_column": 0,
47      "user": {
48        "_type": "user",
49        "id": 1,
50        "name": "Jim Olsen"
51      }
52    }
```

Get all userroless

Get all user roles

Example Python Code

```python
1    # Path to lib directory which contains pytan package
2    PYTAN_LIB_PATH = '../lib'
3
4    # connection info for Tanium Server
5    USERNAME = "Tanium User"
6    PASSWORD = "T@n!um"
7    HOST = "172.16.31.128"
8    PORT = "444"
9
10   # Logging conrols
11   LOGLEVEL = 2
12   DEBUGFORMAT = False
13
14   import sys, tempfile
15   sys.path.append(PYTAN_LIB_PATH)
16
17   import pytan
18   handler = pytan.Handler(
19       username=USERNAME,
20       password=PASSWORD,
21       host=HOST,
22       port=PORT,
23       loglevel=LOGLEVEL,
24       debugformat=DEBUGFORMAT,
25   )
26
27   print handler
28
29   # setup the arguments for the handler method
30   kwargs = {}
31   kwargs["objtype"] = u'userrole'
32
33   # call the handler with the get_all method, passing in kwargs for arguments
34   response = handler.get_all(**kwargs)
35
36   print ""
37   print "Type of response: ", type(response)
38
39   print ""
```

```python
40  print "print of response:"
41  print response
42
43  print ""
44  print "length of response (number of objects returned): "
45  print len(response)
46
47  print ""
48  print "print the first object returned in JSON format:"
49  print response.to_json(response[0])
```

Output from Python Code

```
1   Handler for Session to 172.16.31.128:444, Authenticated: True, Version: 6.2.314.3258
2
3   Type of response:  <class 'taniumpy.object_types.user_role_list.UserRoleList'>
4
5   print of response:
6   UserRoleList, len: 9
7
8   length of response (number of objects returned):
9   9
10
11  print the first object returned in JSON format:
12  {
13    "_type": "role",
14    "description": "Administrators can perform all functions in the system, including creating other u
15    "id": 1,
16    "name": "Administrator",
17    "permissions": {
18      "_type": "permissions",
19      "permission": "admin"
20    }
21  }
```

Get all questions

Get all questions

Example Python Code

```python
1   # Path to lib directory which contains pytan package
2   PYTAN_LIB_PATH = '../lib'
3
4   # connection info for Tanium Server
5   USERNAME = "Tanium User"
6   PASSWORD = "T@n!um"
7   HOST = "172.16.31.128"
8   PORT = "444"
9
10  # Logging conrols
11  LOGLEVEL = 2
12  DEBUGFORMAT = False
13
```

```python
14  import sys, tempfile
15  sys.path.append(PYTAN_LIB_PATH)
16
17  import pytan
18  handler = pytan.Handler(
19      username=USERNAME,
20      password=PASSWORD,
21      host=HOST,
22      port=PORT,
23      loglevel=LOGLEVEL,
24      debugformat=DEBUGFORMAT,
25  )
26
27  print handler
28
29  # setup the arguments for the handler method
30  kwargs = {}
31  kwargs["objtype"] = u'question'
32
33  # call the handler with the get_all method, passing in kwargs for arguments
34  response = handler.get_all(**kwargs)
35
36  print ""
37  print "Type of response: ", type(response)
38
39  print ""
40  print "print of response:"
41  print response
42
43  print ""
44  print "length of response (number of objects returned): "
45  print len(response)
46
47  print ""
48  print "print the first object returned in JSON format:"
49  print response.to_json(response[0])
```

Output from Python Code

```
1   Handler for Session to 172.16.31.128:444, Authenticated: True, Version: 6.2.314.3258
2
3   Type of response:  <class 'taniumpy.object_types.question_list.QuestionList'>
4
5   print of response:
6   QuestionList, len: 830
7
8   length of response (number of objects returned):
9   830
10
11  print the first object returned in JSON format:
12  {
13    "_type": "question",
14    "action_tracking_flag": 0,
15    "cache_row_id": 0,
16    "context_group": {
17      "_type": "group",
18      "id": 0
```

```
19      },
20      "expiration": "2014-12-06T18:08:58",
21      "expire_seconds": 600,
22      "hidden_flag": 0,
23      "id": 1,
24      "management_rights_group": {
25        "_type": "group",
26        "id": 0
27      },
28      "query_text": "Get Action Statuses matches \"Nil\" from all machines",
29      "saved_question": {
30        "_type": "saved_question",
31        "id": 4294967295
32      },
33      "skip_lock_flag": 0,
34      "user": {
35        "_type": "user",
36        "group_id": 0,
37        "id": 1,
38        "name": "Jim Olsen"
39      }
40    }
```

Get all groups

Get all groups

Example Python Code

```python
1   # Path to lib directory which contains pytan package
2   PYTAN_LIB_PATH = '../lib'
3
4   # connection info for Tanium Server
5   USERNAME = "Tanium User"
6   PASSWORD = "T@n!um"
7   HOST = "172.16.31.128"
8   PORT = "444"
9
10  # Logging conrols
11  LOGLEVEL = 2
12  DEBUGFORMAT = False
13
14  import sys, tempfile
15  sys.path.append(PYTAN_LIB_PATH)
16
17  import pytan
18  handler = pytan.Handler(
19      username=USERNAME,
20      password=PASSWORD,
21      host=HOST,
22      port=PORT,
23      loglevel=LOGLEVEL,
24      debugformat=DEBUGFORMAT,
25  )
26
```

```
27   print handler
28
29   # setup the arguments for the handler method
30   kwargs = {}
31   kwargs["objtype"] = u'group'
32
33   # call the handler with the get_all method, passing in kwargs for arguments
34   response = handler.get_all(**kwargs)
35
36   print ""
37   print "Type of response: ", type(response)
38
39   print ""
40   print "print of response:"
41   print response
42
43   print ""
44   print "length of response (number of objects returned): "
45   print len(response)
46
47   print ""
48   print "print the first object returned in JSON format:"
49   print response.to_json(response[0])
```

Output from Python Code

```
1    Handler for Session to 172.16.31.128:444, Authenticated: True, Version: 6.2.314.3258
2
3    Type of response:  <class 'taniumpy.object_types.group_list.GroupList'>
4
5    print of response:
6    GroupList, len: 2
7
8    length of response (number of objects returned):
9    2
10
11   print the first object returned in JSON format:
12   {
13     "_type": "group",
14     "and_flag": 0,
15     "deleted_flag": 0,
16     "filters": {
17       "_type": "filters",
18       "filter": []
19     },
20     "id": 1,
21     "name": "All Computers",
22     "not_flag": 0,
23     "sub_groups": {
24       "_type": "groups",
25       "group": []
26     },
27     "type": 0
28   }
```

Get all sensors

Get all sensors

Example Python Code

```python
1   # Path to lib directory which contains pytan package
2   PYTAN_LIB_PATH = '../lib'
3
4   # connection info for Tanium Server
5   USERNAME = "Tanium User"
6   PASSWORD = "T@n!um"
7   HOST = "172.16.31.128"
8   PORT = "444"
9
10  # Logging conrols
11  LOGLEVEL = 2
12  DEBUGFORMAT = False
13
14  import sys, tempfile
15  sys.path.append(PYTAN_LIB_PATH)
16
17  import pytan
18  handler = pytan.Handler(
19      username=USERNAME,
20      password=PASSWORD,
21      host=HOST,
22      port=PORT,
23      loglevel=LOGLEVEL,
24      debugformat=DEBUGFORMAT,
25  )
26
27  print handler
28
29  # setup the arguments for the handler method
30  kwargs = {}
31  kwargs["objtype"] = u'sensor'
32
33  # call the handler with the get_all method, passing in kwargs for arguments
34  response = handler.get_all(**kwargs)
35
36  print ""
37  print "Type of response: ", type(response)
38
39  print ""
40  print "print of response:"
41  print response
42
43  print ""
44  print "length of response (number of objects returned): "
45  print len(response)
46
47  print ""
48  print "print the first object returned in JSON format:"
49  print response.to_json(response[0])
```

Output from Python Code

```
Handler for Session to 172.16.31.128:444, Authenticated: True, Version: 6.2.314.3258

Type of response:  <class 'taniumpy.object_types.sensor_list.SensorList'>

print of response:
SensorList, len: 657

length of response (number of objects returned):
657

print the first object returned in JSON format:
{
  "_type": "sensor",
  "cache_row_id": 0,
  "category": "Reserved",
  "description": "The recorded state of each action a client has taken recently in the form of id:st
  "exclude_from_parse_flag": 1,
  "hash": 1792443391,
  "hidden_flag": 0,
  "id": 1,
  "ignore_case_flag": 1,
  "max_age_seconds": 3600,
  "name": "Action Statuses",
  "queries": {
    "_type": "queries",
    "query": [
      {
        "_type": "query",
        "platform": "Windows",
        "script": "Reserved",
        "script_type": "WMIQuery"
      }
    ]
  },
  "source_id": 0,
  "string_count": 3354,
  "value_type": "String"
}
```

Get all whitelisted urls

Get all whitelisted urls

Example Python Code

```python
# Path to lib directory which contains pytan package
PYTAN_LIB_PATH = '../lib'

# connection info for Tanium Server
USERNAME = "Tanium User"
PASSWORD = "T@n!um"
HOST = "172.16.31.128"
PORT = "444"
```

```python
10   # Logging conrols
11   LOGLEVEL = 2
12   DEBUGFORMAT = False
13
14   import sys, tempfile
15   sys.path.append(PYTAN_LIB_PATH)
16
17   import pytan
18   handler = pytan.Handler(
19       username=USERNAME,
20       password=PASSWORD,
21       host=HOST,
22       port=PORT,
23       loglevel=LOGLEVEL,
24       debugformat=DEBUGFORMAT,
25   )
26
27   print handler
28
29   # setup the arguments for the handler method
30   kwargs = {}
31   kwargs["objtype"] = u'whitelisted_url'
32
33   # call the handler with the get_all method, passing in kwargs for arguments
34   response = handler.get_all(**kwargs)
35
36   print ""
37   print "Type of response: ", type(response)
38
39   print ""
40   print "print of response:"
41   print response
42
43   print ""
44   print "length of response (number of objects returned): "
45   print len(response)
46
47   print ""
48   print "print the first object returned in JSON format:"
49   print response.to_json(response[0])
```

Output from Python Code

```
1    Handler for Session to 172.16.31.128:444, Authenticated: True, Version: 6.2.314.3258
2
3    Type of response:  <class 'taniumpy.object_types.white_listed_url_list.WhiteListedUrlList'>
4
5    print of response:
6    WhiteListedUrlList, len: 4
7
8    length of response (number of objects returned):
9    4
10
11   print the first object returned in JSON format:
12   {
13     "_type": "white_listed_url",
14     "download_seconds": 86400,
```

```
15      "id": 1,
16      "url_regex": "test1"
17  }
```

Get all clients

Get all clients

Example Python Code

```python
1   # Path to lib directory which contains pytan package
2   PYTAN_LIB_PATH = '../lib'
3
4   # connection info for Tanium Server
5   USERNAME = "Tanium User"
6   PASSWORD = "T@n!um"
7   HOST = "172.16.31.128"
8   PORT = "444"
9
10  # Logging conrols
11  LOGLEVEL = 2
12  DEBUGFORMAT = False
13
14  import sys, tempfile
15  sys.path.append(PYTAN_LIB_PATH)
16
17  import pytan
18  handler = pytan.Handler(
19      username=USERNAME,
20      password=PASSWORD,
21      host=HOST,
22      port=PORT,
23      loglevel=LOGLEVEL,
24      debugformat=DEBUGFORMAT,
25  )
26
27  print handler
28
29  # setup the arguments for the handler method
30  kwargs = {}
31  kwargs["objtype"] = u'client'
32
33  # call the handler with the get_all method, passing in kwargs for arguments
34  response = handler.get_all(**kwargs)
35
36  print ""
37  print "Type of response: ", type(response)
38
39  print ""
40  print "print of response:"
41  print response
42
43  print ""
44  print "length of response (number of objects returned): "
45  print len(response)
```

```
46
47   print ""
48   print "print the first object returned in JSON format:"
49   print response.to_json(response[0])
```

Output from Python Code

```
1    Handler for Session to 172.16.31.128:444, Authenticated: True, Version: 6.2.314.3258
2
3    Type of response:  <class 'taniumpy.object_types.system_status_list.SystemStatusList'>
4
5    print of response:
6    SystemStatusList, len: 2
7
8    length of response (number of objects returned):
9    2
10
11   print the first object returned in JSON format:
12   {
13     "_type": "client_status",
14     "cache_row_id": 0,
15     "computer_id": "476604158",
16     "full_version": "5.1.314.7724",
17     "host_name": "Casus-Belli.local",
18     "ipaddress_client": "172.16.31.1",
19     "ipaddress_server": "172.16.31.1",
20     "last_registration": "2014-12-07T06:08:39",
21     "port_number": 17472,
22     "protocol_version": 314,
23     "send_state": "Forward Only",
24     "status": "Leader, Slow Link Behind"
25   }
```

Get all packages

Get all packages

Example Python Code

```
1    # Path to lib directory which contains pytan package
2    PYTAN_LIB_PATH = '../lib'
3
4    # connection info for Tanium Server
5    USERNAME = "Tanium User"
6    PASSWORD = "T@n!um"
7    HOST = "172.16.31.128"
8    PORT = "444"
9
10   # Logging conrols
11   LOGLEVEL = 2
12   DEBUGFORMAT = False
13
14   import sys, tempfile
15   sys.path.append(PYTAN_LIB_PATH)
```

```python
16
17  import pytan
18  handler = pytan.Handler(
19      username=USERNAME,
20      password=PASSWORD,
21      host=HOST,
22      port=PORT,
23      loglevel=LOGLEVEL,
24      debugformat=DEBUGFORMAT,
25  )
26
27  print handler
28
29  # setup the arguments for the handler method
30  kwargs = {}
31  kwargs["objtype"] = u'package'
32
33  # call the handler with the get_all method, passing in kwargs for arguments
34  response = handler.get_all(**kwargs)
35
36  print ""
37  print "Type of response: ", type(response)
38
39  print ""
40  print "print of response:"
41  print response
42
43  print ""
44  print "length of response (number of objects returned): "
45  print len(response)
46
47  print ""
48  print "print the first object returned in JSON format:"
49  print response.to_json(response[0])
```

Output from Python Code

```
1   Handler for Session to 172.16.31.128:444, Authenticated: True, Version: 6.2.314.3258
2
3   Type of response:  <class 'taniumpy.object_types.package_spec_list.PackageSpecList'>
4
5   print of response:
6   PackageSpecList, len: 89
7
8   length of response (number of objects returned):
9   89
10
11  print the first object returned in JSON format:
12  {
13    "_type": "package_spec",
14    "available_time": "2014-12-06T18:01:03",
15    "cache_row_id": 0,
16    "command": "cmd /c cscript //T:900 java-installer.vbs /KillAppsUsingJava:Yes /RebootIfNeeded:Yes /
17    "command_timeout": 900,
18    "creation_time": "2014-12-06T18:00:27",
19    "deleted_flag": 0,
20    "display_name": "Update Java 64-bit - Kill / Reboot",
```

```
21      "expire_seconds": 1500,
22      "files": {
23        "_type": "package_files",
24        "file": [
25          {
26            "_type": "file",
27            "bytes_downloaded": 17509,
28            "bytes_total": 17509,
29            "cache_status": "CACHED",
30            "download_seconds": 0,
31            "download_start_time": "2014-12-06T18:00:31",
32            "hash": "30bf532c4c1c5bb9599487712f88ff42190ccd2678192f7e61b160e6592cfbfe",
33            "id": 1,
34            "last_download_progress_time": "2014-12-06T18:00:53",
35            "name": "java-installer.vbs",
36            "size": 17509,
37            "source": "https://content.tanium.com/files/initialcontent/bundles/2014-11-05_12-56-07-8513/
38            "status": 200
39          }
40        ]
41      },
42      "hidden_flag": 0,
43      "id": 1,
44      "last_modified_by": "Jim Olsen",
45      "last_update": "2014-12-06T18:00:27",
46      "metadata": {
47        "_type": "metadata",
48        "item": [
49          {
50            "_type": "item",
51            "admin_flag": 0,
52            "name": "defined",
53            "value": "Tanium"
54          },
55          {
56            "_type": "item",
57            "admin_flag": 0,
58            "name": "category",
59            "value": "Tanium"
60          }
61        ]
62      },
63      "modification_time": "2014-12-06T18:00:27",
64      "name": "Update Java 64-bit - Kill / Reboot",
65      "source_id": 0,
66      "verify_group_id": 0
67    }
```

Get all actions

Get all actions

Example Python Code

```python
1   # Path to lib directory which contains pytan package
2   PYTAN_LIB_PATH = '../lib'
3
4   # connection info for Tanium Server
5   USERNAME = "Tanium User"
6   PASSWORD = "T@n!um"
7   HOST = "172.16.31.128"
8   PORT = "444"
9
10  # Logging conrols
11  LOGLEVEL = 2
12  DEBUGFORMAT = False
13
14  import sys, tempfile
15  sys.path.append(PYTAN_LIB_PATH)
16
17  import pytan
18  handler = pytan.Handler(
19      username=USERNAME,
20      password=PASSWORD,
21      host=HOST,
22      port=PORT,
23      loglevel=LOGLEVEL,
24      debugformat=DEBUGFORMAT,
25  )
26
27  print handler
28
29  # setup the arguments for the handler method
30  kwargs = {}
31  kwargs["objtype"] = u'action'
32
33  # call the handler with the get_all method, passing in kwargs for arguments
34  response = handler.get_all(**kwargs)
35
36  print ""
37  print "Type of response: ", type(response)
38
39  print ""
40  print "print of response:"
41  print response
42
43  print ""
44  print "length of response (number of objects returned): "
45  print len(response)
46
47  print ""
48  print "print the first object returned in JSON format:"
49  print response.to_json(response[0])
```

Output from Python Code

```
1   Handler for Session to 172.16.31.128:444, Authenticated: True, Version: 6.2.314.3258
2
3   Type of response:  <class 'taniumpy.object_types.action_list.ActionList'>
4
```

```
5  print of response:
6  ActionList, len: 55
7
8  length of response (number of objects returned):
9  55
10
11 print the first object returned in JSON format:
12 {
13   "_type": "action",
14   "action_group": {
15     "_type": "group",
16     "id": 0,
17     "name": "Default"
18   },
19   "cache_row_id": 0,
20   "comment": "Scans for unmanaged assets on the network.",
21   "creation_time": "2014-12-06T18:03:32",
22   "distribute_seconds": 600,
23   "expiration_time": "2014-12-06T18:53:32",
24   "expire_seconds": 3000,
25   "history_saved_question": {
26     "_type": "saved_question",
27     "id": 173
28   },
29   "id": 16,
30   "name": "Unmanaged Asset Tracking - Run Scan",
31   "package_spec": {
32     "_type": "package_spec",
33     "command": "cmd /c start /B cscript //T:3600 ..\\..\\Tools\\run-ua-scan.vbs /RANDOM_WAIT_TIME_IN
34     "id": 6,
35     "name": "Run Unmanaged Asset Scanner"
36   },
37   "saved_action": {
38     "_type": "saved_action",
39     "id": 16
40   },
41   "skip_lock_flag": 0,
42   "start_time": "2014-12-06T18:03:32",
43   "status": "Active",
44   "stopped_flag": 0,
45   "target_group": {
46     "_type": "group",
47     "id": 65,
48     "name": "Default"
49   },
50   "user": {
51     "_type": "user",
52     "group_id": 0,
53     "id": 2,
54     "last_login": "2014-12-06T18:03:37",
55     "name": "Tanium User"
56   }
57 }
```

pytan API Invalid Get Object Examples

Invalid get action single by name

Get an action by name (name is not a supported selector for action)

Example Python Code

```python
# Path to lib directory which contains pytan package
PYTAN_LIB_PATH = '../lib'

# connection info for Tanium Server
USERNAME = "Tanium User"
PASSWORD = "T@n!um"
HOST = "172.16.31.128"
PORT = "444"

# Logging conrols
LOGLEVEL = 2
DEBUGFORMAT = False

import sys, tempfile
sys.path.append(PYTAN_LIB_PATH)

import pytan
handler = pytan.Handler(
    username=USERNAME,
    password=PASSWORD,
    host=HOST,
    port=PORT,
    loglevel=LOGLEVEL,
    debugformat=DEBUGFORMAT,
)

print handler

# setup the arguments for the handler method
kwargs = {}
kwargs["objtype"] = u'action'
kwargs["name"] = u'Distribute Tanium Standard Utilities'


# call the handler with the get method, passing in kwargs for arguments
# this should throw an exception: pytan.utils.HandlerError
import traceback
try:
    handler.get(**kwargs)
except Exception as e:
    traceback.print_exc(file=sys.stdout)
```

Output from Python Code

```
Handler for Session to 172.16.31.128:444, Authenticated: True, Version: 6.2.314.3258
Traceback (most recent call last):
  File "<string>", line 39, in <module>
  File "/Users/jolsen/gh/pytan/lib/pytan/handler.py", line 1499, in get
```

```
5        raise HandlerError(err(objtype, api_attrs))
6    HandlerError: Getting a action requires at least one filter: ['id']
```

Invalid get question by name

Get a question by name (name is not a supported selector for question)

Example Python Code

```python
1    # Path to lib directory which contains pytan package
2    PYTAN_LIB_PATH = '../lib'
3
4    # connection info for Tanium Server
5    USERNAME = "Tanium User"
6    PASSWORD = "T@n!um"
7    HOST = "172.16.31.128"
8    PORT = "444"
9
10   # Logging conrols
11   LOGLEVEL = 2
12   DEBUGFORMAT = False
13
14   import sys, tempfile
15   sys.path.append(PYTAN_LIB_PATH)
16
17   import pytan
18   handler = pytan.Handler(
19       username=USERNAME,
20       password=PASSWORD,
21       host=HOST,
22       port=PORT,
23       loglevel=LOGLEVEL,
24       debugformat=DEBUGFORMAT,
25   )
26
27   print handler
28
29   # setup the arguments for the handler method
30   kwargs = {}
31   kwargs["objtype"] = u'question'
32   kwargs["name"] = u'dweedle'
33
34
35   # call the handler with the get method, passing in kwargs for arguments
36   # this should throw an exception: pytan.utils.HandlerError
37   import traceback
38   try:
39       handler.get(**kwargs)
40   except Exception as e:
41       traceback.print_exc(file=sys.stdout)
```

Output from Python Code

```
1  Handler for Session to 172.16.31.128:444, Authenticated: True, Version: 6.2.314.3258
2  Traceback (most recent call last):
3    File "<string>", line 39, in <module>
4    File "/Users/jolsen/gh/pytan/lib/pytan/handler.py", line 1499, in get
5      raise HandlerError(err(objtype, api_attrs))
6  HandlerError: Getting a question requires at least one filter: ['id']
```

pytan API Valid Deploy Action Examples

Deploy action simple

Deploy an action against all computers using human strings.

Example Python Code

```python
1   # Path to lib directory which contains pytan package
2   PYTAN_LIB_PATH = '../lib'
3
4   # connection info for Tanium Server
5   USERNAME = "Tanium User"
6   PASSWORD = "T@n!um"
7   HOST = "172.16.31.128"
8   PORT = "444"
9
10  # Logging conrols
11  LOGLEVEL = 2
12  DEBUGFORMAT = False
13
14  import sys, tempfile
15  sys.path.append(PYTAN_LIB_PATH)
16
17  import pytan
18  handler = pytan.Handler(
19      username=USERNAME,
20      password=PASSWORD,
21      host=HOST,
22      port=PORT,
23      loglevel=LOGLEVEL,
24      debugformat=DEBUGFORMAT,
25  )
26
27  print handler
28
29  # setup the arguments for the handler method
30  kwargs = {}
31  kwargs["run"] = True
32  kwargs["package"] = u'Distribute Tanium Standard Utilities'
33
34  # call the handler with the deploy_action_human method, passing in kwargs for arguments
35  response = handler.deploy_action_human(**kwargs)
36  import pprint, io
37
38  print ""
39  print "Type of response: ", type(response)
40
```

```
41  print ""
42  print "Pretty print of response:"
43  print pprint.pformat(response)
44
45  print ""
46  print "Print of action object: "
47  print response['action_object']
48
49  # create an IO stream to store CSV results to
50  out = io.BytesIO()
51
52  # if results were returned (i.e. get_results=True was one of the kwargs passed in):
53  if response['action_results']:
54      # call the write_csv() method to convert response to CSV and store it in out
55      response['action_results'].write_csv(out, response['action_results'])
56
57      print ""
58      print "CSV Results of response: "
59      print out.getvalue()
```

Output from Python Code

```
1   Handler for Session to 172.16.31.128:444, Authenticated: True, Version: 6.2.314.3258
2   2014-12-07 01:08:53,692 INFO     question_progress: Results 0% (Get Online = "True" from all machine
3   2014-12-07 01:08:58,710 INFO     question_progress: Results 50% (Get Online = "True" from all machin
4   2014-12-07 01:09:03,728 INFO     question_progress: Results 100% (Get Online = "True" from all machi
5   2014-12-07 01:09:03,787 INFO     action_progress: Action Results Passed: 0% (API Deploy Distribute T
6   2014-12-07 01:09:04,827 INFO     action_progress: Action Results Passed: 0% (API Deploy Distribute T
7   2014-12-07 01:09:05,855 INFO     action_progress: Action Results Passed: 0% (API Deploy Distribute T
8   2014-12-07 01:09:06,884 INFO     action_progress: Action Results Passed: 0% (API Deploy Distribute T
9   2014-12-07 01:09:07,912 INFO     action_progress: Action Results Passed: 0% (API Deploy Distribute T
10  2014-12-07 01:09:08,942 INFO     action_progress: Action Results Passed: 0% (API Deploy Distribute T
11  2014-12-07 01:09:09,972 INFO     action_progress: Action Results Passed: 0% (API Deploy Distribute T
12  2014-12-07 01:09:11,002 INFO     action_progress: Action Results Passed: 0% (API Deploy Distribute T
13  2014-12-07 01:09:12,031 INFO     action_progress: Action Results Passed: 0% (API Deploy Distribute T
14  2014-12-07 01:09:13,060 INFO     action_progress: Action Results Passed: 0% (API Deploy Distribute T
15  2014-12-07 01:09:14,087 INFO     action_progress: Action Results Passed: 0% (API Deploy Distribute T
16  2014-12-07 01:09:15,113 INFO     action_progress: Action Results Passed: 0% (API Deploy Distribute T
17  2014-12-07 01:09:16,142 INFO     action_progress: Action Results Passed: 0% (API Deploy Distribute T
18  2014-12-07 01:09:17,173 INFO     action_progress: Action Results Passed: 100% (API Deploy Distribute
19  2014-12-07 01:09:17,198 INFO     action_progress: Action Results Completed: 50% (API Deploy Distribu
20  2014-12-07 01:09:18,228 INFO     action_progress: Action Results Completed: 50% (API Deploy Distribu
21  2014-12-07 01:09:19,257 INFO     action_progress: Action Results Completed: 50% (API Deploy Distribu
22  2014-12-07 01:09:20,283 INFO     action_progress: Action Results Completed: 50% (API Deploy Distribu
23  2014-12-07 01:09:21,314 INFO     action_progress: Action Results Completed: 50% (API Deploy Distribu
24  2014-12-07 01:09:22,340 INFO     action_progress: Action Results Completed: 50% (API Deploy Distribu
25  2014-12-07 01:09:23,372 INFO     action_progress: Action Results Completed: 50% (API Deploy Distribu
26  2014-12-07 01:09:24,401 INFO     action_progress: Action Results Completed: 100% (API Deploy Distrib
27  2014-12-07 01:09:24,401 INFO     action_progress: API Deploy Distribute Tanium Standard Utilities Re
28      Running Count: 0
29      Success Count: 2
30      Failed Count: 0
31      Unknown Count: 0
32      Finished Count: 2
33      Total Count: 2
34      Finished Count must equal: 2
35
```

```
36   Type of response:  <type 'dict'>
37
38   Pretty print of response:
39   {'action_object': <taniumpy.object_types.action.Action object at 0x1023f2550>,
40    'action_progress_human': 'API Deploy Distribute Tanium Standard Utilities Result Counts:\n\tRunning
41    'action_progress_map': {'Completed.': ['Casus-Belli.local',
42                                           'jtanium1.localdomain']},
43    'action_results': <taniumpy.object_types.result_set.ResultSet object at 0x102146390>,
44    'pre_action_question_results': {'question_object': <taniumpy.object_types.question.Question object
45                                    'question_results': <taniumpy.object_types.result_set.ResultSet obj
46
47   Print of action object:
48   Action, name: 'API Deploy Distribute Tanium Standard Utilities'
49
50   CSV Results of response:
51   Action Statuses,Computer Name
52   71:Completed.,Casus-Belli.local
53   71:Completed.,jtanium1.localdomain
```

Deploy action simple without results

Deploy an action against all computers using human strings, but do not get the completed results of the job – return right away with the deploy action object.

Example Python Code

```python
# Path to lib directory which contains pytan package
PYTAN_LIB_PATH = '../lib'

# connection info for Tanium Server
USERNAME = "Tanium User"
PASSWORD = "T@n!um"
HOST = "172.16.31.128"
PORT = "444"

# Logging conrols
LOGLEVEL = 2
DEBUGFORMAT = False

import sys, tempfile
sys.path.append(PYTAN_LIB_PATH)

import pytan
handler = pytan.Handler(
    username=USERNAME,
    password=PASSWORD,
    host=HOST,
    port=PORT,
    loglevel=LOGLEVEL,
    debugformat=DEBUGFORMAT,
)

print handler

# setup the arguments for the handler method
```

```
30   kwargs = {}
31   kwargs["get_results"] = False
32   kwargs["run"] = True
33   kwargs["package"] = u'Distribute Tanium Standard Utilities'
34
35   # call the handler with the deploy_action_human method, passing in kwargs for arguments
36   response = handler.deploy_action_human(**kwargs)
37   import pprint, io
38
39   print ""
40   print "Type of response: ", type(response)
41
42   print ""
43   print "Pretty print of response:"
44   print pprint.pformat(response)
45
46   print ""
47   print "Print of action object: "
48   print response['action_object']
49
50   # create an IO stream to store CSV results to
51   out = io.BytesIO()
52
53   # if results were returned (i.e. get_results=True was one of the kwargs passed in):
54   if response['action_results']:
55       # call the write_csv() method to convert response to CSV and store it in out
56       response['action_results'].write_csv(out, response['action_results'])
57
58       print ""
59       print "CSV Results of response: "
60       print out.getvalue()
```

Output from Python Code

```
1    Handler for Session to 172.16.31.128:444, Authenticated: True, Version: 6.2.314.3258
2    2014-12-07 01:09:24,481 INFO     question_progress: Results 0% (Get Online = "True" from all machine
3    2014-12-07 01:09:29,496 INFO     question_progress: Results 100% (Get Online = "True" from all machi
4
5    Type of response:  <type 'dict'>
6
7    Pretty print of response:
8    {'action_object': <taniumpy.object_types.action.Action object at 0x10203ab90>,
9     'action_progress_human': None,
10    'action_progress_map': None,
11    'action_results': None,
12    'pre_action_question_results': {'question_object': <taniumpy.object_types.question.Question object
13                                    'question_results': <taniumpy.object_types.result_set.ResultSet obj
14
15   Print of action object:
16   Action, name: 'API Deploy Distribute Tanium Standard Utilities'
```

Deploy action simple against windows computers

Deploy an action against only windows computers using human strings. This requires passing in an action filter

Example Python Code

```python
1    # Path to lib directory which contains pytan package
2    PYTAN_LIB_PATH = '../lib'
3
4    # connection info for Tanium Server
5    USERNAME = "Tanium User"
6    PASSWORD = "T@n!um"
7    HOST = "172.16.31.128"
8    PORT = "444"
9
10   # Logging conrols
11   LOGLEVEL = 2
12   DEBUGFORMAT = False
13
14   import sys, tempfile
15   sys.path.append(PYTAN_LIB_PATH)
16
17   import pytan
18   handler = pytan.Handler(
19       username=USERNAME,
20       password=PASSWORD,
21       host=HOST,
22       port=PORT,
23       loglevel=LOGLEVEL,
24       debugformat=DEBUGFORMAT,
25   )
26
27   print handler
28
29   # setup the arguments for the handler method
30   kwargs = {}
31   kwargs["run"] = True
32   kwargs["action_filters"] = u'Operating System, that contains Windows'
33   kwargs["package"] = u'Distribute Tanium Standard Utilities'
34
35   # call the handler with the deploy_action_human method, passing in kwargs for arguments
36   response = handler.deploy_action_human(**kwargs)
37   import pprint, io
38
39   print ""
40   print "Type of response: ", type(response)
41
42   print ""
43   print "Pretty print of response:"
44   print pprint.pformat(response)
45
46   print ""
47   print "Print of action object: "
48   print response['action_object']
49
50   # create an IO stream to store CSV results to
51   out = io.BytesIO()
52
53   # if results were returned (i.e. get_results=True was one of the kwargs passed in):
54   if response['action_results']:
55       # call the write_csv() method to convert response to CSV and store it in out
56       response['action_results'].write_csv(out, response['action_results'])
57
```

```
58      print ""
59      print "CSV Results of response: "
60      print out.getvalue()
```

Output from Python Code

```
1    Handler for Session to 172.16.31.128:444, Authenticated: True, Version: 6.2.314.3258
2    2014-12-07 01:09:29,611 INFO     question_progress: Results 0% (Get Online = "True" from all machine
3    2014-12-07 01:09:34,626 INFO     question_progress: Results 0% (Get Online = "True" from all machine
4    2014-12-07 01:09:39,647 INFO     question_progress: Results 100% (Get Online = "True" from all machi
5    2014-12-07 01:09:39,744 INFO     action_progress: Action Results Passed: 0% (API Deploy Distribute T
6    2014-12-07 01:09:40,774 INFO     action_progress: Action Results Passed: 0% (API Deploy Distribute T
7    2014-12-07 01:09:41,804 INFO     action_progress: Action Results Passed: 0% (API Deploy Distribute T
8    2014-12-07 01:09:42,835 INFO     action_progress: Action Results Passed: 0% (API Deploy Distribute T
9    2014-12-07 01:09:43,869 INFO     action_progress: Action Results Passed: 0% (API Deploy Distribute T
10   2014-12-07 01:09:44,897 INFO     action_progress: Action Results Passed: 0% (API Deploy Distribute T
11   2014-12-07 01:09:45,925 INFO     action_progress: Action Results Passed: 0% (API Deploy Distribute T
12   2014-12-07 01:09:46,955 INFO     action_progress: Action Results Passed: 0% (API Deploy Distribute T
13   2014-12-07 01:09:47,982 INFO     action_progress: Action Results Passed: 0% (API Deploy Distribute T
14   2014-12-07 01:09:49,010 INFO     action_progress: Action Results Passed: 0% (API Deploy Distribute T
15   2014-12-07 01:09:50,036 INFO     action_progress: Action Results Passed: 0% (API Deploy Distribute T
16   2014-12-07 01:09:51,065 INFO     action_progress: Action Results Passed: 0% (API Deploy Distribute T
17   2014-12-07 01:09:52,105 INFO     action_progress: Action Results Passed: 0% (API Deploy Distribute T
18   2014-12-07 01:09:53,134 INFO     action_progress: Action Results Passed: 0% (API Deploy Distribute T
19   2014-12-07 01:09:54,274 INFO     action_progress: Action Results Passed: 0% (API Deploy Distribute T
20   2014-12-07 01:09:55,345 INFO     action_progress: Action Results Passed: 100% (API Deploy Distribute
21   2014-12-07 01:09:55,375 INFO     action_progress: Action Results Completed: 0% (API Deploy Distribut
22   2014-12-07 01:09:56,405 INFO     action_progress: Action Results Completed: 0% (API Deploy Distribut
23   2014-12-07 01:09:57,431 INFO     action_progress: Action Results Completed: 0% (API Deploy Distribut
24   2014-12-07 01:09:58,458 INFO     action_progress: Action Results Completed: 0% (API Deploy Distribut
25   2014-12-07 01:09:59,485 INFO     action_progress: Action Results Completed: 0% (API Deploy Distribut
26   2014-12-07 01:10:00,515 INFO     action_progress: Action Results Completed: 0% (API Deploy Distribut
27   2014-12-07 01:10:01,552 INFO     action_progress: Action Results Completed: 0% (API Deploy Distribut
28   2014-12-07 01:10:02,581 INFO     action_progress: Action Results Completed: 100% (API Deploy Distrib
29   2014-12-07 01:10:02,581 INFO     action_progress: API Deploy Distribute Tanium Standard Utilities Re
30       Running Count: 0
31       Success Count: 1
32       Failed Count: 0
33       Unknown Count: 0
34       Finished Count: 1
35       Total Count: 1
36       Finished Count must equal: 1
37
38   Type of response:  <type 'dict'>
39
40   Pretty print of response:
41   {'action_object': <taniumpy.object_types.action.Action object at 0x102286810>,
42    'action_progress_human': 'API Deploy Distribute Tanium Standard Utilities Result Counts:\n\tRunning
43    'action_progress_map': {'Completed.': ['jtanium1.localdomain']},
44    'action_results': <taniumpy.object_types.result_set.ResultSet object at 0x102047a10>,
45    'pre_action_question_results': {'question_object': <taniumpy.object_types.question.Question object
46                                    'question_results': <taniumpy.object_types.result_set.ResultSet obj
47
48   Print of action object:
49   Action, name: 'API Deploy Distribute Tanium Standard Utilities'
50
51   CSV Results of response:
```

```
52  Action Statuses,Computer Name
53  73:Completed.,jtanium1.localdomain
```

Deploy action with params against windows computers

Deploy an action with parameters against only windows computers using human strings.

This will use the Package 'Custom Tagging - Add Tags' and supply two parameters. The second parameter will be ignored because the package in question only requires one parameter.

Example Python Code

```python
1   # Path to lib directory which contains pytan package
2   PYTAN_LIB_PATH = '../lib'
3
4   # connection info for Tanium Server
5   USERNAME = "Tanium User"
6   PASSWORD = "T@n!um"
7   HOST = "172.16.31.128"
8   PORT = "444"
9
10  # Logging conrols
11  LOGLEVEL = 2
12  DEBUGFORMAT = False
13
14  import sys, tempfile
15  sys.path.append(PYTAN_LIB_PATH)
16
17  import pytan
18  handler = pytan.Handler(
19      username=USERNAME,
20      password=PASSWORD,
21      host=HOST,
22      port=PORT,
23      loglevel=LOGLEVEL,
24      debugformat=DEBUGFORMAT,
25  )
26
27  print handler
28
29  # setup the arguments for the handler method
30  kwargs = {}
31  kwargs["run"] = True
32  kwargs["action_filters"] = u'Operating System, that contains Windows'
33  kwargs["package"] = u'Custom Tagging - Add Tags{$1=tag_should_be_added,$2=tag_should_be_ignore}'
34
35  # call the handler with the deploy_action_human method, passing in kwargs for arguments
36  response = handler.deploy_action_human(**kwargs)
37  import pprint, io
38
39  print ""
40  print "Type of response: ", type(response)
41
42  print ""
43  print "Pretty print of response:"
44  print pprint.pformat(response)
```

```
45
46  print ""
47  print "Print of action object: "
48  print response['action_object']
49
50  # create an IO stream to store CSV results to
51  out = io.BytesIO()
52
53  # if results were returned (i.e. get_results=True was one of the kwargs passed in):
54  if response['action_results']:
55      # call the write_csv() method to convert response to CSV and store it in out
56      response['action_results'].write_csv(out, response['action_results'])
57
58      print ""
59      print "CSV Results of response: "
60      print out.getvalue()
```

Output from Python Code

```
1   Handler for Session to 172.16.31.128:444, Authenticated: True, Version: 6.2.314.3258
2   2014-12-07 01:10:02,665 INFO      question_progress: Results 0% (Get Online = "True" from all machine
3   2014-12-07 01:10:07,682 INFO      question_progress: Results 100% (Get Online = "True" from all machi
4   2014-12-07 01:10:07,754 INFO      action_progress: Action Results Passed: 0% (API Deploy Custom Taggi
5   2014-12-07 01:10:08,780 INFO      action_progress: Action Results Passed: 0% (API Deploy Custom Taggi
6   2014-12-07 01:10:09,808 INFO      action_progress: Action Results Passed: 0% (API Deploy Custom Taggi
7   2014-12-07 01:10:10,837 INFO      action_progress: Action Results Passed: 0% (API Deploy Custom Taggi
8   2014-12-07 01:10:11,867 INFO      action_progress: Action Results Passed: 0% (API Deploy Custom Taggi
9   2014-12-07 01:10:12,893 INFO      action_progress: Action Results Passed: 0% (API Deploy Custom Taggi
10  2014-12-07 01:10:13,924 INFO      action_progress: Action Results Passed: 0% (API Deploy Custom Taggi
11  2014-12-07 01:10:14,953 INFO      action_progress: Action Results Passed: 0% (API Deploy Custom Taggi
12  2014-12-07 01:10:15,981 INFO      action_progress: Action Results Passed: 0% (API Deploy Custom Taggi
13  2014-12-07 01:10:17,012 INFO      action_progress: Action Results Passed: 0% (API Deploy Custom Taggi
14  2014-12-07 01:10:18,039 INFO      action_progress: Action Results Passed: 0% (API Deploy Custom Taggi
15  2014-12-07 01:10:19,069 INFO      action_progress: Action Results Passed: 0% (API Deploy Custom Taggi
16  2014-12-07 01:10:20,097 INFO      action_progress: Action Results Passed: 0% (API Deploy Custom Taggi
17  2014-12-07 01:10:21,124 INFO      action_progress: Action Results Passed: 0% (API Deploy Custom Taggi
18  2014-12-07 01:10:22,155 INFO      action_progress: Action Results Passed: 0% (API Deploy Custom Taggi
19  2014-12-07 01:10:23,182 INFO      action_progress: Action Results Passed: 0% (API Deploy Custom Taggi
20  2014-12-07 01:10:24,212 INFO      action_progress: Action Results Passed: 0% (API Deploy Custom Taggi
21  2014-12-07 01:10:25,237 INFO      action_progress: Action Results Passed: 0% (API Deploy Custom Taggi
22  2014-12-07 01:10:26,263 INFO      action_progress: Action Results Passed: 0% (API Deploy Custom Taggi
23  2014-12-07 01:10:27,288 INFO      action_progress: Action Results Passed: 0% (API Deploy Custom Taggi
24  2014-12-07 01:10:28,319 INFO      action_progress: Action Results Passed: 0% (API Deploy Custom Taggi
25  2014-12-07 01:10:29,347 INFO      action_progress: Action Results Passed: 0% (API Deploy Custom Taggi
26  2014-12-07 01:10:30,375 INFO      action_progress: Action Results Passed: 0% (API Deploy Custom Taggi
27  2014-12-07 01:10:31,402 INFO      action_progress: Action Results Passed: 0% (API Deploy Custom Taggi
28  2014-12-07 01:10:32,430 INFO      action_progress: Action Results Passed: 0% (API Deploy Custom Taggi
29  2014-12-07 01:10:33,461 INFO      action_progress: Action Results Passed: 0% (API Deploy Custom Taggi
30  2014-12-07 01:10:34,490 INFO      action_progress: Action Results Passed: 0% (API Deploy Custom Taggi
31  2014-12-07 01:10:35,520 INFO      action_progress: Action Results Passed: 0% (API Deploy Custom Taggi
32  2014-12-07 01:10:36,547 INFO      action_progress: Action Results Passed: 0% (API Deploy Custom Taggi
33  2014-12-07 01:10:37,574 INFO      action_progress: Action Results Passed: 0% (API Deploy Custom Taggi
34  2014-12-07 01:10:38,604 INFO      action_progress: Action Results Passed: 0% (API Deploy Custom Taggi
35  2014-12-07 01:10:39,633 INFO      action_progress: Action Results Passed: 0% (API Deploy Custom Taggi
36  2014-12-07 01:10:40,662 INFO      action_progress: Action Results Passed: 0% (API Deploy Custom Taggi
37  2014-12-07 01:10:41,691 INFO      action_progress: Action Results Passed: 0% (API Deploy Custom Taggi
38  2014-12-07 01:10:42,720 INFO      action_progress: Action Results Passed: 0% (API Deploy Custom Taggi
```

```
39   2014-12-07 01:10:43,752 INFO        action_progress: Action Results Passed: 0% (API Deploy Custom Taggi
40   2014-12-07 01:10:44,786 INFO        action_progress: Action Results Passed: 0% (API Deploy Custom Taggi
41   2014-12-07 01:10:45,811 INFO        action_progress: Action Results Passed: 0% (API Deploy Custom Taggi
42   2014-12-07 01:10:46,841 INFO        action_progress: Action Results Passed: 0% (API Deploy Custom Taggi
43   2014-12-07 01:10:47,872 INFO        action_progress: Action Results Passed: 0% (API Deploy Custom Taggi
44   2014-12-07 01:10:48,902 INFO        action_progress: Action Results Passed: 0% (API Deploy Custom Taggi
45   2014-12-07 01:10:49,932 INFO        action_progress: Action Results Passed: 0% (API Deploy Custom Taggi
46   2014-12-07 01:10:50,961 INFO        action_progress: Action Results Passed: 0% (API Deploy Custom Taggi
47   2014-12-07 01:10:51,992 INFO        action_progress: Action Results Passed: 0% (API Deploy Custom Taggi
48   2014-12-07 01:10:53,021 INFO        action_progress: Action Results Passed: 0% (API Deploy Custom Taggi
49   2014-12-07 01:10:54,049 INFO        action_progress: Action Results Passed: 0% (API Deploy Custom Taggi
50   2014-12-07 01:10:55,080 INFO        action_progress: Action Results Passed: 0% (API Deploy Custom Taggi
51   2014-12-07 01:10:56,111 INFO        action_progress: Action Results Passed: 0% (API Deploy Custom Taggi
52   2014-12-07 01:10:57,137 INFO        action_progress: Action Results Passed: 0% (API Deploy Custom Taggi
53   2014-12-07 01:10:58,169 INFO        action_progress: Action Results Passed: 0% (API Deploy Custom Taggi
54   2014-12-07 01:10:59,198 INFO        action_progress: Action Results Passed: 0% (API Deploy Custom Taggi
55   2014-12-07 01:11:00,226 INFO        action_progress: Action Results Passed: 0% (API Deploy Custom Taggi
56   2014-12-07 01:11:01,254 INFO        action_progress: Action Results Passed: 0% (API Deploy Custom Taggi
57   2014-12-07 01:11:02,285 INFO        action_progress: Action Results Passed: 0% (API Deploy Custom Taggi
58   2014-12-07 01:11:03,314 INFO        action_progress: Action Results Passed: 0% (API Deploy Custom Taggi
59   2014-12-07 01:11:04,345 INFO        action_progress: Action Results Passed: 0% (API Deploy Custom Taggi
60   2014-12-07 01:11:05,374 INFO        action_progress: Action Results Passed: 0% (API Deploy Custom Taggi
61   2014-12-07 01:11:06,406 INFO        action_progress: Action Results Passed: 0% (API Deploy Custom Taggi
62   2014-12-07 01:11:07,432 INFO        action_progress: Action Results Passed: 0% (API Deploy Custom Taggi
63   2014-12-07 01:11:08,461 INFO        action_progress: Action Results Passed: 0% (API Deploy Custom Taggi
64   2014-12-07 01:11:09,492 INFO        action_progress: Action Results Passed: 0% (API Deploy Custom Taggi
65   2014-12-07 01:11:10,523 INFO        action_progress: Action Results Passed: 0% (API Deploy Custom Taggi
66   2014-12-07 01:11:11,552 INFO        action_progress: Action Results Passed: 0% (API Deploy Custom Taggi
67   2014-12-07 01:11:12,580 INFO        action_progress: Action Results Passed: 0% (API Deploy Custom Taggi
68   2014-12-07 01:11:13,610 INFO        action_progress: Action Results Passed: 0% (API Deploy Custom Taggi
69   2014-12-07 01:11:14,641 INFO        action_progress: Action Results Passed: 0% (API Deploy Custom Taggi
70   2014-12-07 01:11:15,672 INFO        action_progress: Action Results Passed: 0% (API Deploy Custom Taggi
71   2014-12-07 01:11:16,701 INFO        action_progress: Action Results Passed: 0% (API Deploy Custom Taggi
72   2014-12-07 01:11:17,730 INFO        action_progress: Action Results Passed: 0% (API Deploy Custom Taggi
73   2014-12-07 01:11:18,762 INFO        action_progress: Action Results Passed: 0% (API Deploy Custom Taggi
74   2014-12-07 01:11:19,790 INFO        action_progress: Action Results Passed: 0% (API Deploy Custom Taggi
75   2014-12-07 01:11:20,818 INFO        action_progress: Action Results Passed: 0% (API Deploy Custom Taggi
76   2014-12-07 01:11:21,850 INFO        action_progress: Action Results Passed: 0% (API Deploy Custom Taggi
77   2014-12-07 01:11:22,875 INFO        action_progress: Action Results Passed: 0% (API Deploy Custom Taggi
78   2014-12-07 01:11:23,905 INFO        action_progress: Action Results Passed: 0% (API Deploy Custom Taggi
79   2014-12-07 01:11:24,936 INFO        action_progress: Action Results Passed: 0% (API Deploy Custom Taggi
80   2014-12-07 01:11:25,965 INFO        action_progress: Action Results Passed: 0% (API Deploy Custom Taggi
81   2014-12-07 01:11:26,992 INFO        action_progress: Action Results Passed: 0% (API Deploy Custom Taggi
82   2014-12-07 01:11:28,022 INFO        action_progress: Action Results Passed: 0% (API Deploy Custom Taggi
83   2014-12-07 01:11:29,053 INFO        action_progress: Action Results Passed: 0% (API Deploy Custom Taggi
84   2014-12-07 01:11:30,079 INFO        action_progress: Action Results Passed: 0% (API Deploy Custom Taggi
85   2014-12-07 01:11:31,111 INFO        action_progress: Action Results Passed: 0% (API Deploy Custom Taggi
86   2014-12-07 01:11:32,144 INFO        action_progress: Action Results Passed: 0% (API Deploy Custom Taggi
87   2014-12-07 01:11:33,174 INFO        action_progress: Action Results Passed: 0% (API Deploy Custom Taggi
88   2014-12-07 01:11:34,204 INFO        action_progress: Action Results Passed: 0% (API Deploy Custom Taggi
89   2014-12-07 01:11:35,233 INFO        action_progress: Action Results Passed: 0% (API Deploy Custom Taggi
90   2014-12-07 01:11:36,261 INFO        action_progress: Action Results Passed: 0% (API Deploy Custom Taggi
91   2014-12-07 01:11:37,290 INFO        action_progress: Action Results Passed: 0% (API Deploy Custom Taggi
92   2014-12-07 01:11:38,317 INFO        action_progress: Action Results Passed: 0% (API Deploy Custom Taggi
93   2014-12-07 01:11:39,347 INFO        action_progress: Action Results Passed: 0% (API Deploy Custom Taggi
94   2014-12-07 01:11:40,375 INFO        action_progress: Action Results Passed: 0% (API Deploy Custom Taggi
95   2014-12-07 01:11:41,404 INFO        action_progress: Action Results Passed: 0% (API Deploy Custom Taggi
96   2014-12-07 01:11:42,433 INFO        action_progress: Action Results Passed: 0% (API Deploy Custom Taggi
```

```
97   2014-12-07 01:11:43,464 INFO      action_progress: Action Results Passed: 0% (API Deploy Custom Taggi
98   2014-12-07 01:11:44,490 INFO      action_progress: Action Results Passed: 0% (API Deploy Custom Taggi
99   2014-12-07 01:11:45,520 INFO      action_progress: Action Results Passed: 0% (API Deploy Custom Taggi
100  2014-12-07 01:11:46,552 INFO      action_progress: Action Results Passed: 0% (API Deploy Custom Taggi
101  2014-12-07 01:11:47,581 INFO      action_progress: Action Results Passed: 0% (API Deploy Custom Taggi
102  2014-12-07 01:11:48,608 INFO      action_progress: Action Results Passed: 0% (API Deploy Custom Taggi
103  2014-12-07 01:11:49,635 INFO      action_progress: Action Results Passed: 0% (API Deploy Custom Taggi
104  2014-12-07 01:11:50,667 INFO      action_progress: Action Results Passed: 100% (API Deploy Custom Tag
105  2014-12-07 01:11:50,692 INFO      action_progress: Action Results Completed: 100% (API Deploy Custom
106  2014-12-07 01:11:50,692 INFO      action_progress: API Deploy Custom Tagging - Add Tags Result Counts
107       Running Count: 0
108       Success Count: 1
109       Failed Count: 0
110       Unknown Count: 0
111       Finished Count: 1
112       Total Count: 1
113       Finished Count must equal: 1
114
115  Type of response:  <type 'dict'>
116
117  Pretty print of response:
118  {'action_object': <taniumpy.object_types.action.Action object at 0x1022fa050>,
119   'action_progress_human': 'API Deploy Custom Tagging - Add Tags Result Counts:\n\tRunning Count: 0\n
120   'action_progress_map': {'Completed.': ['jtanium1.localdomain']},
121   'action_results': <taniumpy.object_types.result_set.ResultSet object at 0x1022ad310>,
122   'pre_action_question_results': {'question_object': <taniumpy.object_types.question.Question object
123                                   'question_results': <taniumpy.object_types.result_set.ResultSet obj
124
125  Print of action object:
126  Action, name: 'API Deploy Custom Tagging - Add Tags'
127
128  CSV Results of response:
129  Action Statuses,Computer Name
130  74:Completed.,jtanium1.localdomain
```

pytan API Invalid Deploy Action Examples

Invalid deploy action missing parameters

Deploy an action using a package that requires parameters but do not supply any parameters.

Example Python Code

```python
1   # Path to lib directory which contains pytan package
2   PYTAN_LIB_PATH = '../lib'
3
4   # connection info for Tanium Server
5   USERNAME = "Tanium User"
6   PASSWORD = "T@n!um"
7   HOST = "172.16.31.128"
8   PORT = "444"
9
10  # Logging conrols
11  LOGLEVEL = 2
12  DEBUGFORMAT = False
```

```
13
14   import sys, tempfile
15   sys.path.append(PYTAN_LIB_PATH)
16
17   import pytan
18   handler = pytan.Handler(
19       username=USERNAME,
20       password=PASSWORD,
21       host=HOST,
22       port=PORT,
23       loglevel=LOGLEVEL,
24       debugformat=DEBUGFORMAT,
25   )
26
27   print handler
28
29   # setup the arguments for the handler method
30   kwargs = {}
31   kwargs['report_dir'] = tempfile.gettempdir()
32   kwargs["run"] = True
33   kwargs["package"] = u'Custom Tagging - Add Tags'
34
35
36   # call the handler with the deploy_action_human method, passing in kwargs for arguments
37   # this should throw an exception: pytan.utils.HandlerError
38   import traceback
39   try:
40       handler.deploy_action_human(**kwargs)
41   except Exception as e:
42       traceback.print_exc(file=sys.stdout)
```

Output from Python Code

```
1    Handler for Session to 172.16.31.128:444, Authenticated: True, Version: 6.2.314.3258
2    2014-12-07 01:11:50,769 INFO     question_progress: Results 0% (Get Online = "True" from all machine
3    2014-12-07 01:11:55,787 INFO     question_progress: Results 50% (Get Online = "True" from all machin
4    2014-12-07 01:12:00,804 INFO     question_progress: Results 100% (Get Online = "True" from all machi
5    Traceback (most recent call last):
6      File "<string>", line 40, in <module>
7      File "/Users/jolsen/gh/pytan/lib/pytan/handler.py", line 1109, in deploy_action_human
8        **kwargs
9      File "/Users/jolsen/gh/pytan/lib/pytan/handler.py", line 982, in deploy_action
10       empty_ok=False,
11     File "/Users/jolsen/gh/pytan/lib/pytan/utils.py", line 2071, in build_param_objlist
12       raise HandlerError(err(obj_name, p_key, jsonify(obj_param)))
13   HandlerError: PackageSpec, name: 'Custom Tagging - Add Tags' parameter key '$1' requires a value, pa
14   {
15     "defaultValue": "",
16     "helpString": "Enter tags space-delimited.",
17     "key": "$1",
18     "label": "Add tags (space-delimited)",
19     "maxChars": 0,
20     "model": "com.tanium.components.parameters::TextInputParameter",
21     "parameterType": "com.tanium.components.parameters::TextInputParameter",
22     "promptText": "e.g. PCI DMZ Decomm",
23     "restrict": null,
24     "validationExpressions": [
```

```
25        {
26          "expression": "\\S",
27          "flags": "",
28          "helpString": "You must enter a value",
29          "model": "com.tanium.models::ValidationExpression",
30          "parameterType": "com.tanium.models::ValidationExpression"
31        }
32      ],
33      "value": ""
34    }
```

Invalid deploy action package

Deploy an action using a non-existing package.

Example Python Code

```python
1   # Path to lib directory which contains pytan package
2   PYTAN_LIB_PATH = '../lib'
3
4   # connection info for Tanium Server
5   USERNAME = "Tanium User"
6   PASSWORD = "T@n!um"
7   HOST = "172.16.31.128"
8   PORT = "444"
9
10  # Logging conrols
11  LOGLEVEL = 2
12  DEBUGFORMAT = False
13
14  import sys, tempfile
15  sys.path.append(PYTAN_LIB_PATH)
16
17  import pytan
18  handler = pytan.Handler(
19      username=USERNAME,
20      password=PASSWORD,
21      host=HOST,
22      port=PORT,
23      loglevel=LOGLEVEL,
24      debugformat=DEBUGFORMAT,
25  )
26
27  print handler
28
29  # setup the arguments for the handler method
30  kwargs = {}
31  kwargs['report_dir'] = tempfile.gettempdir()
32  kwargs["run"] = True
33  kwargs["package"] = u'Invalid Package'
34
35
36  # call the handler with the deploy_action_human method, passing in kwargs for arguments
37  # this should throw an exception: pytan.utils.HandlerError
38  import traceback
```

```
39   try:
40       handler.deploy_action_human(**kwargs)
41   except Exception as e:
42       traceback.print_exc(file=sys.stdout)
```

Output from Python Code

```
1   Handler for Session to 172.16.31.128:444, Authenticated: True, Version: 6.2.314.3258
2   Traceback (most recent call last):
3     File "<string>", line 40, in <module>
4     File "/Users/jolsen/gh/pytan/lib/pytan/handler.py", line 1109, in deploy_action_human
5       **kwargs
6     File "/Users/jolsen/gh/pytan/lib/pytan/handler.py", line 919, in deploy_action
7       package_def = self._get_package_def(package_def)
8     File "/Users/jolsen/gh/pytan/lib/pytan/handler.py", line 1733, in _get_package_def
9       d['package_obj'] = self.get('package', **def_search)[0]
10    File "/Users/jolsen/gh/pytan/lib/pytan/handler.py", line 1509, in get
11      return self._get_single(obj_map, **kwargs)
12    File "/Users/jolsen/gh/pytan/lib/pytan/handler.py", line 1693, in _get_single
13      for x in self._single_find(obj_map, k, v, **kwargs):
14    File "/Users/jolsen/gh/pytan/lib/pytan/handler.py", line 1703, in _single_find
15      obj_ret = self._find(api_obj_single, **kwargs)
16    File "/Users/jolsen/gh/pytan/lib/pytan/handler.py", line 1631, in _find
17      raise HandlerError(err(search_str))
18  HandlerError: No results found searching for PackageSpec, name: u'Invalid Package'!!
```

Invalid deploy action empty package

Deploy an action using an empty package string.

Example Python Code

```
1   # Path to lib directory which contains pytan package
2   PYTAN_LIB_PATH = '../lib'
3
4   # connection info for Tanium Server
5   USERNAME = "Tanium User"
6   PASSWORD = "T@n!um"
7   HOST = "172.16.31.128"
8   PORT = "444"
9
10  # Logging conrols
11  LOGLEVEL = 2
12  DEBUGFORMAT = False
13
14  import sys, tempfile
15  sys.path.append(PYTAN_LIB_PATH)
16
17  import pytan
18  handler = pytan.Handler(
19      username=USERNAME,
20      password=PASSWORD,
21      host=HOST,
22      port=PORT,
```

```
23        loglevel=LOGLEVEL,
24        debugformat=DEBUGFORMAT,
25   )
26
27   print handler
28
29   # setup the arguments for the handler method
30   kwargs = {}
31   kwargs['report_dir'] = tempfile.gettempdir()
32   kwargs["run"] = True
33   kwargs["package"] = u''
34
35
36   # call the handler with the deploy_action_human method, passing in kwargs for arguments
37   # this should throw an exception: pytan.utils.HumanParserError
38   import traceback
39   try:
40        handler.deploy_action_human(**kwargs)
41   except Exception as e:
42        traceback.print_exc(file=sys.stdout)
```

Output from Python Code

```
1   Handler for Session to 172.16.31.128:444, Authenticated: True, Version: 6.2.314.3258
2   Traceback (most recent call last):
3     File "<string>", line 40, in <module>
4     File "/Users/jolsen/gh/pytan/lib/pytan/handler.py", line 1103, in deploy_action_human
5       package_def = utils.dehumanize_package(package)
6     File "/Users/jolsen/gh/pytan/lib/pytan/utils.py", line 1265, in dehumanize_package
7       raise HumanParserError(err(package))
8   HumanParserError: u'' must be a string supplied as 'package'
```

Invalid deploy action run false

Deploy an action without run=True, which will only run the pre-deploy action question that matches action_filters, export the results to a file, and raise a RunFalse exception

Example Python Code

```
1   # Path to lib directory which contains pytan package
2   PYTAN_LIB_PATH = '../lib'
3
4   # connection info for Tanium Server
5   USERNAME = "Tanium User"
6   PASSWORD = "T@n!um"
7   HOST = "172.16.31.128"
8   PORT = "444"
9
10  # Logging conrols
11  LOGLEVEL = 2
12  DEBUGFORMAT = False
13
14  import sys, tempfile
15  sys.path.append(PYTAN_LIB_PATH)
```

```
16
17  import pytan
18  handler = pytan.Handler(
19      username=USERNAME,
20      password=PASSWORD,
21      host=HOST,
22      port=PORT,
23      loglevel=LOGLEVEL,
24      debugformat=DEBUGFORMAT,
25  )
26
27  print handler
28
29  # setup the arguments for the handler method
30  kwargs = {}
31  kwargs['report_dir'] = tempfile.gettempdir()
32  kwargs["package"] = u'Distribute Tanium Standard Utilities'
33
34
35  # call the handler with the deploy_action_human method, passing in kwargs for arguments
36  # this should throw an exception: pytan.utils.RunFalse
37  import traceback
38  try:
39      handler.deploy_action_human(**kwargs)
40  except Exception as e:
41      traceback.print_exc(file=sys.stdout)
```

Output from Python Code

```
1   Handler for Session to 172.16.31.128:444, Authenticated: True, Version: 6.2.314.3258
2   2014-12-07 01:12:00,928 INFO     question_progress: Results 0% (Get Computer Name and Online = "True
3   2014-12-07 01:12:05,947 INFO     question_progress: Results 50% (Get Computer Name and Online = "Tru
4   2014-12-07 01:12:10,968 INFO     question_progress: Results 100% (Get Computer Name and Online = "Tr
5   2014-12-07 01:12:10,983 INFO     handler: Report file '/var/folders/dk/vjr1r_c53yx6k6gzp2bbt_c40000g
6   Traceback (most recent call last):
7     File "<string>", line 39, in <module>
8     File "/Users/jolsen/gh/pytan/lib/pytan/handler.py", line 1109, in deploy_action_human
9       **kwargs
10    File "/Users/jolsen/gh/pytan/lib/pytan/handler.py", line 959, in deploy_action
11      raise RunFalse(m(report_path, len(result)))
12  RunFalse: 'Run' is not True!!
13  View and verify the contents of /var/folders/dk/vjr1r_c53yx6k6gzp2bbt_c40000gn/T/VERIFY_BEFORE_DEPLO
14  Re-run this deploy action with run=True after verifying
```

pytan API Valid Create Object Examples

Create user

Create a user called API Test User

Example Python Code

```
1   # Path to lib directory which contains pytan package
2   PYTAN_LIB_PATH = '../lib'
```

```
3
4    # connection info for Tanium Server
5    USERNAME = "Tanium User"
6    PASSWORD = "T@n!um"
7    HOST = "172.16.31.128"
8    PORT = "444"
9
10   # Logging conrols
11   LOGLEVEL = 2
12   DEBUGFORMAT = False
13
14   import sys, tempfile
15   sys.path.append(PYTAN_LIB_PATH)
16
17   import pytan
18   handler = pytan.Handler(
19       username=USERNAME,
20       password=PASSWORD,
21       host=HOST,
22       port=PORT,
23       loglevel=LOGLEVEL,
24       debugformat=DEBUGFORMAT,
25   )
26
27   print handler
28
29   # setup the arguments for the delete method (to remove the package in case it exists)
30   delete_kwargs = {}
31   delete_kwargs["objtype"] = 'user'
32   delete_kwargs["name"] = 'API Test User'
33
34
35   # setup the arguments for the handler method
36   kwargs = {}
37   kwargs["username"] = u'API Test User'
38   kwargs["rolename"] = u'Administrator'
39   kwargs["properties"] = [[u'property1', u'value1']]
40
41   # delete the object in case it already exists
42   try:
43       handler.delete(**delete_kwargs)
44   except Exception as e:
45       print e
46
47   # call the handler with the create_user method, passing in kwargs for arguments
48   response = handler.create_user(**kwargs)
49
50
51   print ""
52   print "Type of response: ", type(response)
53
54   print ""
55   print "print of response:"
56   print response
57
58   print ""
59   print "print the object returned in JSON format:"
60   print response.to_json(response)
```

```
61
62   # delete the object, we are done with it now
63   try:
64       handler.delete(**delete_kwargs)
65   except Exception as e:
66       print e
```

Output from Python Code

```
1    Handler for Session to 172.16.31.128:444, Authenticated: True, Version: 6.2.314.3258
2    No results found searching for user with {'name': 'API Test User'}!!
3    2014-12-07 01:12:11,021 INFO     handler: New user 'API Test User' created with ID 16, roles: ['Admi
4
5    Type of response:  <class 'taniumpy.object_types.user.User'>
6
7    print of response:
8    User, name: 'API Test User'
9
10   print the object returned in JSON format:
11   {
12     "_type": "user",
13     "deleted_flag": 0,
14     "group_id": 0,
15     "id": 16,
16     "last_login": "2001-01-01T00:00:00",
17     "metadata": {
18       "_type": "metadata",
19       "item": [
20         {
21           "_type": "item",
22           "admin_flag": 0,
23           "name": "TConsole.User.Property.property1",
24           "value": "value1"
25         }
26       ]
27     },
28     "name": "API Test User",
29     "permissions": {
30       "_type": "permissions",
31       "permission": "admin"
32     },
33     "roles": {
34       "_type": "roles",
35       "role": [
36         {
37           "_type": "role",
38           "description": "Administrators can perform all functions in the system, including creating c
39           "id": 1,
40           "name": "Administrator",
41           "permissions": {
42             "_type": "permissions",
43             "permission": "admin"
44           }
45         }
46       ]
47     }
48   }
```

```
49    2014-12-07 01:12:11,039 INFO     handler: Deleted "User, name: 'API Test User'"
```

Create package

Create a package called package49

Example Python Code

```
1    # Path to lib directory which contains pytan package
2    PYTAN_LIB_PATH = '../lib'
3
4    # connection info for Tanium Server
5    USERNAME = "Tanium User"
6    PASSWORD = "T@n!um"
7    HOST = "172.16.31.128"
8    PORT = "444"
9
10   # Logging conrols
11   LOGLEVEL = 2
12   DEBUGFORMAT = False
13
14   import sys, tempfile
15   sys.path.append(PYTAN_LIB_PATH)
16
17   import pytan
18   handler = pytan.Handler(
19       username=USERNAME,
20       password=PASSWORD,
21       host=HOST,
22       port=PORT,
23       loglevel=LOGLEVEL,
24       debugformat=DEBUGFORMAT,
25   )
26
27   print handler
28
29   # setup the arguments for the delete method (to remove the package in case it exists)
30   delete_kwargs = {}
31   delete_kwargs["objtype"] = 'package'
32   delete_kwargs["name"] = 'package49'
33
34
35   # setup the arguments for the handler method
36   kwargs = {}
37   kwargs["expire_seconds"] = 1500
38   kwargs["display_name"] = u'package49 API test'
39   kwargs["name"] = u'package49'
40   kwargs["parameters_json_file"] = u'../doc/example_of_all_package_parameters.json'
41   kwargs["verify_expire_seconds"] = 3600
42   kwargs["command"] = u'package49 $1 $2 $3 $4 $5 $6 $7 $8'
43   kwargs["file_urls"] = [u'3600::testing.vbs||https://content.tanium.com/files/initialcontent/bundles/
44   kwargs["verify_filter_options"] = [u'and']
45   kwargs["verify_filters"] = [u'Custom Tags, that contains tag']
46   kwargs["command_timeout_seconds"] = 9999
47
```

```
48  # delete the object in case it already exists
49  try:
50      handler.delete(**delete_kwargs)
51  except Exception as e:
52      print e
53
54  # call the handler with the create_package method, passing in kwargs for arguments
55  response = handler.create_package(**kwargs)
56
57
58  print ""
59  print "Type of response: ", type(response)
60
61  print ""
62  print "print of response:"
63  print response
64
65  print ""
66  print "print the object returned in JSON format:"
67  print response.to_json(response)
68
69  # delete the object, we are done with it now
70  try:
71      handler.delete(**delete_kwargs)
72  except Exception as e:
73      print e
```

Output from Python Code

```
1   Handler for Session to 172.16.31.128:444, Authenticated: True, Version: 6.2.314.3258
2   No results found searching for PackageSpec, name: 'package49'!!
3   2014-12-07 01:12:11,095 INFO     handler: New package 'package49' created with ID 110, command: 'pac
4
5   Type of response:  <class 'taniumpy.object_types.package_spec.PackageSpec'>
6
7   print of response:
8   PackageSpec, name: 'package49'
9
10  print the object returned in JSON format:
11  {
12    "_type": "package_spec",
13    "available_time": "1900-01-01T00:00:00",
14    "command": "package49 $1 $2 $3 $4 $5 $6 $7 $8",
15    "command_timeout": 9999,
16    "creation_time": "2014-12-07T06:12:11",
17    "deleted_flag": 0,
18    "display_name": "package49 API test",
19    "expire_seconds": 1500,
20    "files": {
21      "_type": "package_files",
22      "file": [
23        {
24          "_type": "file",
25          "bytes_downloaded": 0,
26          "bytes_total": 0,
27          "cache_status": "UNCACHED",
28          "download_seconds": 3600,
```

```
29          "id": 122,
30          "name": "testing.vbs",
31          "size": 0,
32          "source": "https://content.tanium.com/files/initialcontent/bundles/2014-10-01_11-32-15-7844/
33          "status": 0
34        }
35      ]
36    },
37    "hidden_flag": 0,
38    "id": 110,
39    "last_modified_by": "Tanium User",
40    "last_update": "2014-12-07T06:12:11",
41    "modification_time": "2014-12-07T06:12:11",
42    "name": "package49",
43    "parameter_definition": "{\"parameterType\": \"com.tanium.components.parameters::ParametersArray\"
44    "source_id": 0,
45    "verify_group_id": 522
46  }
47  2014-12-07 01:12:11,110 INFO     handler: Deleted 'PackageSpec, id: 110'
```

Create group

Create a group called All Windows Computers API Test

Example Python Code

```python
1   # Path to lib directory which contains pytan package
2   PYTAN_LIB_PATH = '../lib'
3
4   # connection info for Tanium Server
5   USERNAME = "Tanium User"
6   PASSWORD = "T@n!um"
7   HOST = "172.16.31.128"
8   PORT = "444"
9
10  # Logging conrols
11  LOGLEVEL = 2
12  DEBUGFORMAT = False
13
14  import sys, tempfile
15  sys.path.append(PYTAN_LIB_PATH)
16
17  import pytan
18  handler = pytan.Handler(
19      username=USERNAME,
20      password=PASSWORD,
21      host=HOST,
22      port=PORT,
23      loglevel=LOGLEVEL,
24      debugformat=DEBUGFORMAT,
25  )
26
27  print handler
28
29  # setup the arguments for the delete method (to remove the package in case it exists)
```

```
30   delete_kwargs = {}
31   delete_kwargs["objtype"] = 'group'
32   delete_kwargs["name"] = 'All Windows Computers API Test'
33
34
35   # setup the arguments for the handler method
36   kwargs = {}
37   kwargs["groupname"] = u'All Windows Computers API Test'
38   kwargs["filters"] = [u'Operating System, that contains WIndows']
39   kwargs["filter_options"] = [u'and']
40
41   # delete the object in case it already exists
42   try:
43       handler.delete(**delete_kwargs)
44   except Exception as e:
45       print e
46
47   # call the handler with the create_group method, passing in kwargs for arguments
48   response = handler.create_group(**kwargs)
49
50
51   print ""
52   print "Type of response: ", type(response)
53
54   print ""
55   print "print of response:"
56   print response
57
58   print ""
59   print "print the object returned in JSON format:"
60   print response.to_json(response)
61
62   # delete the object, we are done with it now
63   try:
64       handler.delete(**delete_kwargs)
65   except Exception as e:
66       print e
```

Output from Python Code

```
1    Handler for Session to 172.16.31.128:444, Authenticated: True, Version: 6.2.314.3258
2    No results found searching for Group, name: 'All Windows Computers API Test'!!
3    2014-12-07 01:12:11,156 INFO     handler: New group 'All Windows Computers API Test' created with ID
4
5    Type of response:  <class 'taniumpy.object_types.group.Group'>
6
7    print of response:
8    Group, name: 'All Windows Computers API Test'
9
10   print the object returned in JSON format:
11   {
12     "_type": "group",
13     "and_flag": 1,
14     "deleted_flag": 1,
15     "filters": {
16       "_type": "filters",
17       "filter": [
```

```
18          {
19            "_type": "filter",
20            "all_times_flag": 0,
21            "all_values_flag": 0,
22            "delimiter_index": 0,
23            "ignore_case_flag": 1,
24            "max_age_seconds": 0,
25            "not_flag": 0,
26            "operator": "RegexMatch",
27            "sensor": {
28              "_type": "sensor",
29              "hash": 45421433
30            },
31            "substring_flag": 0,
32            "substring_length": 0,
33            "substring_start": 0,
34            "utf8_flag": 0,
35            "value": ".*WIndows.*",
36            "value_type": "String"
37          }
38        ]
39      },
40      "id": 523,
41      "name": "All Windows Computers API Test",
42      "not_flag": 0,
43      "sub_groups": {
44        "_type": "groups",
45        "group": []
46      },
47      "text": " Operating System contains \"WIndows\"",
48      "type": 0
49  }
50  2014-12-07 01:12:11,173 INFO     handler: Deleted 'Group, id: 523'
```

Create whitelisted url

Create a whitelisted url

Example Python Code

```python
1   # Path to lib directory which contains pytan package
2   PYTAN_LIB_PATH = '../lib'
3
4   # connection info for Tanium Server
5   USERNAME = "Tanium User"
6   PASSWORD = "T@n!um"
7   HOST = "172.16.31.128"
8   PORT = "444"
9
10  # Logging conrols
11  LOGLEVEL = 2
12  DEBUGFORMAT = False
13
14  import sys, tempfile
15  sys.path.append(PYTAN_LIB_PATH)
```

```
16
17  import pytan
18  handler = pytan.Handler(
19      username=USERNAME,
20      password=PASSWORD,
21      host=HOST,
22      port=PORT,
23      loglevel=LOGLEVEL,
24      debugformat=DEBUGFORMAT,
25  )
26
27  print handler
28
29  # setup the arguments for the delete method (to remove the package in case it exists)
30  delete_kwargs = {}
31  delete_kwargs["objtype"] = 'whitelisted_url'
32  delete_kwargs["url_regex"] = 'regex:http://test.com/.*API_Test.*URL'
33
34
35  # setup the arguments for the handler method
36  kwargs = {}
37  kwargs["url"] = u'http://test.com/.*API_Test.*URL'
38  kwargs["regex"] = True
39  kwargs["properties"] = [[u'property1', u'value1']]
40  kwargs["download_seconds"] = 3600
41
42  # delete the object in case it already exists
43  try:
44      handler.delete(**delete_kwargs)
45  except Exception as e:
46      print e
47
48  # call the handler with the create_whitelisted_url method, passing in kwargs for arguments
49  response = handler.create_whitelisted_url(**kwargs)
50
51
52  print ""
53  print "Type of response: ", type(response)
54
55  print ""
56  print "print of response:"
57  print response
58
59  print ""
60  print "print the object returned in JSON format:"
61  print response.to_json(response)
62
63  # delete the object, we are done with it now
64  try:
65      handler.delete(**delete_kwargs)
66  except Exception as e:
67      print e
```

Output from Python Code

```
1  Handler for Session to 172.16.31.128:444, Authenticated: True, Version: 6.2.314.3258
2  No results found searching for whitelisted_url with {'url_regex': 'regex:http://test.com/.*API_Test.
```

```
3    2014-12-07 01:12:11,203 INFO     handler: New Whitelisted URL 'regex:http://test.com/.*API_Test.*URL
4
5    Type of response:  <class 'taniumpy.object_types.white_listed_url.WhiteListedUrl'>
6
7    print of response:
8    WhiteListedUrl, id: 17
9
10   print the object returned in JSON format:
11   {
12     "_type": "white_listed_url",
13     "download_seconds": 3600,
14     "id": 17,
15     "metadata": {
16       "_type": "metadata",
17       "item": [
18         {
19           "_type": "item",
20           "admin_flag": 0,
21           "name": "TConsole.WhitelistedURL.property1",
22           "value": "value1"
23         }
24       ]
25     },
26     "url_regex": "regex:http://test.com/.*API_Test.*URL"
27   }
28   2014-12-07 01:12:11,216 INFO     handler: Deleted 'WhiteListedUrl, id: 17'
```

pytan API Invalid Create Object Examples

Invalid create sensor

Create a sensor (Unsupported!)

Example Python Code

```python
1    # Path to lib directory which contains pytan package
2    PYTAN_LIB_PATH = '../lib'
3
4    # connection info for Tanium Server
5    USERNAME = "Tanium User"
6    PASSWORD = "T@n!um"
7    HOST = "172.16.31.128"
8    PORT = "444"
9
10   # Logging conrols
11   LOGLEVEL = 2
12   DEBUGFORMAT = False
13
14   import sys, tempfile
15   sys.path.append(PYTAN_LIB_PATH)
16
17   import pytan
18   handler = pytan.Handler(
19       username=USERNAME,
20       password=PASSWORD,
```

```
21        host=HOST,
22        port=PORT,
23        loglevel=LOGLEVEL,
24        debugformat=DEBUGFORMAT,
25    )
26
27    print handler
28
29    # setup the arguments for the handler method
30    kwargs = {}
31
32
33    # call the handler with the create_sensor method, passing in kwargs for arguments
34    # this should throw an exception: pytan.utils.HandlerError
35    import traceback
36    try:
37        handler.create_sensor(**kwargs)
38    except Exception as e:
39        traceback.print_exc(file=sys.stdout)
```

Output from Python Code

```
1    Handler for Session to 172.16.31.128:444, Authenticated: True, Version: 6.2.314.3258
2    Traceback (most recent call last):
3      File "<string>", line 37, in <module>
4      File "/Users/jolsen/gh/pytan/lib/pytan/handler.py", line 518, in create_sensor
5        raise HandlerError(m)
6    HandlerError: Sensor creation not supported via PyTan as of yet, too complex
7    Use create_sensor_from_json() instead!
```

pytan API Valid Create Object From JSON Examples

Create package from json

Export a package object to a JSON file, adding ' API TEST' to the name of the package before exporting the JSON file and deleting any pre-existing package with the same (new) name, then create a new package object from the exported JSON file

Example Python Code

```
1    # Path to lib directory which contains pytan package
2    PYTAN_LIB_PATH = '../lib'
3
4    # connection info for Tanium Server
5    USERNAME = "Tanium User"
6    PASSWORD = "T@n!um"
7    HOST = "172.16.31.128"
8    PORT = "444"
9
10   # Logging conrols
11   LOGLEVEL = 2
12   DEBUGFORMAT = False
13
```

```python
14   import sys, tempfile
15   sys.path.append(PYTAN_LIB_PATH)
16
17   import pytan
18   handler = pytan.Handler(
19       username=USERNAME,
20       password=PASSWORD,
21       host=HOST,
22       port=PORT,
23       loglevel=LOGLEVEL,
24       debugformat=DEBUGFORMAT,
25   )
26
27   print handler
28
29   # set the attribute name and value we want to add to the original object (if any)
30   attr_name = "name"
31   attr_add = " API TEST"
32
33   # delete object before creating it?
34   delete = True
35
36   # setup the arguments for getting an object to export as json file
37   get_kwargs = {}
38   get_kwargs["objtype"] = u'package'
39   get_kwargs["id"] = 31
40
41
42   # get objects to use as an export to JSON file
43   orig_objs = handler.get(**get_kwargs)
44
45   # if attr_name and attr_add exists, modify the orig_objs to add attr_add to the attribute
46   # attr_name
47   if attr_name:
48       for x in orig_objs:
49           new_attr = getattr(x, attr_name)
50           new_attr += attr_add
51           setattr(x, attr_name, new_attr)
52           if delete:
53               # delete the object in case it already exists
54               del_kwargs = {}
55               del_kwargs[attr_name] = new_attr
56               del_kwargs['objtype'] = u'package'
57               try:
58                   handler.delete(**del_kwargs)
59               except Exception as e:
60                   print e
61
62   # export orig_objs to a json file
63   json_file, results = handler.export_to_report_file(
64       obj=orig_objs,
65       export_format='json',
66       report_dir=tempfile.gettempdir(),
67   )
68
69   # create the object from the exported JSON file
70   create_kwargs = {'objtype': u'package', 'json_file': json_file}
71   response = handler.create_from_json(**create_kwargs)
```

```
72
73
74  print ""
75  print "Type of response: ", type(response)
76
77  print ""
78  print "print of response:"
79  print response
80
81  print ""
82  print "print the object returned in JSON format:"
83  print response.to_json(response)
```

Output from Python Code

```
1   Handler for Session to 172.16.31.128:444, Authenticated: True, Version: 6.2.314.3258
2   2014-12-07 01:12:11,257 INFO     handler: Deleted 'PackageSpec, id: 108'
3   2014-12-07 01:12:11,258 INFO     handler: Report file '/var/folders/dk/vjr1r_c53yx6k6gzp2bbt_c40000g
4   2014-12-07 01:12:11,280 INFO     handler: New PackageSpec, name: 'Custom Tagging - Add Tags API TEST
5
6   Type of response:  <class 'taniumpy.object_types.package_spec_list.PackageSpecList'>
7
8   print of response:
9   PackageSpecList, len: 1
10
11  print the object returned in JSON format:
12  {
13    "_type": "package_specs",
14    "package_spec": [
15      {
16        "_type": "package_spec",
17        "available_time": "1900-01-01T00:00:00",
18        "command": "cmd /c cscript //T:60 add-tags.vbs \"$1\"",
19        "command_timeout": 60,
20        "creation_time": "2014-12-07T06:12:11",
21        "deleted_flag": 0,
22        "display_name": "Custom Tagging - Add Tags",
23        "expire_seconds": 660,
24        "hidden_flag": 0,
25        "id": 111,
26        "last_modified_by": "Tanium User",
27        "last_update": "2014-12-07T06:12:11",
28        "metadata": {
29          "_type": "metadata",
30          "item": [
31            {
32              "_type": "item",
33              "admin_flag": 0,
34              "name": "defined",
35              "value": "Tanium"
36            },
37            {
38              "_type": "item",
39              "admin_flag": 0,
40              "name": "category",
41              "value": "Tanium"
42            }
```

```
43              ]
44          },
45          "modification_time": "2014-12-07T06:12:11",
46          "name": "Custom Tagging - Add Tags API TEST",
47          "parameter_definition": "{\"parameters\":[{\"restrict\":null,\"validationExpressions\":[{\"fla
48          "source_id": 0,
49          "verify_group_id": 0
50      }
51    ]
52  }
```

Create user from json

Export a user object to a JSON file, adding ' API TEST' to the name of the user before exporting the JSON file and
deleting any pre-existing user with the same (new) name, then create a new user object from the exported JSON file

Example Python Code

```
1   # Path to lib directory which contains pytan package
2   PYTAN_LIB_PATH = '../lib'
3
4   # connection info for Tanium Server
5   USERNAME = "Tanium User"
6   PASSWORD = "T@n!um"
7   HOST = "172.16.31.128"
8   PORT = "444"
9
10  # Logging conrols
11  LOGLEVEL = 2
12  DEBUGFORMAT = False
13
14  import sys, tempfile
15  sys.path.append(PYTAN_LIB_PATH)
16
17  import pytan
18  handler = pytan.Handler(
19      username=USERNAME,
20      password=PASSWORD,
21      host=HOST,
22      port=PORT,
23      loglevel=LOGLEVEL,
24      debugformat=DEBUGFORMAT,
25  )
26
27  print handler
28
29  # set the attribute name and value we want to add to the original object (if any)
30  attr_name = "name"
31  attr_add = " API TEST"
32
33  # delete object before creating it?
34  delete = True
35
36  # setup the arguments for getting an object to export as json file
37  get_kwargs = {}
```

```
38   get_kwargs["objtype"] = u'user'
39   get_kwargs["id"] = 1
40
41
42   # get objects to use as an export to JSON file
43   orig_objs = handler.get(**get_kwargs)
44
45   # if attr_name and attr_add exists, modify the orig_objs to add attr_add to the attribute
46   # attr_name
47   if attr_name:
48       for x in orig_objs:
49           new_attr = getattr(x, attr_name)
50           new_attr += attr_add
51           setattr(x, attr_name, new_attr)
52           if delete:
53               # delete the object in case it already exists
54               del_kwargs = {}
55               del_kwargs[attr_name] = new_attr
56               del_kwargs['objtype'] = u'user'
57               try:
58                   handler.delete(**del_kwargs)
59               except Exception as e:
60                   print e
61
62   # export orig_objs to a json file
63   json_file, results = handler.export_to_report_file(
64       obj=orig_objs,
65       export_format='json',
66       report_dir=tempfile.gettempdir(),
67   )
68
69   # create the object from the exported JSON file
70   create_kwargs = {'objtype': u'user', 'json_file': json_file}
71   response = handler.create_from_json(**create_kwargs)
72
73
74   print ""
75   print "Type of response: ", type(response)
76
77   print ""
78   print "print of response:"
79   print response
80
81   print ""
82   print "print the object returned in JSON format:"
83   print response.to_json(response)
```

Output from Python Code

```
1   Handler for Session to 172.16.31.128:444, Authenticated: True, Version: 6.2.314.3258
2   2014-12-07 01:12:11,312 INFO     handler: Deleted "User, name: 'Jim Olsen API TEST'"
3   2014-12-07 01:12:11,313 INFO     handler: Report file '/var/folders/dk/vjr1r_c53yx6k6gzp2bbt_c40000g
4   2014-12-07 01:12:11,329 INFO     handler: New User, name: 'Jim Olsen API TEST' (ID: 17) created succ
5
6   Type of response:  <class 'taniumpy.object_types.user_list.UserList'>
7
8   print of response:
```

```
 9  UserList, len: 1
10
11  print the object returned in JSON format:
12  {
13    "_type": "users",
14    "user": [
15      {
16        "_type": "user",
17        "deleted_flag": 0,
18        "group_id": 0,
19        "id": 17,
20        "last_login": "2001-01-01T00:00:00",
21        "name": "Jim Olsen API TEST",
22        "permissions": {
23          "_type": "permissions",
24          "permission": "admin"
25        },
26        "roles": {
27          "_type": "roles",
28          "role": [
29            {
30              "_type": "role",
31              "description": "Administrators can perform all functions in the system, including creati
32              "id": 1,
33              "name": "Administrator",
34              "permissions": {
35                "_type": "permissions",
36                "permission": "admin"
37              }
38            }
39          ]
40        }
41      }
42    ]
43  }
```

Create saved question from json

Export a saved question object to a JSON file, adding ' API TEST' to the name of the saved question before exporting
the JSON file and deleting any pre-existing saved question with the same (new) name, then create a new saved question
object from the exported JSON file

Example Python Code

```
 1  # Path to lib directory which contains pytan package
 2  PYTAN_LIB_PATH = '../lib'
 3
 4  # connection info for Tanium Server
 5  USERNAME = "Tanium User"
 6  PASSWORD = "T@n!um"
 7  HOST = "172.16.31.128"
 8  PORT = "444"
 9
10  # Logging conrols
11  LOGLEVEL = 2
```

```python
12  DEBUGFORMAT = False
13
14  import sys, tempfile
15  sys.path.append(PYTAN_LIB_PATH)
16
17  import pytan
18  handler = pytan.Handler(
19      username=USERNAME,
20      password=PASSWORD,
21      host=HOST,
22      port=PORT,
23      loglevel=LOGLEVEL,
24      debugformat=DEBUGFORMAT,
25  )
26
27  print handler
28
29  # set the attribute name and value we want to add to the original object (if any)
30  attr_name = "name"
31  attr_add = " API TEST"
32
33  # delete object before creating it?
34  delete = True
35
36  # setup the arguments for getting an object to export as json file
37  get_kwargs = {}
38  get_kwargs["objtype"] = u'saved_question'
39  get_kwargs["id"] = 1
40
41
42  # get objects to use as an export to JSON file
43  orig_objs = handler.get(**get_kwargs)
44
45  # if attr_name and attr_add exists, modify the orig_objs to add attr_add to the attribute
46  # attr_name
47  if attr_name:
48      for x in orig_objs:
49          new_attr = getattr(x, attr_name)
50          new_attr += attr_add
51          setattr(x, attr_name, new_attr)
52          if delete:
53              # delete the object in case it already exists
54              del_kwargs = {}
55              del_kwargs[attr_name] = new_attr
56              del_kwargs['objtype'] = u'saved_question'
57              try:
58                  handler.delete(**del_kwargs)
59              except Exception as e:
60                  print e
61
62  # export orig_objs to a json file
63  json_file, results = handler.export_to_report_file(
64      obj=orig_objs,
65      export_format='json',
66      report_dir=tempfile.gettempdir(),
67  )
68
69  # create the object from the exported JSON file
```

```python
70  create_kwargs = {'objtype': u'saved_question', 'json_file': json_file}
71  response = handler.create_from_json(**create_kwargs)
72
73
74  print ""
75  print "Type of response: ", type(response)
76
77  print ""
78  print "print of response:"
79  print response
80
81  print ""
82  print "print the object returned in JSON format:"
83  print response.to_json(response)
```

Output from Python Code

```
1   Handler for Session to 172.16.31.128:444, Authenticated: True, Version: 6.2.314.3258
2   2014-12-07 01:12:11,387 INFO     handler: Deleted 'SavedQuestion, id: 179'
3   2014-12-07 01:12:11,388 INFO     handler: Report file '/var/folders/dk/vjr1r_c53yx6k6gzp2bbt_c40000g
4   2014-12-07 01:12:11,414 INFO     handler: New SavedQuestion, name: 'Run Unmanaged Asset Scan on All
5
6   Type of response:  <class 'taniumpy.object_types.saved_question_list.SavedQuestionList'>
7
8   print of response:
9   SavedQuestionList, len: 1
10
11  print the object returned in JSON format:
12  {
13    "_type": "saved_questions",
14    "saved_question": [
15      {
16        "_type": "saved_question",
17        "action_tracking_flag": 0,
18        "archive_enabled_flag": 0,
19        "archive_owner": {
20          "_type": "user"
21        },
22        "expire_seconds": 600,
23        "hidden_flag": 0,
24        "id": 180,
25        "issue_seconds": 120,
26        "issue_seconds_never_flag": 0,
27        "keep_seconds": 0,
28        "mod_time": "2000-01-01T00:00:00",
29        "most_recent_question_id": 987,
30        "name": "Run Unmanaged Asset Scan on All Machines API TEST",
31        "packages": {
32          "_type": "package_specs",
33          "package_spec": []
34        },
35        "public_flag": 1,
36        "query_text": "Get Is Windows from all machines",
37        "question": {
38          "_type": "question",
39          "action_tracking_flag": 0,
40          "expiration": "2014-12-07T06:12:08",
```

```
41            "expire_seconds": 0,
42            "force_computer_id_flag": 0,
43            "hidden_flag": 0,
44            "id": 987,
45            "management_rights_group": {
46              "_type": "group",
47              "id": 0
48            },
49            "query_text": "Get Is Windows from all machines",
50            "saved_question": {
51              "_type": "saved_question",
52              "id": 1
53            },
54            "selects": {
55              "_type": "selects",
56              "select": [
57                {
58                  "_type": "select",
59                  "filter": {
60                    "_type": "filter",
61                    "all_times_flag": 0,
62                    "all_values_flag": 0,
63                    "delimiter_index": 0,
64                    "end_time": "2001-01-01T00:00:00",
65                    "ignore_case_flag": 1,
66                    "max_age_seconds": 0,
67                    "not_flag": 0,
68                    "operator": "Less",
69                    "start_time": "2001-01-01T00:00:00",
70                    "substring_flag": 0,
71                    "substring_length": 0,
72                    "substring_start": 0,
73                    "utf8_flag": 0,
74                    "value_type": "String"
75                  },
76                  "sensor": {
77                    "_type": "sensor",
78                    "category": "Operating System",
79                    "creation_time": "2014-12-06T18:00:21",
80                    "delimiter": ",",
81                    "description": "Returns whether the machine runs Windows.  True if so, False if not.
82                    "exclude_from_parse_flag": 0,
83                    "hash": 2721439124,
84                    "hidden_flag": 0,
85                    "id": 35,
86                    "ignore_case_flag": 1,
87                    "last_modified_by": "Jim Olsen",
88                    "max_age_seconds": 86400,
89                    "metadata": {
90                      "_type": "metadata",
91                      "item": [
92                        {
93                          "_type": "item",
94                          "admin_flag": 0,
95                          "name": "defined",
96                          "value": "Tanium"
97                        }
98                      ]
```

```
 99                      },
100                      "modification_time": "2014-12-06T18:00:21",
101                      "name": "Is Windows",
102                      "queries": {
103                        "_type": "queries",
104                        "query": [
105                          {
106                            "_type": "query",
107                            "platform": "Windows",
108                            "script": "&#039;========================================\n&#039; Is Windows\n
109                            "script_type": "VBScript"
110                          },
111                          {
112                            "_type": "query",
113                            "platform": "Linux",
114                            "script": "#!/bin/bash\necho False\n",
115                            "script_type": "UnixShell"
116                          },
117                          {
118                            "_type": "query",
119                            "platform": "Mac",
120                            "script": "#!/bin/bash\necho False\n",
121                            "script_type": "UnixShell"
122                          }
123                        ]
124                      },
125                      "source_id": 0,
126                      "string_count": 3,
127                      "value_type": "String"
128                    }
129                  }
130                ]
131              },
132          "skip_lock_flag": 0,
133          "user": {
134            "_type": "user",
135            "id": 1,
136            "name": "Jim Olsen"
137          }
138        },
139        "row_count_flag": 0,
140        "sort_column": 0,
141        "user": {
142          "_type": "user",
143          "id": 2,
144          "name": "Tanium User"
145        }
146      }
147    ]
148  }
```

Create action from json

Export an action object to a JSON file, then create a new action object from the exported JSON file. Actions can not be deleted, so do not delete it. This will, in effect, 're-deploy' an action.

Example Python Code

```python
# Path to lib directory which contains pytan package
PYTAN_LIB_PATH = '../lib'

# connection info for Tanium Server
USERNAME = "Tanium User"
PASSWORD = "T@n!um"
HOST = "172.16.31.128"
PORT = "444"

# Logging conrols
LOGLEVEL = 2
DEBUGFORMAT = False

import sys, tempfile
sys.path.append(PYTAN_LIB_PATH)

import pytan
handler = pytan.Handler(
    username=USERNAME,
    password=PASSWORD,
    host=HOST,
    port=PORT,
    loglevel=LOGLEVEL,
    debugformat=DEBUGFORMAT,
)

print handler

# set the attribute name and value we want to add to the original object (if any)
attr_name = ""
attr_add = ""

# delete object before creating it?
delete = False

# setup the arguments for getting an object to export as json file
get_kwargs = {}
get_kwargs["objtype"] = u'action'
get_kwargs["id"] = 1


# get objects to use as an export to JSON file
orig_objs = handler.get(**get_kwargs)

# if attr_name and attr_add exists, modify the orig_objs to add attr_add to the attribute
# attr_name
if attr_name:
    for x in orig_objs:
        new_attr = getattr(x, attr_name)
        new_attr += attr_add
        setattr(x, attr_name, new_attr)
        if delete:
            # delete the object in case it already exists
            del_kwargs = {}
            del_kwargs[attr_name] = new_attr
            del_kwargs['objtype'] = u'action'
            try:
```

```
58                      handler.delete(**del_kwargs)
59              except Exception as e:
60                      print e
61
62      # export orig_objs to a json file
63      json_file, results = handler.export_to_report_file(
64          obj=orig_objs,
65          export_format='json',
66          report_dir=tempfile.gettempdir(),
67      )
68
69      # create the object from the exported JSON file
70      create_kwargs = {'objtype': u'action', 'json_file': json_file}
71      response = handler.create_from_json(**create_kwargs)
72
73
74      print ""
75      print "Type of response: ", type(response)
76
77      print ""
78      print "print of response:"
79      print response
80
81      print ""
82      print "print the object returned in JSON format:"
83      print response.to_json(response)
```

Output from Python Code

```
1    Handler for Session to 172.16.31.128:444, Authenticated: True, Version: 6.2.314.3258
2    2014-12-07 01:12:11,433 INFO     handler: Report file '/var/folders/dk/vjr1r_c53yx6k6gzp2bbt_c40000g
3    2014-12-07 01:12:11,500 INFO     handler: New Action, name: 'Unmanaged Asset Tracking - Run Scan' (I
4
5    Type of response:  <class 'taniumpy.object_types.action_list.ActionList'>
6
7    print of response:
8    ActionList, len: 1
9
10   print the object returned in JSON format:
11   {
12     "_type": "actions",
13     "action": [
14       {
15         "_type": "action",
16         "action_group": {
17           "_type": "group",
18           "id": 0,
19           "name": "Default"
20         },
21         "comment": "Scans for unmanaged assets on the network.",
22         "creation_time": "2014-12-07T06:12:11",
23         "distribute_seconds": 600,
24         "expiration_time": "2014-12-07T07:02:11",
25         "expire_seconds": 3000,
26         "history_saved_question": {
27           "_type": "saved_question",
28           "id": 173
```

```
29            },
30        "id": 75,
31        "name": "Unmanaged Asset Tracking - Run Scan",
32        "package_spec": {
33            "_type": "package_spec",
34            "command": "cmd /c start /B cscript //T:3600 ..\\..\\Tools\\run-ua-scan.vbs /RANDOM_WAIT_TIM
35            "id": 6,
36            "name": "Run Unmanaged Asset Scanner"
37        },
38        "saved_action": {
39            "_type": "saved_action",
40            "id": 54
41        },
42        "skip_lock_flag": 0,
43        "start_time": "2014-12-07T06:12:11",
44        "status": "Active",
45        "stopped_flag": 0,
46        "target_group": {
47            "_type": "group",
48            "id": 65,
49            "name": "Default"
50        },
51        "user": {
52            "_type": "user",
53            "group_id": 0,
54            "id": 2,
55            "last_login": "2014-12-07T06:12:11",
56            "name": "Tanium User"
57        }
58      }
59    ]
60  }
```

Create sensor from json

Export a sensor object to a JSON file, adding ' API TEST' to the name of the sensor before exporting the JSON file and deleting any pre-existing sensor with the same (new) name, then create a new sensor object from the exported JSON file

Example Python Code

```python
1   # Path to lib directory which contains pytan package
2   PYTAN_LIB_PATH = '../lib'
3
4   # connection info for Tanium Server
5   USERNAME = "Tanium User"
6   PASSWORD = "T@n!um"
7   HOST = "172.16.31.128"
8   PORT = "444"
9
10  # Logging conrols
11  LOGLEVEL = 2
12  DEBUGFORMAT = False
13
14  import sys, tempfile
```

```python
15   sys.path.append(PYTAN_LIB_PATH)

16
17   import pytan
18   handler = pytan.Handler(
19       username=USERNAME,
20       password=PASSWORD,
21       host=HOST,
22       port=PORT,
23       loglevel=LOGLEVEL,
24       debugformat=DEBUGFORMAT,
25   )

26
27   print handler

28
29   # set the attribute name and value we want to add to the original object (if any)
30   attr_name = "name"
31   attr_add = " API TEST"

32
33   # delete object before creating it?
34   delete = True

35
36   # setup the arguments for getting an object to export as json file
37   get_kwargs = {}
38   get_kwargs["objtype"] = u'sensor'
39   get_kwargs["id"] = 381

40

41
42   # get objects to use as an export to JSON file
43   orig_objs = handler.get(**get_kwargs)

44
45   # if attr_name and attr_add exists, modify the orig_objs to add attr_add to the attribute
46   # attr_name
47   if attr_name:
48       for x in orig_objs:
49           new_attr = getattr(x, attr_name)
50           new_attr += attr_add
51           setattr(x, attr_name, new_attr)
52           if delete:
53               # delete the object in case it already exists
54               del_kwargs = {}
55               del_kwargs[attr_name] = new_attr
56               del_kwargs['objtype'] = u'sensor'
57               try:
58                   handler.delete(**del_kwargs)
59               except Exception as e:
60                   print e

61
62   # export orig_objs to a json file
63   json_file, results = handler.export_to_report_file(
64       obj=orig_objs,
65       export_format='json',
66       report_dir=tempfile.gettempdir(),
67   )

68
69   # create the object from the exported JSON file
70   create_kwargs = {'objtype': u'sensor', 'json_file': json_file}
71   response = handler.create_from_json(**create_kwargs)

72
```

```
73
74  print ""
75  print "Type of response: ", type(response)
76
77  print ""
78  print "print of response:"
79  print response
80
81  print ""
82  print "print the object returned in JSON format:"
83  print response.to_json(response)
```

Output from Python Code

```
1   Handler for Session to 172.16.31.128:444, Authenticated: True, Version: 6.2.314.3258
2   2014-12-07 01:12:11,539 INFO     handler: Deleted 'Sensor, id: 831'
3   2014-12-07 01:12:11,540 INFO     handler: Report file '/var/folders/dk/vjr1r_c53yx6k6gzp2bbt_c40000g
4   2014-12-07 01:12:11,574 INFO     handler: New Sensor, name: 'Folder Name Search with RegEx Match API
5
6   Type of response:  <class 'taniumpy.object_types.sensor_list.SensorList'>
7
8   print of response:
9   SensorList, len: 1
10
11  print the object returned in JSON format:
12  {
13    "_type": "sensors",
14    "sensor": [
15      {
16        "_type": "sensor",
17        "category": "File System",
18        "creation_time": "2014-12-07T06:12:11",
19        "delimiter": ",",
20        "description": "Finds the specified folder and provides the full path if the folder exists on
21        "exclude_from_parse_flag": 1,
22        "hash": 839342978,
23        "hidden_flag": 0,
24        "id": 833,
25        "ignore_case_flag": 1,
26        "last_modified_by": "Tanium User",
27        "max_age_seconds": 600,
28        "metadata": {
29          "_type": "metadata",
30          "item": [
31            {
32              "_type": "item",
33              "admin_flag": 0,
34              "name": "defined",
35              "value": "McAfee"
36            }
37          ]
38        },
39        "modification_time": "2014-12-07T06:12:11",
40        "name": "Folder Name Search with RegEx Match API TEST",
41        "parameter_definition": "{\"parameters\":[{\"restrict\":null,\"validationExpressions\":[{\"fla
42        "queries": {
43          "_type": "queries",
```

```
44          "query": [
45            {
46              "_type": "query",
47              "platform": "Windows",
48              "script": "&amp;#039;=======================================\n&amp;#039; Folder Name Se
49              "script_type": "VBScript"
50            },
51            {
52              "_type": "query",
53              "platform": "Linux",
54              "script": "#!/bin/bash\n#||dirname||||regexp||||casesensitive||||global||\necho Windows
55              "script_type": "UnixShell"
56            },
57            {
58              "_type": "query",
59              "platform": "Mac",
60              "script": "#!/bin/bash\n#||dirname||||regexp||||casesensitive||||global||\necho Windows
61              "script_type": "UnixShell"
62            }
63          ]
64        },
65        "source_id": 0,
66        "string_count": 0,
67        "value_type": "String"
68      }
69    ]
70  }
```

Create question from json

Export a question object to a JSON file, then create a new question object from the exported JSON file. Questions can not be deleted, so do not delete it. This will, in effect, 're-ask' a question.

Example Python Code

```python
1   # Path to lib directory which contains pytan package
2   PYTAN_LIB_PATH = '../lib'
3
4   # connection info for Tanium Server
5   USERNAME = "Tanium User"
6   PASSWORD = "T@n!um"
7   HOST = "172.16.31.128"
8   PORT = "444"
9
10  # Logging conrols
11  LOGLEVEL = 2
12  DEBUGFORMAT = False
13
14  import sys, tempfile
15  sys.path.append(PYTAN_LIB_PATH)
16
17  import pytan
18  handler = pytan.Handler(
19      username=USERNAME,
20      password=PASSWORD,
```

```
21      host=HOST,
22      port=PORT,
23      loglevel=LOGLEVEL,
24      debugformat=DEBUGFORMAT,
25  )
26
27  print handler
28
29  # set the attribute name and value we want to add to the original object (if any)
30  attr_name = ""
31  attr_add = ""
32
33  # delete object before creating it?
34  delete = False
35
36  # setup the arguments for getting an object to export as json file
37  get_kwargs = {}
38  get_kwargs["objtype"] = u'question'
39  get_kwargs["id"] = 1
40
41
42  # get objects to use as an export to JSON file
43  orig_objs = handler.get(**get_kwargs)
44
45  # if attr_name and attr_add exists, modify the orig_objs to add attr_add to the attribute
46  # attr_name
47  if attr_name:
48      for x in orig_objs:
49          new_attr = getattr(x, attr_name)
50          new_attr += attr_add
51          setattr(x, attr_name, new_attr)
52          if delete:
53              # delete the object in case it already exists
54              del_kwargs = {}
55              del_kwargs[attr_name] = new_attr
56              del_kwargs['objtype'] = u'question'
57              try:
58                  handler.delete(**del_kwargs)
59              except Exception as e:
60                  print e
61
62  # export orig_objs to a json file
63  json_file, results = handler.export_to_report_file(
64      obj=orig_objs,
65      export_format='json',
66      report_dir=tempfile.gettempdir(),
67  )
68
69  # create the object from the exported JSON file
70  create_kwargs = {'objtype': u'question', 'json_file': json_file}
71  response = handler.create_from_json(**create_kwargs)
72
73
74  print ""
75  print "Type of response: ", type(response)
76
77  print ""
78  print "print of response:"
```

```
79  print response
80
81  print ""
82  print "print the object returned in JSON format:"
83  print response.to_json(response)
```

Output from Python Code

```
1   Handler for Session to 172.16.31.128:444, Authenticated: True, Version: 6.2.314.3258
2   2014-12-07 01:12:11,595 INFO     handler: Report file '/var/folders/dk/vjr1r_c53yx6k6gzp2bbt_c40000g
3   2014-12-07 01:12:11,623 INFO     handler: New Question, id: 1025 (ID: 1025) created successfully!
4
5   Type of response:  <class 'taniumpy.object_types.question_list.QuestionList'>
6
7   print of response:
8   QuestionList, len: 1
9
10  print the object returned in JSON format:
11  {
12    "_type": "questions",
13    "question": [
14      {
15        "_type": "question",
16        "action_tracking_flag": 0,
17        "context_group": {
18          "_type": "group",
19          "id": 0
20        },
21        "expiration": "2014-12-07T06:22:11",
22        "expire_seconds": 0,
23        "force_computer_id_flag": 1,
24        "hidden_flag": 0,
25        "id": 1025,
26        "management_rights_group": {
27          "_type": "group",
28          "id": 0
29        },
30        "query_text": "Get Action Statuses matches \"Nil\" from all machines",
31        "saved_question": {
32          "_type": "saved_question",
33          "id": 0
34        },
35        "selects": {
36          "_type": "selects",
37          "select": [
38            {
39              "_type": "select",
40              "filter": {
41                "_type": "filter",
42                "all_times_flag": 0,
43                "all_values_flag": 1,
44                "delimiter_index": 0,
45                "end_time": "2001-01-01T00:00:00",
46                "ignore_case_flag": 1,
47                "max_age_seconds": 0,
48                "not_flag": 0,
49                "operator": "RegexMatch",
```

```
50              "start_time": "2001-01-01T00:00:00",
51              "substring_flag": 0,
52              "substring_length": 0,
53              "substring_start": 0,
54              "utf8_flag": 0,
55              "value": "Nil",
56              "value_type": "String"
57            },
58            "sensor": {
59              "_type": "sensor",
60              "category": "Reserved",
61              "description": "The recorded state of each action a client has taken recently in the f
62              "exclude_from_parse_flag": 1,
63              "hash": 1792443391,
64              "hidden_flag": 0,
65              "id": 1,
66              "ignore_case_flag": 1,
67              "max_age_seconds": 3600,
68              "name": "Action Statuses",
69              "queries": {
70                "_type": "queries",
71                "query": [
72                  {
73                    "_type": "query",
74                    "platform": "Windows",
75                    "script": "Reserved",
76                    "script_type": "WMIQuery"
77                  }
78                ]
79              },
80              "source_id": 0,
81              "string_count": 3357,
82              "value_type": "String"
83            }
84          }
85        ]
86      },
87      "skip_lock_flag": 0,
88      "user": {
89        "_type": "user",
90        "id": 2,
91        "name": "Tanium User"
92      }
93    }
94  ]
95 }
```

Create whitelisted url from json

Export a whitelisted url object to a JSON file, adding ' test1' to the url_regex of the whitelisted url before exporting the JSON file and deleting any pre-existing whitelisted url with the same (new) name, then create a new whitelisted url object from the exported JSON file

Example Python Code

```
1   # Path to lib directory which contains pytan package
2   PYTAN_LIB_PATH = '../lib'
3
4   # connection info for Tanium Server
5   USERNAME = "Tanium User"
6   PASSWORD = "T@n!um"
7   HOST = "172.16.31.128"
8   PORT = "444"
9
10  # Logging conrols
11  LOGLEVEL = 2
12  DEBUGFORMAT = False
13
14  import sys, tempfile
15  sys.path.append(PYTAN_LIB_PATH)
16
17  import pytan
18  handler = pytan.Handler(
19      username=USERNAME,
20      password=PASSWORD,
21      host=HOST,
22      port=PORT,
23      loglevel=LOGLEVEL,
24      debugformat=DEBUGFORMAT,
25  )
26
27  print handler
28
29  # set the attribute name and value we want to add to the original object (if any)
30  attr_name = "url_regex"
31  attr_add = " API TEST"
32
33  # delete object before creating it?
34  delete = True
35
36  # setup the arguments for getting an object to export as json file
37  get_kwargs = {}
38  get_kwargs["objtype"] = u'whitelisted_url'
39  get_kwargs["url_regex"] = u'test1'
40
41
42  # get objects to use as an export to JSON file
43  orig_objs = handler.get(**get_kwargs)
44
45  # if attr_name and attr_add exists, modify the orig_objs to add attr_add to the attribute
46  # attr_name
47  if attr_name:
48      for x in orig_objs:
49          new_attr = getattr(x, attr_name)
50          new_attr += attr_add
51          setattr(x, attr_name, new_attr)
52          if delete:
53              # delete the object in case it already exists
54              del_kwargs = {}
55              del_kwargs[attr_name] = new_attr
56              del_kwargs['objtype'] = u'whitelisted_url'
57              try:
58                  handler.delete(**del_kwargs)
```

```
59                except Exception as e:
60                    print e
61
62    # export orig_objs to a json file
63    json_file, results = handler.export_to_report_file(
64        obj=orig_objs,
65        export_format='json',
66        report_dir=tempfile.gettempdir(),
67    )
68
69    # create the object from the exported JSON file
70    create_kwargs = {'objtype': u'whitelisted_url', 'json_file': json_file}
71    response = handler.create_from_json(**create_kwargs)
72
73
74    print ""
75    print "Type of response: ", type(response)
76
77    print ""
78    print "print of response:"
79    print response
80
81    print ""
82    print "print the object returned in JSON format:"
83    print response.to_json(response)
```

Output from Python Code

```
1    Handler for Session to 172.16.31.128:444, Authenticated: True, Version: 6.2.314.3258
2    2014-12-07 01:12:11,652 INFO     handler: Deleted 'WhiteListedUrl, id: 16'
3    2014-12-07 01:12:11,653 INFO     handler: Report file '/var/folders/dk/vjr1r_c53yx6k6gzp2bbt_c40000g
4    2014-12-07 01:12:11,664 INFO     handler: New WhiteListedUrl, id: 18 (ID: 18) created successfully!
5
6    Type of response:  <class 'taniumpy.object_types.white_listed_url_list.WhiteListedUrlList'>
7
8    print of response:
9    WhiteListedUrlList, len: 1
10
11   print the object returned in JSON format:
12   {
13     "_type": "white_listed_urls",
14     "white_listed_url": [
15       {
16         "_type": "white_listed_url",
17         "download_seconds": 86400,
18         "id": 18,
19         "url_regex": "test1 API TEST"
20       }
21     ]
22   }
```

Create group from json

Export a group object to a JSON file, adding ' API TEST' to the name of the group before exporting the JSON file and deleting any pre-existing group with the same (new) name, then create a new group object from the exported JSON

file

Example Python Code

```python
# Path to lib directory which contains pytan package
PYTAN_LIB_PATH = '../lib'

# connection info for Tanium Server
USERNAME = "Tanium User"
PASSWORD = "T@n!um"
HOST = "172.16.31.128"
PORT = "444"

# Logging conrols
LOGLEVEL = 2
DEBUGFORMAT = False

import sys, tempfile
sys.path.append(PYTAN_LIB_PATH)

import pytan
handler = pytan.Handler(
    username=USERNAME,
    password=PASSWORD,
    host=HOST,
    port=PORT,
    loglevel=LOGLEVEL,
    debugformat=DEBUGFORMAT,
)

print handler

# set the attribute name and value we want to add to the original object (if any)
attr_name = "name"
attr_add = " API TEST"

# delete object before creating it?
delete = True

# setup the arguments for getting an object to export as json file
get_kwargs = {}
get_kwargs["objtype"] = u'group'
get_kwargs["name"] = u'All Computers'


# get objects to use as an export to JSON file
orig_objs = handler.get(**get_kwargs)

# if attr_name and attr_add exists, modify the orig_objs to add attr_add to the attribute
# attr_name
if attr_name:
    for x in orig_objs:
        new_attr = getattr(x, attr_name)
        new_attr += attr_add
        setattr(x, attr_name, new_attr)
        if delete:
            # delete the object in case it already exists
            del_kwargs = {}
```

```
55              del_kwargs[attr_name] = new_attr
56              del_kwargs['objtype'] = u'group'
57          try:
58              handler.delete(**del_kwargs)
59          except Exception as e:
60              print e

62  # export orig_objs to a json file
63  json_file, results = handler.export_to_report_file(
64      obj=orig_objs,
65      export_format='json',
66      report_dir=tempfile.gettempdir(),
67  )

69  # create the object from the exported JSON file
70  create_kwargs = {'objtype': u'group', 'json_file': json_file}
71  response = handler.create_from_json(**create_kwargs)


74  print ""
75  print "Type of response: ", type(response)

77  print ""
78  print "print of response:"
79  print response

81  print ""
82  print "print the object returned in JSON format:"
83  print response.to_json(response)
```

Output from Python Code

```
1   Handler for Session to 172.16.31.128:444, Authenticated: True, Version: 6.2.314.3258
2   2014-12-07 01:12:11,692 INFO     handler: Deleted 'Group, id: 495'
3   2014-12-07 01:12:11,693 INFO     handler: Report file '/var/folders/dk/vjr1r_c53yx6k6gzp2bbt_c40000g
4   2014-12-07 01:12:11,712 INFO     handler: New Group, name: 'All Computers API TEST' (ID: 524) create
5
6   Type of response:  <class 'taniumpy.object_types.group_list.GroupList'>
7
8   print of response:
9   GroupList, len: 1
10
11  print the object returned in JSON format:
12  {
13    "_type": "groups",
14    "group": [
15      {
16        "_type": "group",
17        "and_flag": 0,
18        "deleted_flag": 1,
19        "filters": {
20          "_type": "filters",
21          "filter": []
22        },
23        "id": 524,
24        "name": "All Computers API TEST",
25        "not_flag": 0,
```

```
26          "sub_groups": {
27            "_type": "groups",
28            "group": []
29          },
30          "type": 0
31        }
32      ]
33    }
```

pytan API Invalid Create Object From JSON Examples

Invalid create saved action from json

Create a saved action from json (not supported!)

Example Python Code

```python
1   # Path to lib directory which contains pytan package
2   PYTAN_LIB_PATH = '../lib'
3
4   # connection info for Tanium Server
5   USERNAME = "Tanium User"
6   PASSWORD = "T@n!um"
7   HOST = "172.16.31.128"
8   PORT = "444"
9
10  # Logging conrols
11  LOGLEVEL = 2
12  DEBUGFORMAT = False
13
14  import sys, tempfile
15  sys.path.append(PYTAN_LIB_PATH)
16
17  import pytan
18  handler = pytan.Handler(
19      username=USERNAME,
20      password=PASSWORD,
21      host=HOST,
22      port=PORT,
23      loglevel=LOGLEVEL,
24      debugformat=DEBUGFORMAT,
25  )
26
27  print handler
28
29  # setup the arguments for getting an object to export as json file
30  get_kwargs = {}
31  get_kwargs["objtype"] = u'saved_action'
32  get_kwargs["name"] = u'Distribute Tanium Standard Utilities'
33
34  # get objects to use as an export to JSON file
35  orig_objs = handler.get(**get_kwargs)
36
37  # export orig_objs to a json file
38  json_file, results = handler.export_to_report_file(
```

```
39        obj=orig_objs,
40        export_format='json',
41        report_dir=tempfile.gettempdir(),
42  )
43
44  # call the handler with the create_from_json method, passing in kwargs for arguments
45  # this should throw an exception: pytan.utils.HandlerError
46  import traceback
47
48  # create the object from the exported JSON file
49  create_kwargs = {'objtype': u'saved_action', 'json_file': json_file}
50  try:
51      response = handler.create_from_json(**create_kwargs)
52  except Exception as e:
53      traceback.print_exc(file=sys.stdout)
```

Output from Python Code

```
1  Handler for Session to 172.16.31.128:444, Authenticated: True, Version: 6.2.314.3258
2  2014-12-07 01:12:11,736 INFO     handler: Report file '/var/folders/dk/vjr1r_c53yx6k6gzp2bbt_c40000g
3  Traceback (most recent call last):
4    File "<string>", line 51, in <module>
5    File "/Users/jolsen/gh/pytan/lib/pytan/handler.py", line 465, in create_from_json
6      raise HandlerError(m(objtype, json_createable))
7  HandlerError: saved_action is not a json createable object! Supported objects: user, whitelisted_url
```

Invalid create client from json

Create a client from json (not supported!)

Example Python Code

```
1  # Path to lib directory which contains pytan package
2  PYTAN_LIB_PATH = '../lib'
3
4  # connection info for Tanium Server
5  USERNAME = "Tanium User"
6  PASSWORD = "T@n!um"
7  HOST = "172.16.31.128"
8  PORT = "444"
9
10  # Logging conrols
11  LOGLEVEL = 2
12  DEBUGFORMAT = False
13
14  import sys, tempfile
15  sys.path.append(PYTAN_LIB_PATH)
16
17  import pytan
18  handler = pytan.Handler(
19      username=USERNAME,
20      password=PASSWORD,
21      host=HOST,
22      port=PORT,
```

```
23        loglevel=LOGLEVEL,
24        debugformat=DEBUGFORMAT,
25    )
26
27    print handler
28
29    # setup the arguments for getting an object to export as json file
30    get_kwargs = {}
31    get_kwargs["objtype"] = u'client'
32    get_kwargs["status"] = u'Leader'
33
34    # get objects to use as an export to JSON file
35    orig_objs = handler.get(**get_kwargs)
36
37    # export orig_objs to a json file
38    json_file, results = handler.export_to_report_file(
39        obj=orig_objs,
40        export_format='json',
41        report_dir=tempfile.gettempdir(),
42    )
43
44    # call the handler with the create_from_json method, passing in kwargs for arguments
45    # this should throw an exception: pytan.utils.HandlerError
46    import traceback
47
48    # create the object from the exported JSON file
49    create_kwargs = {'objtype': u'client', 'json_file': json_file}
50    try:
51        response = handler.create_from_json(**create_kwargs)
52    except Exception as e:
53        traceback.print_exc(file=sys.stdout)
```

Output from Python Code

```
1    Handler for Session to 172.16.31.128:444, Authenticated: True, Version: 6.2.314.3258
2    2014-12-07 01:12:11,755 INFO     handler: Report file '/var/folders/dk/vjr1r_c53yx6k6gzp2bbt_c40000g
3    Traceback (most recent call last):
4      File "<string>", line 51, in <module>
5      File "/Users/jolsen/gh/pytan/lib/pytan/handler.py", line 465, in create_from_json
6        raise HandlerError(m(objtype, json_createable))
7    HandlerError: client is not a json createable object! Supported objects: user, whitelisted_url, save
```

Invalid create userrole from json

Create a user role from json (not supported!)

Example Python Code

```
1    # Path to lib directory which contains pytan package
2    PYTAN_LIB_PATH = '../lib'
3
4    # connection info for Tanium Server
5    USERNAME = "Tanium User"
6    PASSWORD = "T@n!um"
```

```
7    HOST = "172.16.31.128"
8    PORT = "444"
9
10   # Logging conrols
11   LOGLEVEL = 2
12   DEBUGFORMAT = False
13
14   import sys, tempfile
15   sys.path.append(PYTAN_LIB_PATH)
16
17   import pytan
18   handler = pytan.Handler(
19       username=USERNAME,
20       password=PASSWORD,
21       host=HOST,
22       port=PORT,
23       loglevel=LOGLEVEL,
24       debugformat=DEBUGFORMAT,
25   )
26
27   print handler
28
29   # setup the arguments for getting an object to export as json file
30   get_kwargs = {}
31   get_kwargs["objtype"] = u'userrole'
32   get_kwargs["name"] = u'Administrator'
33
34   # get objects to use as an export to JSON file
35   orig_objs = handler.get(**get_kwargs)
36
37   # export orig_objs to a json file
38   json_file, results = handler.export_to_report_file(
39       obj=orig_objs,
40       export_format='json',
41       report_dir=tempfile.gettempdir(),
42   )
43
44   # call the handler with the create_from_json method, passing in kwargs for arguments
45   # this should throw an exception: pytan.utils.HandlerError
46   import traceback
47
48   # create the object from the exported JSON file
49   create_kwargs = {'objtype': u'userrole', 'json_file': json_file}
50   try:
51       response = handler.create_from_json(**create_kwargs)
52   except Exception as e:
53       traceback.print_exc(file=sys.stdout)
```

Output from Python Code

```
1    Handler for Session to 172.16.31.128:444, Authenticated: True, Version: 6.2.314.3258
2    2014-12-07 01:12:11,793 INFO     handler: Report file '/var/folders/dk/vjr1r_c53yx6k6gzp2bbt_c40000g
3    Traceback (most recent call last):
4      File "<string>", line 51, in <module>
5      File "/Users/jolsen/gh/pytan/lib/pytan/handler.py", line 465, in create_from_json
6        raise HandlerError(m(objtype, json_createable))
```

```
7   HandlerError: userrole is not a json createable object! Supported objects: user, whitelisted_url, sa
```

Invalid create setting from json

Create a setting from json (not supported!)

Example Python Code

```python
1   # Path to lib directory which contains pytan package
2   PYTAN_LIB_PATH = '../lib'
3
4   # connection info for Tanium Server
5   USERNAME = "Tanium User"
6   PASSWORD = "T@n!um"
7   HOST = "172.16.31.128"
8   PORT = "444"
9
10  # Logging conrols
11  LOGLEVEL = 2
12  DEBUGFORMAT = False
13
14  import sys, tempfile
15  sys.path.append(PYTAN_LIB_PATH)
16
17  import pytan
18  handler = pytan.Handler(
19      username=USERNAME,
20      password=PASSWORD,
21      host=HOST,
22      port=PORT,
23      loglevel=LOGLEVEL,
24      debugformat=DEBUGFORMAT,
25  )
26
27  print handler
28
29  # setup the arguments for getting an object to export as json file
30  get_kwargs = {}
31  get_kwargs["objtype"] = u'setting'
32  get_kwargs["id"] = 1
33
34  # get objects to use as an export to JSON file
35  orig_objs = handler.get(**get_kwargs)
36
37  # export orig_objs to a json file
38  json_file, results = handler.export_to_report_file(
39      obj=orig_objs,
40      export_format='json',
41      report_dir=tempfile.gettempdir(),
42  )
43
44  # call the handler with the create_from_json method, passing in kwargs for arguments
45  # this should throw an exception: pytan.utils.HandlerError
46  import traceback
47
```

```
48   # create the object from the exported JSON file
49   create_kwargs = {'objtype': u'setting', 'json_file': json_file}
50   try:
51       response = handler.create_from_json(**create_kwargs)
52   except Exception as e:
53       traceback.print_exc(file=sys.stdout)
```

Output from Python Code

```
1   Handler for Session to 172.16.31.128:444, Authenticated: True, Version: 6.2.314.3258
2   2014-12-07 01:12:11,809 INFO     handler: Report file '/var/folders/dk/vjr1r_c53yx6k6gzp2bbt_c40000g
3   Traceback (most recent call last):
4     File "<string>", line 51, in <module>
5     File "/Users/jolsen/gh/pytan/lib/pytan/handler.py", line 465, in create_from_json
6       raise HandlerError(m(objtype, json_createable))
7   HandlerError: setting is not a json createable object! Supported objects: user, whitelisted_url, sav
```

pytan API Valid Export ResultSet Examples

Export resultset csv default options

Export a ResultSet from asking a question as CSV with the default options

Example Python Code

```
1    # Path to lib directory which contains pytan package
2    PYTAN_LIB_PATH = '../lib'
3
4    # connection info for Tanium Server
5    USERNAME = "Tanium User"
6    PASSWORD = "T@n!um"
7    HOST = "172.16.31.128"
8    PORT = "444"
9
10   # Logging conrols
11   LOGLEVEL = 2
12   DEBUGFORMAT = False
13
14   import sys, tempfile
15   sys.path.append(PYTAN_LIB_PATH)
16
17   import pytan
18   handler = pytan.Handler(
19       username=USERNAME,
20       password=PASSWORD,
21       host=HOST,
22       port=PORT,
23       loglevel=LOGLEVEL,
24       debugformat=DEBUGFORMAT,
25   )
26
27   print handler
28
29   # setup the export_obj kwargs for later
```

```
30  export_kwargs = {}
31  export_kwargs["export_format"] = u'csv'
32
33  # ask the question that will provide the resultset that we want to use
34  ask_kwargs = {
35      'qtype': 'manual_human',
36      'sensors': [
37          "Computer Name", "IP Route Details", "IP Address",
38          'Folder Name Search with RegEx Match{dirname=Program Files,regex=.*Shared.*}',
39      ],
40  }
41  response = handler.ask(**ask_kwargs)
42
43  # export the object to a string
44  # (we could just as easily export to a file using export_to_report_file)
45  export_kwargs['obj'] = response['question_results']
46  export_str = handler.export_obj(**export_kwargs)
47
48
49  print ""
50  print "print the export_str returned from export_obj():"
51  print export_str
```

Output from Python Code

```
1   Handler for Session to 172.16.31.128:444, Authenticated: True, Version: 6.2.314.3258
2   2014-12-07 01:12:11,944 INFO     question_progress: Results 0% (Get Computer Name and IP Route Detai
3   2014-12-07 01:12:16,974 INFO     question_progress: Results 0% (Get Computer Name and IP Route Detai
4   2014-12-07 01:12:22,001 INFO     question_progress: Results 0% (Get Computer Name and IP Route Detai
5   2014-12-07 01:12:27,026 INFO     question_progress: Results 0% (Get Computer Name and IP Route Detai
6   2014-12-07 01:12:32,054 INFO     question_progress: Results 0% (Get Computer Name and IP Route Detai
7   2014-12-07 01:12:37,076 INFO     question_progress: Results 0% (Get Computer Name and IP Route Detai
8   2014-12-07 01:12:42,103 INFO     question_progress: Results 0% (Get Computer Name and IP Route Detai
9   2014-12-07 01:12:47,128 INFO     question_progress: Results 0% (Get Computer Name and IP Route Detai
10  2014-12-07 01:12:52,156 INFO     question_progress: Results 0% (Get Computer Name and IP Route Detai
11  2014-12-07 01:12:57,185 INFO     question_progress: Results 0% (Get Computer Name and IP Route Detai
12  2014-12-07 01:13:02,213 INFO     question_progress: Results 0% (Get Computer Name and IP Route Detai
13  2014-12-07 01:13:07,236 INFO     question_progress: Results 50% (Get Computer Name and IP Route Deta
14  2014-12-07 01:13:12,260 INFO     question_progress: Results 50% (Get Computer Name and IP Route Deta
15  2014-12-07 01:13:17,289 INFO     question_progress: Results 50% (Get Computer Name and IP Route Deta
16  2014-12-07 01:13:22,319 INFO     question_progress: Results 50% (Get Computer Name and IP Route Deta
17  2014-12-07 01:13:27,344 INFO     question_progress: Results 100% (Get Computer Name and IP Route Det
18
19  print the export_str returned from export_obj():
20  Computer Name,Destination,Flags,"Folder Name Search with RegEx Match[No, Program Files, No, ]",Gatew
21  Casus-Belli.local,"default
22  192.168.0
23  169.254
24  172.16.31/24
25  192.168.0.1/32
26  172.16.152/24
27  192.168.0.3/32","UGSc
28  UCS
29  UCS
30  UC
31  UCS
32  UC
```

```
33   UCS",Windows Only,"192.168.0.1
34   link#4
35   link#4
36   link#13
37   link#4
38   link#12
39   link#4","fe80::e896:c1c9:d927:bbe0
40   2604:2000:69e6:1a00:82e6:50ff:fe1d:1dca
41   172.16.31.1
42   fe80::82e6:50ff:fe1d:1dca
43   172.16.152.1
44   192.168.0.3
45   fe80::2886:21ff:fe7f:3ef4
46   2604:2000:69e6:1a00:95ad:5fe5:cf9e:5403
47   fd1b:56a6:50eb:cd49:e896:c1c9:d927:bbe0","en0
48   en0
49   en0
50   vmnet8
51   en0
52   vmnet1
53   en0","None
54   None
55   None
56   None
57   None
58   None
59   None","None
60   None
61   None
62   None
63   None
64   None
65   None"
66   jtanium1.localdomain,"172.16.31.128
67   172.16.31.0
68   127.0.0.1
69   0.0.0.0
70   127.0.0.0","-
71   -
72   -
73   -
74   -","C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-09-16-20-44-23\cgi-bin
75   C:\Program Files\VMware\VMware Tools\plugins\vmsvc
76   C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\1040_ITA_LP\x64\1040\help
77   C:\Program Files\Common Files\Microsoft Shared\VS7Debug
78   C:\Program Files\Tanium\Tanium Server\Apache24\manual\style
79   C:\Program Files\Tanium\Tanium Server\Apache24\htdocs\console\history
80   C:\Program Files\Common Files\VMware\Drivers\vmci\sockets\include
81   C:\Program Files\Common Files\Microsoft Shared\ink\ar-SA
82   C:\Program Files\Tanium\Tanium Server\plugins\console\Dashboards
83   C:\Program Files\Tanium\Tanium Server\CertificateBackup2014-11-17-11-17-33
84   C:\Program Files\Common Files\SpeechEngines\Microsoft
85   C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-09-16-20-44-23\modules
86   C:\Program Files\Common Files\Microsoft Shared\ink\ru-RU
87   C:\Program Files\Microsoft SQL Server\110\DTS\ForEachEnumerators\en
88   C:\Program Files\Tanium\Tanium Server\Apache24\htdocs\php\Auth
89   C:\Program Files\MSBuild\Microsoft\Windows Workflow Foundation\v3.0
90   C:\Program Files\MSBuild\Microsoft\Windows Workflow Foundation\v3.5
```

```
 91   C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\2052_CHS_LP\x64
 92   C:\Program Files\Common Files\Microsoft Shared\ink\fsdefinitions\keypad
 93   C:\Program Files\Tanium\Tanium Server\plugins\console\InstallPlugin
 94   C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\Log\20140910_112831\resources
 95   C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\Bin
 96   C:\Program Files\Microsoft SQL Server\110\DTS\ForEachEnumerators
 97   C:\Program Files\Tanium\Tanium Server\Apache24\conf
 98   C:\Program Files\MSBuild\Microsoft
 99   C:\Program Files\Microsoft SQL Server\110\DTS\UpgradeMappings
100   C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-11-17-11-17-33\htdocs\php\Auth
101   C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-09-16-20-44-23\manual\style\css
102   C:\Program Files\Common Files\Microsoft Shared\ink
103   C:\Program Files\Common Files\Microsoft Shared\ink\sv-SE
104   C:\Program Files\VMware\VMware Tools\messages
105   C:\Program Files\Microsoft SQL Server\110\DTS\ForEachEnumerators\Resources
106   C:\Program Files\Common Files\Microsoft Shared\ink\uk-UA
107   C:\Program Files\Microsoft SQL Server\110\DTS\Binn\Resources\1033
108   C:\Program Files\Tanium\Tanium Server\Apache24\manual\platform
109   C:\Program Files\Microsoft SQL Server\110\KeyFile
110   C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\Resources\3082
111   C:\Program Files\Tanium\Tanium Server\CertificateBackup2014-09-16-20-44-23
112   C:\Program Files\Microsoft SQL Server\100\Setup Bootstrap\Release\x64\1033
113   C:\Program Files\Microsoft.NET\ADOMD.NET
114   C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\1028_CHT_LP\x64\1028\help
115   C:\Program Files\Common Files\Microsoft Shared\ink\sl-SI
116   C:\Program Files\Tanium\Tanium Server\plugins\console\UserGroups
117   C:\Program Files\Common Files\Microsoft Shared\ink\hu-HU
118   C:\Program Files\Common Files\System\en-US
119   C:\Program Files\Common Files\Microsoft Shared\ink\zh-TW
120   C:\Program Files\Common Files\Microsoft Shared\ink\zh-CN
121   C:\Program Files\Common Files\VMware\Drivers\video_wddm
122   C:\Program Files\Common Files\Microsoft Shared\ink\fi-FI
123   C:\Program Files\Common Files\Microsoft Shared
124   C:\Program Files\Microsoft SQL Server\110\SDK\Include
125   C:\Program Files\Common Files\Microsoft Shared\ink\da-DK
126   C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-09-16-20-44-23\icons\small
127   C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-11-17-11-17-33
128   C:\Program Files\Microsoft Visual Studio 10.0\Common7\IDE\PrivateAssemblies
129   C:\Program Files\Microsoft SQL Server\80
130   C:\Program Files\Microsoft SQL Server\90
131   C:\Program Files\Windows Mail
132   C:\Program Files\Common Files\VMware\Drivers\vmci\sockets\bin\win64
133   C:\Program Files\Common Files\VMware\Drivers\vmci\sockets\bin\win32
134   C:\Program Files\Common Files\Microsoft Shared\ink\fsdefinitions\oskmenu
135   C:\Program Files\Microsoft SQL Server\110\DTS\LogProviders
136   C:\Program Files\Microsoft SQL Server\100\Setup Bootstrap\Release\Resources\1033
137   C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\1049_RUS_LP\x64\1049
138   C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\Log\20140910_112604\Datastore_GlobalRules
139   C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-09-16-20-44-23\manual\images
140   C:\Program Files\Microsoft SQL Server\110\SDK
141   C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\1036_FRA_LP\x64
142   C:\Program Files\Windows NT\Accessories
143   C:\Program Files\Tanium\Tanium Server\content_public_keys
144   C:\Program Files\Windows NT\TableTextService\en-US
145   C:\Program Files\Tanium\Tanium Server\plugins\console\Manifest
146   C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-09-16-20-44-23\bin
147   C:\Program Files\Tanium\Tanium Server\Apache24\logs
148   C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\1033_ENU_LP
```

```
149   C:\Program Files\Tanium\Tanium Server\plugins\content
150   C:\Program Files\Reference Assemblies\Microsoft\Framework
151   C:\Program Files\Microsoft SQL Server\110\DTS\Connections\en
152   C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-11-17-11-17-33\icons\small
153   C:\Program Files\Common Files\VMware\Drivers\Virtual Printer\TPOG3\amd64
154   C:\Program Files\Microsoft Visual Studio 10.0\Common7\IDE\PrivateAssemblies\1033
155   C:\Program Files\Common Files\Microsoft Shared\ink\ko-KR
156   C:\Program Files\Tanium\Tanium Server\Apache24\manual\ssl
157   C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\1042_KOR_LP\x64
158   C:\Program Files\Tanium\Tanium Server\Apache24\manual\style\css
159   C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-11-17-11-17-33\manual\misc
160   C:\Program Files\Microsoft SQL Server\110\SDK\Lib\x64
161   C:\Program Files\Microsoft SQL Server\110\SDK\Lib\x86
162   C:\Program Files\Tanium\Tanium Server\plugins\console\lib
163   C:\Program Files\Common Files\Microsoft Shared\ink\it-IT
164   C:\Program Files\Microsoft.NET
165   C:\Program Files\Microsoft SQL Server\110\DTS\DataDumps
166   C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-11-17-11-17-33\conf
167   C:\Program Files\Internet Explorer\images
168   C:\Program Files\Windows NT
169   C:\Program Files\Microsoft SQL Server\110\COM\Resources\1033
170   C:\Program Files\Microsoft SQL Server\MSSQL11.SQLEXPRESS\MSSQL\JOBS
171   C:\Program Files\Tanium\Tanium Server\Apache24\htdocs
172   C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\1041_JPN_LP
173   C:\Program Files\Tanium\Tanium Server\php55\extras
174   C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\1031_DEU_LP\x64\1031\help
175   C:\Program Files\Microsoft SQL Server\100\Setup Bootstrap
176   C:\Program Files\Common Files\SpeechEngines\Microsoft\TTS20
177   C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-09-16-20-44-23
178   C:\Program Files\Common Files\Microsoft Shared\Triedit
179   C:\Program Files\Microsoft.NET\ADOMD.NET\110
180   C:\Program Files\Microsoft SQL Server\110\Shared
181   C:\Program Files\Microsoft SQL Server\110\Tools\Binn
182   C:\Program Files\Microsoft Help Viewer
183   C:\Program Files\Microsoft SQL Server\100\Setup Bootstrap\Release\x64\Patch
184   C:\Program Files\Tanium\Tanium Server\Apache24\bin\iconv
185   C:\Program Files\Common Files\VMware\Drivers\memctl
186   C:\Program Files\Tanium\Tanium Server\plugins\console
187   C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-09-16-20-44-23\conf\original
188   C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-09-16-20-44-23\htdocs\php
189   C:\Program Files\Microsoft SQL Server\90\License Terms
190   C:\Program Files\Microsoft SQL Server\100\Setup Bootstrap\Release\Resources
191   C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\x64\pt
192   C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\x64\ru
193   C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-11-17-11-17-33\lib
194   C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\x64\it
195   C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\x64\ko
196   C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\x64\ja
197   C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\x64\es
198   C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\x64\de
199   C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\x64\fr
200   C:\Program Files\Common Files\Microsoft Shared\ink\he-IL
201   C:\Program Files\Common Files\Microsoft Shared\ink\ro-RO
202   C:\Program Files\Common Files\VMware\Drivers\pvscsi
203   C:\Program Files\Microsoft Visual Studio 10.0\Common7\Packages
204   C:\Program Files\Microsoft Visual Studio 10.0\Common7
205   C:\Program Files\Common Files\Services
206   C:\Program Files\Common Files\Microsoft Shared\ink\fsdefinitions\oskpred
```

```
207  C:\Program Files\Microsoft SQL Server\110\SDK\Lib
208  C:\Program Files\Microsoft SQL Server\110\DTS\PipelineComponents\Resources\1033
209  C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-09-16-20-44-23\manual\misc
210  C:\Program Files\Tanium\Tanium Server\Apache24\manual\misc
211  C:\Program Files\Common Files\SpeechEngines\Microsoft\TTS20\en-US
212  C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-11-17-11-17-33\modules
213  C:\Program Files\Microsoft SQL Server\110\DTS\Connections
214  C:\Program Files\Tanium\Tanium Server\Downloads\URLCache
215  C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\1046_PTB_LP
216  C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-09-16-20-44-23\manual\rewrite
217  C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-11-17-11-17-33\manual\images
218  C:\Program Files\Common Files\VMware\Drivers\vmci\device
219  C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-11-17-11-17-33\manual\rewrite
220  C:\Program Files\Common Files
221  C:\Program Files\Tanium\Tanium Server\Apache24\manual
222  C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-09-16-20-44-23\manual\platform
223  C:\Program Files\Tanium\Tanium Server\Apache24\conf\extra
224  C:\Program Files\Common Files\VMware\Drivers\vmci
225  C:\Program Files\Common Files\System\msadc\en-US
226  C:\Program Files\Common Files\System
227  C:\Program Files\Windows NT\Accessories\en-US
228  C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\1036_FRA_LP\x64\1036
229  C:\Program Files\Microsoft SQL Server\MSSQL11.SQLEXPRESS\MSSQL\Binn\Resources
230  C:\Program Files\Tanium\Tanium Server\plugins\console\RegistrySetting
231  C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\1046_PTB_LP\x64\1046
232  C:\Program Files\Tanium\Tanium Server\Apache24\manual\rewrite
233  C:\Program Files\VMware\VMware Tools
234  C:\Program Files\Common Files\Microsoft Shared\ink\fsdefinitions\numbers
235  C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\1049_RUS_LP\x64
236  C:\Program Files\Microsoft SQL Server\MSSQL11.SQLEXPRESS\MSSQL\Log
237  C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-09-16-20-44-23\lib
238  C:\Program Files\Windows NT\TableTextService
239  C:\Program Files\Microsoft SQL Server\MSSQL11.SQLEXPRESS\MSSQL\Binn\Resources\1055
240  C:\Program Files\Microsoft SQL Server\MSSQL11.SQLEXPRESS\MSSQL\Binn\Resources\1053
241  C:\Program Files\Microsoft SQL Server\MSSQL11.SQLEXPRESS\MSSQL\Binn\Resources\1049
242  C:\Program Files\Microsoft SQL Server\MSSQL11.SQLEXPRESS\MSSQL\Binn\Resources\1041
243  C:\Program Files\Microsoft SQL Server\MSSQL11.SQLEXPRESS\MSSQL\Binn\Resources\1040
244  C:\Program Files\Microsoft SQL Server\MSSQL11.SQLEXPRESS\MSSQL\Binn\Resources\1043
245  C:\Program Files\Microsoft SQL Server\MSSQL11.SQLEXPRESS\MSSQL\Binn\Resources\1042
246  C:\Program Files\Microsoft SQL Server\MSSQL11.SQLEXPRESS\MSSQL\Binn\Resources\1045
247  C:\Program Files\Microsoft SQL Server\MSSQL11.SQLEXPRESS\MSSQL\Binn\Resources\1044
248  C:\Program Files\Microsoft SQL Server\MSSQL11.SQLEXPRESS\MSSQL\Binn\Resources\1046
249  C:\Program Files\Microsoft SQL Server\MSSQL11.SQLEXPRESS\MSSQL\Binn\Resources\1038
250  C:\Program Files\Microsoft SQL Server\MSSQL11.SQLEXPRESS\MSSQL\Binn\Resources\1035
251  C:\Program Files\Microsoft SQL Server\MSSQL11.SQLEXPRESS\MSSQL\Binn\Resources\1036
252  C:\Program Files\Microsoft SQL Server\MSSQL11.SQLEXPRESS\MSSQL\Binn\Resources\1030
253  C:\Program Files\Microsoft SQL Server\MSSQL11.SQLEXPRESS\MSSQL\Binn\Resources\1031
254  C:\Program Files\Microsoft SQL Server\MSSQL11.SQLEXPRESS\MSSQL\Binn\Resources\1032
255  C:\Program Files\Microsoft SQL Server\MSSQL11.SQLEXPRESS\MSSQL\Binn\Resources\1033
256  C:\Program Files\Microsoft SQL Server\MSSQL11.SQLEXPRESS\MSSQL\Binn\Resources\1029
257  C:\Program Files\Microsoft SQL Server\MSSQL11.SQLEXPRESS\MSSQL\Binn\Resources\1028
258  C:\Program Files\Tanium\Tanium Server\Apache24\htdocs\console
259  C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\1042_KOR_LP\x64\1042
260  C:\Program Files\Tanium\Tanium Server\Apache24\error
261  C:\Program Files\Common Files\Microsoft Shared\ink\nb-NO
262  C:\Program Files\Tanium\Tanium Server\Apache24\manual\mod
263  C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\1041_JPN_LP\x64
264  C:\Program Files\Common Files\Microsoft Shared\ink\lv-LV
```

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265  C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-09-16-20-44-23\manual
266  C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\1033_ENU_LP\x64\1033
267  C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-09-16-20-44-23\conf\original\extra
268  C:\Program Files\Common Files\Microsoft Shared\ink\fsdefinitions\auxpad
269  C:\Program Files\Common Files\Microsoft Shared\TextConv
270  C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-09-16-20-44-23\manual\developer
271  C:\Program Files\Common Files\Microsoft Shared\MSInfo\en-US
272  C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\3082_ESN_LP\x64\3082
273  C:\Program Files\Common Files\Microsoft Shared\ink\nl-NL
274  C:\Program Files\Tanium
275  C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-11-17-11-17-33\manual\howto
276  C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-11-17-11-17-33\include
277  C:\Program Files\Reference Assemblies\Microsoft\Framework\v3.5\RedistList
278  C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\Log\20140910_112532\Datastore_LandingPage
279  C:\Program Files\Microsoft SQL Server\100\KeyFile\1033
280  C:\Program Files\Microsoft SQL Server\110\Tools\Binn\Resources\1033
281  C:\Program Files\Tanium\Tanium Server\Downloads\Cache
282  C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-11-17-11-17-33\manual\style\latex
283  C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\3082_ESN_LP
284  C:\Program Files\Tanium\Tanium Server\php55\dev
285  C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-11-17-11-17-33\bin\iconv
286  C:\Program Files\VMware\VMware Tools\messages\zh_CN
287  C:\Program Files\Tanium\Tanium Server\Apache24\manual\vhosts
288  C:\Program Files\Common Files\VMware\Drivers\vmci\sockets
289  C:\Program Files\Microsoft SQL Server\90\Shared\Resources\1033
290  C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-09-16-20-44-23\conf
291  C:\Program Files\Common Files\VMware
292  C:\Program Files\Common Files\System\msadc
293  C:\Program Files\Microsoft SQL Server\110\Tools
294  C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-11-17-11-17-33\htdocs\php
295  C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\1040_ITA_LP
296  C:\Program Files\Common Files\Microsoft Shared\ink\fr-FR
297  C:\Program Files\Common Files\VMware\Drivers\vss
298  C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-11-17-11-17-33\bin
299  C:\Program Files\Common Files\Microsoft Shared\ink\tr-TR
300  C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-11-17-11-17-33\manual\programs
301  C:\Program Files\Common Files\Microsoft Shared\VC
302  C:\Program Files\Tanium\Tanium Server\php55\ext
303  C:\Program Files\Common Files\Microsoft Shared\WF
304  C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-09-16-20-44-23\manual\ssl
305  C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-11-17-11-17-33\htdocs
306  C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-11-17-11-17-33\htdocs\console
307  C:\Program Files\Microsoft SQL Server\MSSQL11.SQLEXPRESS\MSSQL\Binn\Templates
308  C:\Program Files\Tanium\Tanium Server\plugins
309  C:\Program Files\Tanium\Tanium Server\Apache24\icons\small
310  C:\Program Files\Microsoft SQL Server\110\Shared\en
311  C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-09-16-20-44-23\htdocs\php\Auth
312  C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-09-16-20-44-23\error\include
313  C:\Program Files\Microsoft SQL Server\100\Setup Bootstrap\Release\x64\Help
314  C:\Program Files\Microsoft Help Viewer\v1.0\Microsoft Help Viewer 1.1
315  C:\Program Files\Microsoft SQL Server\110\Tools\Binn\ManagementStudio
316  C:\Program Files\Common Files\Microsoft Shared\ink\fsdefinitions\symbols
317  C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\1036_FRA_LP\x64\1036\help
318  C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-11-17-11-17-33\manual
319  C:\Program Files\Common Files\System\Ole DB\en-US
320  C:\Program Files\Microsoft SQL Server\110\Tools\Binn\ManagementStudio\Extensions
321  C:\Program Files\Microsoft SQL Server\80\Tools\Binn
322  C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\2052_CHS_LP
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323  C:\Program Files\Common Files\Microsoft Shared\ink\lt-LT
324  C:\Program Files\Microsoft SQL Server\MSSQL11.SQLEXPRESS\MSSQL\Binn
325  C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\x64
326  C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-09-16-20-44-23\htdocs
327  C:\Program Files\Microsoft SQL Server\100\KeyFile
328  C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-11-17-11-17-33\manual\style
329  C:\Program Files\Microsoft SQL Server\MSSQL11.SQLEXPRESS\MSSQL\Install
330  C:\Program Files\Common Files\Microsoft Shared\ink\et-EE
331  C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\1028_CHT_LP
332  C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\1040_ITA_LP\x64\1040
333  C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\1028_CHT_LP\x64
334  C:\Program Files\Common Files\VMware\Drivers\Virtual Printer\TPOGPS
335  C:\Program Files\Common Files\Microsoft Shared\ink\cs-CZ
336  C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\2052_CHS_LP\x64\2052\help
337  C:\Program Files\VMware
338  C:\Program Files\Microsoft SQL Server\110\Shared\VS2008
339  C:\Program Files\Microsoft Visual Studio 10.0\Common7\Packages\Debugger
340  C:\Program Files\Common Files\VMware\Drivers\mouse
341  C:\Program Files\Common Files\VMware\Drivers\vmci\sockets\bin
342  C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-09-16-20-44-23\bin\iconv
343  C:\Program Files\Common Files\Microsoft Shared\ink\en-US
344  C:\Program Files\Microsoft SQL Server\MSSQL11.SQLEXPRESS\MSSQL\Backup
345  C:\Program Files\Tanium\Tanium Server\VB
346  C:\Program Files\Microsoft SQL Server\110\DTS\ForEachEnumerators\Resources\1033
347  C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-11-17-11-17-33\manual\vhosts
348  C:\Program Files\Common Files\Microsoft Shared\ink\bg-BG
349  C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-11-17-11-17-33\manual\ssl
350  C:\Program Files\Tanium\Tanium Server\Apache24\bin
351  C:\Program Files\Common Files\System\Ole DB
352  C:\Program Files\Tanium\Tanium Server\Apache24\manual\faq
353  C:\Program Files\Microsoft SQL Server\MSSQL11.SQLEXPRESS
354  C:\Program Files\Common Files\VMware\Drivers\audio
355  C:\Program Files\Microsoft SQL Server\110\DTS\Binn\Resources
356  C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\1041_JPN_LP\x64\1041
357  C:\Program Files\Reference Assemblies\Microsoft\Framework\v3.0\RedistList
358  C:\Program Files\Tanium\Tanium Server\Downloads
359  C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\1049_RUS_LP\x64\1049\help
360  C:\Program Files\Microsoft Visual Studio 10.0\Common7\Packages\Debugger\x86
361  C:\Program Files\Microsoft Visual Studio 10.0\Common7\Packages\Debugger\X64
362  C:\Program Files\MSBuild\Microsoft\Windows Workflow Foundation
363  C:\Program Files\Microsoft SQL Server\100\Shared
364  C:\Program Files\Internet Explorer\SIGNUP
365  C:\Program Files\Common Files\Microsoft Shared\ink\es-ES
366  C:\Program Files\Tanium\Tanium Server\Support
367  C:\Program Files\Microsoft SQL Server\110\DTS\Binn
368  C:\Program Files\Common Files\Microsoft Shared\MSInfo
369  C:\Program Files\Reference Assemblies
370  C:\Program Files\Microsoft SQL Server\110\Shared\RsFxInstall
371  C:\Program Files\Microsoft Help Viewer\v1.0\CatalogInfo
372  C:\Program Files\Microsoft SQL Server\110\DTS\MappingFiles
373  C:\Program Files\Microsoft SQL Server\110\DTS\PipelineComponents\Resources
374  C:\Program Files\Common Files\Microsoft Shared\WF\amd64
375  C:\Program Files\Tanium\Tanium Server\plugins\console\SigVerifier
376  C:\Program Files\Tanium\Tanium Server\plugins\console\DashboardGroups
377  C:\Program Files\Microsoft SQL Server\80\Tools
378  C:\Program Files\Microsoft SQL Server\MSSQL11.SQLEXPRESS\MSSQL\Template Data
379  C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-09-16-20-44-23\icons
380  C:\Program Files\Common Files\Microsoft Shared\ink\de-DE
```

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381  C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\1031_DEU_LP\x64\1031
382  C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\1042_KOR_LP
383  C:\Program Files\Microsoft Visual Studio 10.0\Common7\IDE
384  C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\1033_ENU_LP\x64\1033\help
385  C:\Program Files\Common Files\Microsoft Shared\ink\fsdefinitions\main
386  C:\Program Files\Microsoft Help Viewer\v1.0\StopWords
387  C:\Program Files\Microsoft SQL Server\110\Tools\Binn\ManagementStudio\Extensions\Application
388  C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap
389  C:\Program Files\Microsoft SQL Server\MSSQL11.SQLEXPRESS\MSSQL\repldata
390  C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\x64\zh-CHT
391  C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\x64\zh-CHS
392  C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-09-16-20-44-23\manual\vhosts
393  C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\1042_KOR_LP\x64\1042\help
394  C:\Program Files\Microsoft SQL Server\110\DTS\Tasks\en
395  C:\Program Files\Common Files\SpeechEngines
396  C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-09-16-20-44-23\logs
397  C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-09-16-20-44-23\manual\mod
398  C:\Program Files\VMware\VMware Tools\Drivers\hgfs
399  C:\Program Files\Tanium\Tanium Server\Apache24\conf\original
400  C:\Program Files\Uninstall Information
401  C:\Program Files\Reference Assemblies\Microsoft\Framework\v3.5
402  C:\Program Files\Reference Assemblies\Microsoft\Framework\v3.0
403  C:\Program Files\Microsoft Visual Studio 10.0\Common7\IDE\Xml
404  C:\Program Files\Microsoft SQL Server\110\DTS\PipelineComponents
405  C:\Program Files\Microsoft SQL Server\90\Shared\Resources
406  C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\1046_PTB_LP\x64\1046\help
407  C:\Program Files\Tanium\Tanium Server\Apache24\include
408  C:\Program Files\Tanium\Tanium Server\plugins\console\GroupFiliters
409  C:\Program Files\VMware\VMware Tools\Drivers
410  C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\1041_JPN_LP\x64\1041\help
411  C:\Program Files\Tanium\Tanium Server\Downloads\tmp
412  C:\Program Files\Microsoft SQL Server\100\Setup Bootstrap\Release
413  C:\Program Files\Tanium\Tanium Server\Apache24\conf\original\extra
414  C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-11-17-11-17-33\manual\style\scripts
415  C:\Program Files\Common Files\Microsoft Shared\ink\sr-Latn-CS
416  C:\Program Files\Common Files\Microsoft Shared\ink\fsdefinitions\osknumpad
417  C:\Program Files\Microsoft SQL Server\110\License Terms
418  C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012
419  C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\1031_DEU_LP\x64
420  C:\Program Files\Common Files\VMware\Drivers\vmxnet
421  C:\Program Files\Tanium\Tanium Server\Strings
422  C:\Program Files\MSBuild
423  C:\Program Files\Microsoft SQL Server\110\COM\Resources
424  C:\Program Files\Common Files\VMware\Drivers\Virtual Printer\TPOGPS\amd64
425  C:\Program Files\Microsoft SQL Server\80\COM
426  C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-09-16-20-44-23\htdocs\console\history
427  C:\Program Files\Tanium\Tanium Server\Apache24\manual\howto
428  C:\Program Files\Microsoft SQL Server\110\Shared\Resources\1033
429  C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-09-16-20-44-23\conf\extra
430  C:\Program Files\Common Files\Microsoft Shared\MSEnv
431  C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\2052_CHS_LP\x64\2052
432  C:\Program Files\Common Files\VMware\Drivers\Virtual Printer
433  C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-11-17-11-17-33\htdocs\console\history
434  C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\1028_CHT_LP\x64\1028
435  C:\Program Files\Microsoft SQL Server\110\Shared\VS2008\1033
436  C:\Program Files\Common Files\Microsoft Shared\ink\pt-BR
437  C:\Program Files\Common Files\Microsoft Shared\ink\pt-PT
438  C:\Program Files\Common Files\System\ado
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439  C:\Program Files\Microsoft SQL Server\110\KeyFile\1033
440  C:\Program Files\Tanium\Tanium Server\SOAPUpload
441  C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\Resources\2052
442  C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\Log\20140910_112604\resources
443  C:\Program Files\Microsoft SQL Server\MSSQL11.SQLEXPRESS\MSSQL\DATA
444  C:\Program Files\Tanium\Tanium Server\php55\extras\ssl
445  C:\Program Files\Common Files\Microsoft Shared\ink\el-GR
446  C:\Program Files\VMware\VMware Tools\win32
447  C:\Program Files\VMware\VMware Tools\win64
448  C:\Program Files\Microsoft SQL Server\110\Shared\Resources
449  C:\Program Files\Internet Explorer
450  C:\Program Files\Tanium\Tanium Server\Apache24\icons
451  C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\1033_ENU_LP\x64
452  C:\Program Files\Microsoft SQL Server\MSSQL11.SQLEXPRESS\MSSQL
453  C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\1031_DEU_LP
454  C:\Program Files\Tanium\Tanium Server\Apache24\manual\programs
455  C:\Program Files\Common Files\VMware\Drivers\vmxnet3
456  C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\1049_RUS_LP
457  C:\Program Files\VMware\VMware Tools\Drivers\hgfs\wow64
458  C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\Log
459  C:\Program Files\Microsoft SQL Server\90\License Terms\1033
460  C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-11-17-11-17-33\logs
461  C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-11-17-11-17-33\manual\faq
462  C:\Program Files\Tanium\Tanium Server\Suppot_patch1
463  C:\Program Files\Common Files\Microsoft Shared\ink\fsdefinitions\web
464  C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-11-17-11-17-33\cgi-bin
465  C:\Program Files\Tanium\Tanium Server\Apache24\manual\developer
466  C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\Resources\1036
467  C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\Resources\1033
468  C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\Resources\1031
469  C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\Resources\1028
470  C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\Resources\1049
471  C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\Resources\1046
472  C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\Resources\1042
473  C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\Resources\1041
474  C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\Resources\1040
475  C:\Program Files\Microsoft SQL Server\100\Setup Bootstrap\Release\x64
476  C:\Program Files\Tanium\Tanium Server\Apache24\manual\style\latex
477  C:\Program Files\Tanium\Tanium Server
478  C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-09-16-20-44-23\htdocs\console
479  C:\Program Files\Tanium\Tanium Server\http
480  C:\Program Files\Common Files\Microsoft Shared\ink\ja-JP
481  C:\Program Files\Microsoft SQL Server\110\DTS\Packages
482  C:\Program Files\Common Files\Microsoft Shared\ink\sk-SK
483  C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-11-17-11-17-33\manual\style\css
484  C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-11-17-11-17-33\conf\original
485  C:\Program Files\Tanium\Tanium Server\Apache24\htdocs\php
486  C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-09-16-20-44-23\manual\howto
487  C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-09-16-20-44-23\manual\style\latex
488  C:\Program Files\Common Files\Microsoft Shared\ink\hr-HR
489  C:\Program Files\Common Files\VMware\Drivers
490  C:\Program Files\Tanium\Tanium Server\Apache24\lib
491  C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\Log\20140910_112532
492  C:\Program Files\Microsoft Help Viewer\v1.0
493  C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-11-17-11-17-33\conf\extra
494  C:\Program Files\Tanium\Tanium Server\Apache24
495  C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-09-16-20-44-23\manual\style\scripts
496  C:\Program Files\Common Files\Microsoft Shared\VGX
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497   C:\Program Files\Microsoft SQL Server\110\DTS\ProviderDescriptors
498   C:\Program Files\Microsoft SQL Server\110\COM\en
499   C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-09-16-20-44-23\manual\faq
500   C:\Program Files\Tanium\Tanium Server\Apache24\manual\style\scripts
501   C:\Program Files\Common Files\Microsoft Shared\Triedit\en-US
502   C:\Program Files\Microsoft SQL Server\100\Setup Bootstrap\Release\x64\Help\1033
503   C:\Program Files\Microsoft SQL Server\110\COM
504   C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\1046_PTB_LP\x64
505   C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\Log\20140910_112831\Datastore_GlobalRules
506   C:\Program Files\Common Files\Microsoft Shared\TextConv\en-US
507   C:\Program Files\VMware\VMware Tools\plugins
508   C:\Program Files\Microsoft SQL Server\110\DTS
509   C:\Program Files\Tanium\Tanium Server\plugins\console\SavedQuestions
510   C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-11-17-11-17-33\error\include
511   C:\Program Files\Common Files\System\ado\en-US
512   C:\Program Files\Tanium\Tanium Server\Apache24\cgi-bin
513   C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\Log\20140910_112604
514   C:\Program Files\VMware\VMware Tools\plugins\vmusr
515   C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\Log\20140910_112831\Datastore
516   C:\Program Files\Microsoft SQL Server\MSSQL11.SQLEXPRESS\MSSQL\Binn\DllTmp64
517   C:\Program Files\Microsoft SQL Server\MSSQL11.SQLEXPRESS\MSSQL\Binn\DllTmp32
518   C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-09-16-20-44-23\manual\programs
519   C:\Program Files\Microsoft SQL Server\110\Tools\Binn\Resources
520   C:\Program Files\Tanium\Tanium Server\php55
521   C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-09-16-20-44-23\manual\style
522   C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\1040_ITA_LP\x64
523   C:\Program Files\Reference Assemblies\Microsoft
524   C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-09-16-20-44-23\include
525   C:\Program Files\Tanium\Tanium Server\Apache24\manual\images
526   C:\Program Files\Common Files\Microsoft Shared\ink\fsdefinitions
527   C:\Program Files\Microsoft SQL Server\110\SDK\Assemblies\en
528   C:\Program Files\Tanium\Tanium Server\Logs
529   C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-11-17-11-17-33\manual\mod
530   C:\Program Files\Common Files\VMware\Drivers\Virtual Printer\TPOG3
531   C:\Program Files\Microsoft SQL Server\110
532   C:\Program Files\Microsoft SQL Server\100
533   C:\Program Files\Tanium\Tanium Server\Apache24\modules
534   C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-11-17-11-17-33\manual\platform
535   C:\Program Files\Microsoft Visual Studio 10.0
536   C:\Program Files\Microsoft SQL Server\MSSQL11.SQLEXPRESS\MSSQL\Binn\Resources\3082
537   C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\Log\20140910_112831
538   C:\Program Files\VMware\VMware Tools\plugins\common
539   C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\Log\20140910_112804
540   C:\Program Files\Common Files\Microsoft Shared\ink\th-TH
541   C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-11-17-11-17-33\icons
542   C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\Log\20140910_112831\Datastore_ComponentUpd
543   C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-11-17-11-17-33\error
544   C:\Program Files\Microsoft SQL Server
545   C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-09-16-20-44-23\error
546   C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\3082_ESN_LP\x64
547   C:\Program Files\Common Files\Microsoft Shared\SQL Debugging
548   C:\Program Files\Tanium\Tanium Server\Apache24\error\include
549   C:\Program Files\Microsoft SQL Server\110\SDK\Assemblies
550   C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\x64\Patch
551   C:\Program Files\Microsoft Help Viewer\v1.0\en
552   C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\3082_ESN_LP\x64\3082\help
553   C:\Program Files\Microsoft SQL Server\90\Shared
554   C:\Program Files\Microsoft SQL Server\MSSQL11.SQLEXPRESS\MSSQL\Binn\Resources\2052
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555   C:\Program Files\Microsoft SQL Server\MSSQL11.SQLEXPRESS\MSSQL\Binn\Resources\2070
556   C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-11-17-11-17-33\conf\original\extra
557   C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-11-17-11-17-33\manual\developer
558   C:\Program Files\Common Files\Microsoft Shared\ink\pl-PL
559   C:\Program Files\Common Files\SpeechEngines\Microsoft\TTS20\en-US\enu-dsk
560   C:\Program Files\Common Files\Microsoft Shared\Stationery
561   C:\Program Files\Common Files\Microsoft Shared\VS7Debug\1033
562   C:\Program Files\Microsoft SQL Server\100\Setup Bootstrap\Bin
563   C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\Resources
564   C:\Program Files\Microsoft SQL Server\110\Shared\ErrorDumps
565   C:\Program Files\Internet Explorer\en-US
566   C:\Program Files\VMware\VMware Tools\messages\it
567   C:\Program Files\VMware\VMware Tools\messages\ja
568   C:\Program Files\VMware\VMware Tools\messages\ko
569   C:\Program Files\VMware\VMware Tools\messages\de
570   C:\Program Files\VMware\VMware Tools\messages\es
571   C:\Program Files\VMware\VMware Tools\messages\fr
572   C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\1036_FRA_LP
573   C:\Program Files\Microsoft SQL Server\110\DTS\Tasks","0.0.0.0
574   0.0.0.0
575   0.0.0.0
576   172.16.31.2
577   0.0.0.0","172.16.31.128
578   fe80::5968:4e9d:b4fc:88ef","-
579   -
580   -
581   -
582   -","255.255.255.255
583   255.255.255.0
584   255.255.255.255
585   0.0.0.0
586   255.0.0.0","266
587   266
588   306
589   266
590   306"
```

Export resultset csv expand false

Export a ResultSet from asking a question as CSV with false for expand_grouped_columns

Example Python Code

```python
1    # Path to lib directory which contains pytan package
2    PYTAN_LIB_PATH = '../lib'
3
4    # connection info for Tanium Server
5    USERNAME = "Tanium User"
6    PASSWORD = "T@n!um"
7    HOST = "172.16.31.128"
8    PORT = "444"
9
10   # Logging conrols
11   LOGLEVEL = 2
12   DEBUGFORMAT = False
```

```
13
14  import sys, tempfile
15  sys.path.append(PYTAN_LIB_PATH)
16
17  import pytan
18  handler = pytan.Handler(
19      username=USERNAME,
20      password=PASSWORD,
21      host=HOST,
22      port=PORT,
23      loglevel=LOGLEVEL,
24      debugformat=DEBUGFORMAT,
25  )
26
27  print handler
28
29  # setup the export_obj kwargs for later
30  export_kwargs = {}
31  export_kwargs["export_format"] = u'csv'
32  export_kwargs["expand_grouped_columns"] = False
33
34  # ask the question that will provide the resultset that we want to use
35  ask_kwargs = {
36      'qtype': 'manual_human',
37      'sensors': [
38          "Computer Name", "IP Route Details", "IP Address",
39          'Folder Name Search with RegEx Match{dirname=Program Files,regex=.*Shared.*}',
40      ],
41  }
42  response = handler.ask(**ask_kwargs)
43
44  # export the object to a string
45  # (we could just as easily export to a file using export_to_report_file)
46  export_kwargs['obj'] = response['question_results']
47  export_str = handler.export_obj(**export_kwargs)
48
49
50  print ""
51  print "print the export_str returned from export_obj():"
52  print export_str
```

Output from Python Code

```
1   Handler for Session to 172.16.31.128:444, Authenticated: True, Version: 6.2.314.3258
2   2014-12-07 01:13:27,514 INFO     question_progress: Results 0% (Get Computer Name and IP Route Detai
3   2014-12-07 01:13:32,538 INFO     question_progress: Results 0% (Get Computer Name and IP Route Detai
4   2014-12-07 01:13:37,565 INFO     question_progress: Results 0% (Get Computer Name and IP Route Detai
5   2014-12-07 01:13:42,590 INFO     question_progress: Results 100% (Get Computer Name and IP Route Det
6
7   print the export_str returned from export_obj():
8   Computer Name,Destination,Flags,"Folder Name Search with RegEx Match[No, Program Files, No, ]",Gatew
9   Casus-Belli.local,"default
10  192.168.0
11  169.254
12  172.16.31/24
13  192.168.0.1/32
14  172.16.152/24
```

```
15   192.168.0.3/32","UGSc
16   UCS
17   UCS
18   UC
19   UCS
20   UC
21   UCS",Windows Only,"192.168.0.1
22   link#4
23   link#4
24   link#13
25   link#4
26   link#12
27   link#4","fe80::e896:c1c9:d927:bbe0
28   2604:2000:69e6:1a00:82e6:50ff:fe1d:1dca
29   172.16.31.1
30   fe80::82e6:50ff:fe1d:1dca
31   172.16.152.1
32   192.168.0.3
33   fe80::2886:21ff:fe7f:3ef4
34   2604:2000:69e6:1a00:95ad:5fe5:cf9e:5403
35   fd1b:56a6:50eb:cd49:e896:c1c9:d927:bbe0","en0
36   en0
37   en0
38   vmnet8
39   en0
40   vmnet1
41   en0","None
42   None
43   None
44   None
45   None
46   None
47   None","None
48   None
49   None
50   None
51   None
52   None
53   None"
54   jtanium1.localdomain,"172.16.31.128
55   172.16.31.0
56   127.0.0.1
57   0.0.0.0
58   127.0.0.0","-
59   -
60   -
61   -
62   -","C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-09-16-20-44-23\cgi-bin
63   C:\Program Files\VMware\VMware Tools\plugins\vmsvc
64   C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\1040_ITA_LP\x64\1040\help
65   C:\Program Files\Common Files\Microsoft Shared\VS7Debug
66   C:\Program Files\Tanium\Tanium Server\Apache24\manual\style
67   C:\Program Files\Tanium\Tanium Server\Apache24\htdocs\console\history
68   C:\Program Files\Common Files\VMware\Drivers\vmci\sockets\include
69   C:\Program Files\Common Files\Microsoft Shared\ink\ar-SA
70   C:\Program Files\Tanium\Tanium Server\plugins\console\Dashboards
71   C:\Program Files\Tanium\Tanium Server\CertificateBackup2014-11-17-11-17-33
72   C:\Program Files\Common Files\SpeechEngines\Microsoft
```

```
73   C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-09-16-20-44-23\modules
74   C:\Program Files\Common Files\Microsoft Shared\ink\ru-RU
75   C:\Program Files\Microsoft SQL Server\110\DTS\ForEachEnumerators\en
76   C:\Program Files\Tanium\Tanium Server\Apache24\htdocs\php\Auth
77   C:\Program Files\MSBuild\Microsoft\Windows Workflow Foundation\v3.0
78   C:\Program Files\MSBuild\Microsoft\Windows Workflow Foundation\v3.5
79   C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\2052_CHS_LP\x64
80   C:\Program Files\Common Files\Microsoft Shared\ink\fsdefinitions\keypad
81   C:\Program Files\Tanium\Tanium Server\plugins\console\InstallPlugin
82   C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\Log\20140910_112831\resources
83   C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\Bin
84   C:\Program Files\Microsoft SQL Server\110\DTS\ForEachEnumerators
85   C:\Program Files\Tanium\Tanium Server\Apache24\conf
86   C:\Program Files\MSBuild\Microsoft
87   C:\Program Files\Microsoft SQL Server\110\DTS\UpgradeMappings
88   C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-11-17-11-17-33\htdocs\php\Auth
89   C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-09-16-20-44-23\manual\style\css
90   C:\Program Files\Common Files\Microsoft Shared\ink
91   C:\Program Files\Common Files\Microsoft Shared\ink\sv-SE
92   C:\Program Files\VMware\VMware Tools\messages
93   C:\Program Files\Microsoft SQL Server\110\DTS\ForEachEnumerators\Resources
94   C:\Program Files\Common Files\Microsoft Shared\ink\uk-UA
95   C:\Program Files\Microsoft SQL Server\110\DTS\Binn\Resources\1033
96   C:\Program Files\Tanium\Tanium Server\Apache24\manual\platform
97   C:\Program Files\Microsoft SQL Server\110\KeyFile
98   C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\Resources\3082
99   C:\Program Files\Tanium\Tanium Server\CertificateBackup2014-09-16-20-44-23
100  C:\Program Files\Microsoft SQL Server\100\Setup Bootstrap\Release\x64\1033
101  C:\Program Files\Microsoft.NET\ADOMD.NET
102  C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\1028_CHT_LP\x64\1028\help
103  C:\Program Files\Common Files\Microsoft Shared\ink\sl-SI
104  C:\Program Files\Tanium\Tanium Server\plugins\console\UserGroups
105  C:\Program Files\Common Files\Microsoft Shared\ink\hu-HU
106  C:\Program Files\Common Files\System\en-US
107  C:\Program Files\Common Files\Microsoft Shared\ink\zh-TW
108  C:\Program Files\Common Files\Microsoft Shared\ink\zh-CN
109  C:\Program Files\Common Files\VMware\Drivers\video_wddm
110  C:\Program Files\Common Files\Microsoft Shared\ink\fi-FI
111  C:\Program Files\Common Files\Microsoft Shared
112  C:\Program Files\Microsoft SQL Server\110\SDK\Include
113  C:\Program Files\Common Files\Microsoft Shared\ink\da-DK
114  C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-09-16-20-44-23\icons\small
115  C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-11-17-11-17-33
116  C:\Program Files\Microsoft Visual Studio 10.0\Common7\IDE\PrivateAssemblies
117  C:\Program Files\Microsoft SQL Server\80
118  C:\Program Files\Microsoft SQL Server\90
119  C:\Program Files\Windows Mail
120  C:\Program Files\Common Files\VMware\Drivers\vmci\sockets\bin\win64
121  C:\Program Files\Common Files\VMware\Drivers\vmci\sockets\bin\win32
122  C:\Program Files\Common Files\Microsoft Shared\ink\fsdefinitions\oskmenu
123  C:\Program Files\Microsoft SQL Server\110\DTS\LogProviders
124  C:\Program Files\Microsoft SQL Server\100\Setup Bootstrap\Release\Resources\1033
125  C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\1049_RUS_LP\x64\1049
126  C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\Log\20140910_112604\Datastore_GlobalRules
127  C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-09-16-20-44-23\manual\images
128  C:\Program Files\Microsoft SQL Server\110\SDK
129  C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\1036_FRA_LP\x64
130  C:\Program Files\Windows NT\Accessories
```

```
131   C:\Program Files\Tanium\Tanium Server\content_public_keys
132   C:\Program Files\Windows NT\TableTextService\en-US
133   C:\Program Files\Tanium\Tanium Server\plugins\console\Manifest
134   C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-09-16-20-44-23\bin
135   C:\Program Files\Tanium\Tanium Server\Apache24\logs
136   C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\1033_ENU_LP
137   C:\Program Files\Tanium\Tanium Server\plugins\content
138   C:\Program Files\Reference Assemblies\Microsoft\Framework
139   C:\Program Files\Microsoft SQL Server\110\DTS\Connections\en
140   C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-11-17-11-17-33\icons\small
141   C:\Program Files\Common Files\VMware\Drivers\Virtual Printer\TPOG3\amd64
142   C:\Program Files\Microsoft Visual Studio 10.0\Common7\IDE\PrivateAssemblies\1033
143   C:\Program Files\Common Files\Microsoft Shared\ink\ko-KR
144   C:\Program Files\Tanium\Tanium Server\Apache24\manual\ssl
145   C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\1042_KOR_LP\x64
146   C:\Program Files\Tanium\Tanium Server\Apache24\manual\style\css
147   C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-11-17-11-17-33\manual\misc
148   C:\Program Files\Microsoft SQL Server\110\SDK\Lib\x64
149   C:\Program Files\Microsoft SQL Server\110\SDK\Lib\x86
150   C:\Program Files\Tanium\Tanium Server\plugins\console\lib
151   C:\Program Files\Common Files\Microsoft Shared\ink\it-IT
152   C:\Program Files\Microsoft.NET
153   C:\Program Files\Microsoft SQL Server\110\DTS\DataDumps
154   C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-11-17-11-17-33\conf
155   C:\Program Files\Internet Explorer\images
156   C:\Program Files\Windows NT
157   C:\Program Files\Microsoft SQL Server\110\COM\Resources\1033
158   C:\Program Files\Microsoft SQL Server\MSSQL11.SQLEXPRESS\MSSQL\JOBS
159   C:\Program Files\Tanium\Tanium Server\Apache24\htdocs
160   C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\1041_JPN_LP
161   C:\Program Files\Tanium\Tanium Server\php55\extras
162   C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\1031_DEU_LP\x64\1031\help
163   C:\Program Files\Microsoft SQL Server\100\Setup Bootstrap
164   C:\Program Files\Common Files\SpeechEngines\Microsoft\TTS20
165   C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-09-16-20-44-23
166   C:\Program Files\Common Files\Microsoft Shared\Triedit
167   C:\Program Files\Microsoft.NET\ADOMD.NET\110
168   C:\Program Files\Microsoft SQL Server\110\Shared
169   C:\Program Files\Microsoft SQL Server\110\Tools\Binn
170   C:\Program Files\Microsoft Help Viewer
171   C:\Program Files\Microsoft SQL Server\100\Setup Bootstrap\Release\x64\Patch
172   C:\Program Files\Tanium\Tanium Server\Apache24\bin\iconv
173   C:\Program Files\Common Files\VMware\Drivers\memctl
174   C:\Program Files\Tanium\Tanium Server\plugins\console
175   C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-09-16-20-44-23\conf\original
176   C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-09-16-20-44-23\htdocs\php
177   C:\Program Files\Microsoft SQL Server\90\License Terms
178   C:\Program Files\Microsoft SQL Server\100\Setup Bootstrap\Release\Resources
179   C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\x64\pt
180   C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\x64\ru
181   C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-11-17-11-17-33\lib
182   C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\x64\it
183   C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\x64\ko
184   C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\x64\ja
185   C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\x64\es
186   C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\x64\de
187   C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\x64\fr
188   C:\Program Files\Common Files\Microsoft Shared\ink\he-IL
```

```
189   C:\Program Files\Common Files\Microsoft Shared\ink\ro-RO
190   C:\Program Files\Common Files\VMware\Drivers\pvscsi
191   C:\Program Files\Microsoft Visual Studio 10.0\Common7\Packages
192   C:\Program Files\Microsoft Visual Studio 10.0\Common7
193   C:\Program Files\Common Files\Services
194   C:\Program Files\Common Files\Microsoft Shared\ink\fsdefinitions\oskpred
195   C:\Program Files\Microsoft SQL Server\110\SDK\Lib
196   C:\Program Files\Microsoft SQL Server\110\DTS\PipelineComponents\Resources\1033
197   C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-09-16-20-44-23\manual\misc
198   C:\Program Files\Tanium\Tanium Server\Apache24\manual\misc
199   C:\Program Files\Common Files\SpeechEngines\Microsoft\TTS20\en-US
200   C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-11-17-11-17-33\modules
201   C:\Program Files\Microsoft SQL Server\110\DTS\Connections
202   C:\Program Files\Tanium\Tanium Server\Downloads\URLCache
203   C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\1046_PTB_LP
204   C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-09-16-20-44-23\manual\rewrite
205   C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-11-17-11-17-33\manual\images
206   C:\Program Files\Common Files\VMware\Drivers\vmci\device
207   C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-11-17-11-17-33\manual\rewrite
208   C:\Program Files\Common Files
209   C:\Program Files\Tanium\Tanium Server\Apache24\manual
210   C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-09-16-20-44-23\manual\platform
211   C:\Program Files\Tanium\Tanium Server\Apache24\conf\extra
212   C:\Program Files\Common Files\VMware\Drivers\vmci
213   C:\Program Files\Common Files\System\msadc\en-US
214   C:\Program Files\Common Files\System
215   C:\Program Files\Windows NT\Accessories\en-US
216   C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\1036_FRA_LP\x64\1036
217   C:\Program Files\Microsoft SQL Server\MSSQL11.SQLEXPRESS\MSSQL\Binn\Resources
218   C:\Program Files\Tanium\Tanium Server\plugins\console\RegistrySetting
219   C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\1046_PTB_LP\x64\1046
220   C:\Program Files\Tanium\Tanium Server\Apache24\manual\rewrite
221   C:\Program Files\VMware\VMware Tools
222   C:\Program Files\Common Files\Microsoft Shared\ink\fsdefinitions\numbers
223   C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\1049_RUS_LP\x64
224   C:\Program Files\Microsoft SQL Server\MSSQL11.SQLEXPRESS\MSSQL\Log
225   C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-09-16-20-44-23\lib
226   C:\Program Files\Windows NT\TableTextService
227   C:\Program Files\Microsoft SQL Server\MSSQL11.SQLEXPRESS\MSSQL\Binn\Resources\1055
228   C:\Program Files\Microsoft SQL Server\MSSQL11.SQLEXPRESS\MSSQL\Binn\Resources\1053
229   C:\Program Files\Microsoft SQL Server\MSSQL11.SQLEXPRESS\MSSQL\Binn\Resources\1049
230   C:\Program Files\Microsoft SQL Server\MSSQL11.SQLEXPRESS\MSSQL\Binn\Resources\1041
231   C:\Program Files\Microsoft SQL Server\MSSQL11.SQLEXPRESS\MSSQL\Binn\Resources\1040
232   C:\Program Files\Microsoft SQL Server\MSSQL11.SQLEXPRESS\MSSQL\Binn\Resources\1043
233   C:\Program Files\Microsoft SQL Server\MSSQL11.SQLEXPRESS\MSSQL\Binn\Resources\1042
234   C:\Program Files\Microsoft SQL Server\MSSQL11.SQLEXPRESS\MSSQL\Binn\Resources\1045
235   C:\Program Files\Microsoft SQL Server\MSSQL11.SQLEXPRESS\MSSQL\Binn\Resources\1044
236   C:\Program Files\Microsoft SQL Server\MSSQL11.SQLEXPRESS\MSSQL\Binn\Resources\1046
237   C:\Program Files\Microsoft SQL Server\MSSQL11.SQLEXPRESS\MSSQL\Binn\Resources\1038
238   C:\Program Files\Microsoft SQL Server\MSSQL11.SQLEXPRESS\MSSQL\Binn\Resources\1035
239   C:\Program Files\Microsoft SQL Server\MSSQL11.SQLEXPRESS\MSSQL\Binn\Resources\1036
240   C:\Program Files\Microsoft SQL Server\MSSQL11.SQLEXPRESS\MSSQL\Binn\Resources\1030
241   C:\Program Files\Microsoft SQL Server\MSSQL11.SQLEXPRESS\MSSQL\Binn\Resources\1031
242   C:\Program Files\Microsoft SQL Server\MSSQL11.SQLEXPRESS\MSSQL\Binn\Resources\1032
243   C:\Program Files\Microsoft SQL Server\MSSQL11.SQLEXPRESS\MSSQL\Binn\Resources\1033
244   C:\Program Files\Microsoft SQL Server\MSSQL11.SQLEXPRESS\MSSQL\Binn\Resources\1029
245   C:\Program Files\Microsoft SQL Server\MSSQL11.SQLEXPRESS\MSSQL\Binn\Resources\1028
246   C:\Program Files\Tanium\Tanium Server\Apache24\htdocs\console
```

```
247  C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\1042_KOR_LP\x64\1042
248  C:\Program Files\Tanium\Tanium Server\Apache24\error
249  C:\Program Files\Common Files\Microsoft Shared\ink\nb-NO
250  C:\Program Files\Tanium\Tanium Server\Apache24\manual\mod
251  C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\1041_JPN_LP\x64
252  C:\Program Files\Common Files\Microsoft Shared\ink\lv-LV
253  C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-09-16-20-44-23\manual
254  C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\1033_ENU_LP\x64\1033
255  C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-09-16-20-44-23\conf\original\extra
256  C:\Program Files\Common Files\Microsoft Shared\ink\fsdefinitions\auxpad
257  C:\Program Files\Common Files\Microsoft Shared\TextConv
258  C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-09-16-20-44-23\manual\developer
259  C:\Program Files\Common Files\Microsoft Shared\MSInfo\en-US
260  C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\3082_ESN_LP\x64\3082
261  C:\Program Files\Common Files\Microsoft Shared\ink\nl-NL
262  C:\Program Files\Tanium
263  C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-11-17-11-17-33\manual\howto
264  C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-11-17-11-17-33\include
265  C:\Program Files\Reference Assemblies\Microsoft\Framework\v3.5\RedistList
266  C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\Log\20140910_112532\Datastore_LandingPage
267  C:\Program Files\Microsoft SQL Server\100\KeyFile\1033
268  C:\Program Files\Microsoft SQL Server\110\Tools\Binn\Resources\1033
269  C:\Program Files\Tanium\Tanium Server\Downloads\Cache
270  C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-11-17-11-17-33\manual\style\latex
271  C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\3082_ESN_LP
272  C:\Program Files\Tanium\Tanium Server\php55\dev
273  C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-11-17-11-17-33\bin\iconv
274  C:\Program Files\VMware\VMware Tools\messages\zh_CN
275  C:\Program Files\Tanium\Tanium Server\Apache24\manual\vhosts
276  C:\Program Files\Common Files\VMware\Drivers\vmci\sockets
277  C:\Program Files\Microsoft SQL Server\90\Shared\Resources\1033
278  C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-09-16-20-44-23\conf
279  C:\Program Files\Common Files\VMware
280  C:\Program Files\Common Files\System\msadc
281  C:\Program Files\Microsoft SQL Server\110\Tools
282  C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-11-17-11-17-33\htdocs\php
283  C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\1040_ITA_LP
284  C:\Program Files\Common Files\Microsoft Shared\ink\fr-FR
285  C:\Program Files\Common Files\VMware\Drivers\vss
286  C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-11-17-11-17-33\bin
287  C:\Program Files\Common Files\Microsoft Shared\ink\tr-TR
288  C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-11-17-11-17-33\manual\programs
289  C:\Program Files\Common Files\Microsoft Shared\VC
290  C:\Program Files\Tanium\Tanium Server\php55\ext
291  C:\Program Files\Common Files\Microsoft Shared\WF
292  C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-09-16-20-44-23\manual\ssl
293  C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-11-17-11-17-33\htdocs
294  C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-11-17-11-17-33\htdocs\console
295  C:\Program Files\Microsoft SQL Server\MSSQL11.SQLEXPRESS\MSSQL\Binn\Templates
296  C:\Program Files\Tanium\Tanium Server\plugins
297  C:\Program Files\Tanium\Tanium Server\Apache24\icons\small
298  C:\Program Files\Microsoft SQL Server\110\Shared\en
299  C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-09-16-20-44-23\htdocs\php\Auth
300  C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-09-16-20-44-23\error\include
301  C:\Program Files\Microsoft SQL Server\100\Setup Bootstrap\Release\x64\Help
302  C:\Program Files\Microsoft Help Viewer\v1.0\Microsoft Help Viewer 1.1
303  C:\Program Files\Microsoft SQL Server\110\Tools\Binn\ManagementStudio
304  C:\Program Files\Common Files\Microsoft Shared\ink\fsdefinitions\symbols
```

```
305  C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\1036_FRA_LP\x64\1036\help
306  C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-11-17-11-17-33\manual
307  C:\Program Files\Common Files\System\Ole DB\en-US
308  C:\Program Files\Microsoft SQL Server\110\Tools\Binn\ManagementStudio\Extensions
309  C:\Program Files\Microsoft SQL Server\80\Tools\Binn
310  C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\2052_CHS_LP
311  C:\Program Files\Common Files\Microsoft Shared\ink\lt-LT
312  C:\Program Files\Microsoft SQL Server\MSSQL11.SQLEXPRESS\MSSQL\Binn
313  C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\x64
314  C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-09-16-20-44-23\htdocs
315  C:\Program Files\Microsoft SQL Server\100\KeyFile
316  C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-11-17-11-17-33\manual\style
317  C:\Program Files\Microsoft SQL Server\MSSQL11.SQLEXPRESS\MSSQL\Install
318  C:\Program Files\Common Files\Microsoft Shared\ink\et-EE
319  C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\1028_CHT_LP
320  C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\1040_ITA_LP\x64\1040
321  C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\1028_CHT_LP\x64
322  C:\Program Files\Common Files\VMware\Drivers\Virtual Printer\TPOGPS
323  C:\Program Files\Common Files\Microsoft Shared\ink\cs-CZ
324  C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\2052_CHS_LP\x64\2052\help
325  C:\Program Files\VMware
326  C:\Program Files\Microsoft SQL Server\110\Shared\VS2008
327  C:\Program Files\Microsoft Visual Studio 10.0\Common7\Packages\Debugger
328  C:\Program Files\Common Files\VMware\Drivers\mouse
329  C:\Program Files\Common Files\VMware\Drivers\vmci\sockets\bin
330  C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-09-16-20-44-23\bin\iconv
331  C:\Program Files\Common Files\Microsoft Shared\ink\en-US
332  C:\Program Files\Microsoft SQL Server\MSSQL11.SQLEXPRESS\MSSQL\Backup
333  C:\Program Files\Tanium\Tanium Server\VB
334  C:\Program Files\Microsoft SQL Server\110\DTS\ForEachEnumerators\Resources\1033
335  C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-11-17-11-17-33\manual\vhosts
336  C:\Program Files\Common Files\Microsoft Shared\ink\bg-BG
337  C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-11-17-11-17-33\manual\ssl
338  C:\Program Files\Tanium\Tanium Server\Apache24\bin
339  C:\Program Files\Common Files\System\Ole DB
340  C:\Program Files\Tanium\Tanium Server\Apache24\manual\faq
341  C:\Program Files\Microsoft SQL Server\MSSQL11.SQLEXPRESS
342  C:\Program Files\Common Files\VMware\Drivers\audio
343  C:\Program Files\Microsoft SQL Server\110\DTS\Binn\Resources
344  C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\1041_JPN_LP\x64\1041
345  C:\Program Files\Reference Assemblies\Microsoft\Framework\v3.0\RedistList
346  C:\Program Files\Tanium\Tanium Server\Downloads
347  C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\1049_RUS_LP\x64\1049\help
348  C:\Program Files\Microsoft Visual Studio 10.0\Common7\Packages\Debugger\x86
349  C:\Program Files\Microsoft Visual Studio 10.0\Common7\Packages\Debugger\X64
350  C:\Program Files\MSBuild\Microsoft\Windows Workflow Foundation
351  C:\Program Files\Microsoft SQL Server\100\Shared
352  C:\Program Files\Internet Explorer\SIGNUP
353  C:\Program Files\Common Files\Microsoft Shared\ink\es-ES
354  C:\Program Files\Tanium\Tanium Server\Support
355  C:\Program Files\Microsoft SQL Server\110\DTS\Binn
356  C:\Program Files\Common Files\Microsoft Shared\MSInfo
357  C:\Program Files\Reference Assemblies
358  C:\Program Files\Microsoft SQL Server\110\Shared\RsFxInstall
359  C:\Program Files\Microsoft Help Viewer\v1.0\CatalogInfo
360  C:\Program Files\Microsoft SQL Server\110\DTS\MappingFiles
361  C:\Program Files\Microsoft SQL Server\110\DTS\PipelineComponents\Resources
362  C:\Program Files\Common Files\Microsoft Shared\WF\amd64
```

```
363  C:\Program Files\Tanium\Tanium Server\plugins\console\SigVerifier
364  C:\Program Files\Tanium\Tanium Server\plugins\console\DashboardGroups
365  C:\Program Files\Microsoft SQL Server\80\Tools
366  C:\Program Files\Microsoft SQL Server\MSSQL11.SQLEXPRESS\MSSQL\Template Data
367  C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-09-16-20-44-23\icons
368  C:\Program Files\Common Files\Microsoft Shared\ink\de-DE
369  C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\1031_DEU_LP\x64\1031
370  C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\1042_KOR_LP
371  C:\Program Files\Microsoft Visual Studio 10.0\Common7\IDE
372  C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\1033_ENU_LP\x64\1033\help
373  C:\Program Files\Common Files\Microsoft Shared\ink\fsdefinitions\main
374  C:\Program Files\Microsoft Help Viewer\v1.0\StopWords
375  C:\Program Files\Microsoft SQL Server\110\Tools\Binn\ManagementStudio\Extensions\Application
376  C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap
377  C:\Program Files\Microsoft SQL Server\MSSQL11.SQLEXPRESS\MSSQL\repldata
378  C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\x64\zh-CHT
379  C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\x64\zh-CHS
380  C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-09-16-20-44-23\manual\vhosts
381  C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\1042_KOR_LP\x64\1042\help
382  C:\Program Files\Microsoft SQL Server\110\DTS\Tasks\en
383  C:\Program Files\Common Files\SpeechEngines
384  C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-09-16-20-44-23\logs
385  C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-09-16-20-44-23\manual\mod
386  C:\Program Files\VMware\VMware Tools\Drivers\hgfs
387  C:\Program Files\Tanium\Tanium Server\Apache24\conf\original
388  C:\Program Files\Uninstall Information
389  C:\Program Files\Reference Assemblies\Microsoft\Framework\v3.5
390  C:\Program Files\Reference Assemblies\Microsoft\Framework\v3.0
391  C:\Program Files\Microsoft Visual Studio 10.0\Common7\IDE\Xml
392  C:\Program Files\Microsoft SQL Server\110\DTS\PipelineComponents
393  C:\Program Files\Microsoft SQL Server\90\Shared\Resources
394  C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\1046_PTB_LP\x64\1046\help
395  C:\Program Files\Tanium\Tanium Server\Apache24\include
396  C:\Program Files\Tanium\Tanium Server\plugins\console\GroupFiliters
397  C:\Program Files\VMware\VMware Tools\Drivers
398  C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\1041_JPN_LP\x64\1041\help
399  C:\Program Files\Tanium\Tanium Server\Downloads\tmp
400  C:\Program Files\Microsoft SQL Server\100\Setup Bootstrap\Release
401  C:\Program Files\Tanium\Tanium Server\Apache24\conf\original\extra
402  C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-11-17-11-17-33\manual\style\scripts
403  C:\Program Files\Common Files\Microsoft Shared\ink\sr-Latn-CS
404  C:\Program Files\Common Files\Microsoft Shared\ink\fsdefinitions\osknumpad
405  C:\Program Files\Microsoft SQL Server\110\License Terms
406  C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012
407  C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\1031_DEU_LP\x64
408  C:\Program Files\Common Files\VMware\Drivers\vmxnet
409  C:\Program Files\Tanium\Tanium Server\Strings
410  C:\Program Files\MSBuild
411  C:\Program Files\Microsoft SQL Server\110\COM\Resources
412  C:\Program Files\Common Files\VMware\Drivers\Virtual Printer\TPOGPS\amd64
413  C:\Program Files\Microsoft SQL Server\80\COM
414  C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-09-16-20-44-23\htdocs\console\history
415  C:\Program Files\Tanium\Tanium Server\Apache24\manual\howto
416  C:\Program Files\Microsoft SQL Server\110\Shared\Resources\1033
417  C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-09-16-20-44-23\conf\extra
418  C:\Program Files\Common Files\Microsoft Shared\MSEnv
419  C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\2052_CHS_LP\x64\2052
420  C:\Program Files\Common Files\VMware\Drivers\Virtual Printer
```

```
421   C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-11-17-11-17-33\htdocs\console\history
422   C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\1028_CHT_LP\x64\1028
423   C:\Program Files\Microsoft SQL Server\110\Shared\VS2008\1033
424   C:\Program Files\Common Files\Microsoft Shared\ink\pt-BR
425   C:\Program Files\Common Files\Microsoft Shared\ink\pt-PT
426   C:\Program Files\Common Files\System\ado
427   C:\Program Files\Microsoft SQL Server\110\KeyFile\1033
428   C:\Program Files\Tanium\Tanium Server\SOAPUpload
429   C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\Resources\2052
430   C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\Log\20140910_112604\resources
431   C:\Program Files\Microsoft SQL Server\MSSQL11.SQLEXPRESS\MSSQL\DATA
432   C:\Program Files\Tanium\Tanium Server\php55\extras\ssl
433   C:\Program Files\Common Files\Microsoft Shared\ink\el-GR
434   C:\Program Files\VMware\VMware Tools\win32
435   C:\Program Files\VMware\VMware Tools\win64
436   C:\Program Files\Microsoft SQL Server\110\Shared\Resources
437   C:\Program Files\Internet Explorer
438   C:\Program Files\Tanium\Tanium Server\Apache24\icons
439   C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\1033_ENU_LP\x64
440   C:\Program Files\Microsoft SQL Server\MSSQL11.SQLEXPRESS\MSSQL
441   C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\1031_DEU_LP
442   C:\Program Files\Tanium\Tanium Server\Apache24\manual\programs
443   C:\Program Files\Common Files\VMware\Drivers\vmxnet3
444   C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\1049_RUS_LP
445   C:\Program Files\VMware\VMware Tools\Drivers\hgfs\wow64
446   C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\Log
447   C:\Program Files\Microsoft SQL Server\90\License Terms\1033
448   C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-11-17-11-17-33\logs
449   C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-11-17-11-17-33\manual\faq
450   C:\Program Files\Tanium\Tanium Server\Suppot_patch1
451   C:\Program Files\Common Files\Microsoft Shared\ink\fsdefinitions\web
452   C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-11-17-11-17-33\cgi-bin
453   C:\Program Files\Tanium\Tanium Server\Apache24\manual\developer
454   C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\Resources\1036
455   C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\Resources\1033
456   C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\Resources\1031
457   C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\Resources\1028
458   C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\Resources\1049
459   C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\Resources\1046
460   C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\Resources\1042
461   C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\Resources\1041
462   C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\Resources\1040
463   C:\Program Files\Microsoft SQL Server\100\Setup Bootstrap\Release\x64
464   C:\Program Files\Tanium\Tanium Server\Apache24\manual\style\latex
465   C:\Program Files\Tanium\Tanium Server
466   C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-09-16-20-44-23\htdocs\console
467   C:\Program Files\Tanium\Tanium Server\http
468   C:\Program Files\Common Files\Microsoft Shared\ink\ja-JP
469   C:\Program Files\Microsoft SQL Server\110\DTS\Packages
470   C:\Program Files\Common Files\Microsoft Shared\ink\sk-SK
471   C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-11-17-11-17-33\manual\style\css
472   C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-11-17-11-17-33\conf\original
473   C:\Program Files\Tanium\Tanium Server\Apache24\htdocs\php
474   C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-09-16-20-44-23\manual\howto
475   C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-09-16-20-44-23\manual\style\latex
476   C:\Program Files\Common Files\Microsoft Shared\ink\hr-HR
477   C:\Program Files\Common Files\VMware\Drivers
478   C:\Program Files\Tanium\Tanium Server\Apache24\lib
```

```
479   C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\Log\20140910_112532
480   C:\Program Files\Microsoft Help Viewer\v1.0
481   C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-11-17-11-17-33\conf\extra
482   C:\Program Files\Tanium\Tanium Server\Apache24
483   C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-09-16-20-44-23\manual\style\scripts
484   C:\Program Files\Common Files\Microsoft Shared\VGX
485   C:\Program Files\Microsoft SQL Server\110\DTS\ProviderDescriptors
486   C:\Program Files\Microsoft SQL Server\110\COM\en
487   C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-09-16-20-44-23\manual\faq
488   C:\Program Files\Tanium\Tanium Server\Apache24\manual\style\scripts
489   C:\Program Files\Common Files\Microsoft Shared\Triedit\en-US
490   C:\Program Files\Microsoft SQL Server\100\Setup Bootstrap\Release\x64\Help\1033
491   C:\Program Files\Microsoft SQL Server\110\COM
492   C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\1046_PTB_LP\x64
493   C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\Log\20140910_112831\Datastore_GlobalRules
494   C:\Program Files\Common Files\Microsoft Shared\TextConv\en-US
495   C:\Program Files\VMware\VMware Tools\plugins
496   C:\Program Files\Microsoft SQL Server\110\DTS
497   C:\Program Files\Tanium\Tanium Server\plugins\console\SavedQuestions
498   C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-11-17-11-17-33\error\include
499   C:\Program Files\Common Files\System\ado\en-US
500   C:\Program Files\Tanium\Tanium Server\Apache24\cgi-bin
501   C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\Log\20140910_112604
502   C:\Program Files\VMware\VMware Tools\plugins\vmusr
503   C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\Log\20140910_112831\Datastore
504   C:\Program Files\Microsoft SQL Server\MSSQL11.SQLEXPRESS\MSSQL\Binn\DllTmp64
505   C:\Program Files\Microsoft SQL Server\MSSQL11.SQLEXPRESS\MSSQL\Binn\DllTmp32
506   C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-09-16-20-44-23\manual\programs
507   C:\Program Files\Microsoft SQL Server\110\Tools\Binn\Resources
508   C:\Program Files\Tanium\Tanium Server\php55
509   C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-09-16-20-44-23\manual\style
510   C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\1040_ITA_LP\x64
511   C:\Program Files\Reference Assemblies\Microsoft
512   C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-09-16-20-44-23\include
513   C:\Program Files\Tanium\Tanium Server\Apache24\manual\images
514   C:\Program Files\Common Files\Microsoft Shared\ink\fsdefinitions
515   C:\Program Files\Microsoft SQL Server\110\SDK\Assemblies\en
516   C:\Program Files\Tanium\Tanium Server\Logs
517   C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-11-17-11-17-33\manual\mod
518   C:\Program Files\Common Files\VMware\Drivers\Virtual Printer\TPOG3
519   C:\Program Files\Microsoft SQL Server\110
520   C:\Program Files\Microsoft SQL Server\100
521   C:\Program Files\Tanium\Tanium Server\Apache24\modules
522   C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-11-17-11-17-33\manual\platform
523   C:\Program Files\Microsoft Visual Studio 10.0
524   C:\Program Files\Microsoft SQL Server\MSSQL11.SQLEXPRESS\MSSQL\Binn\Resources\3082
525   C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\Log\20140910_112831
526   C:\Program Files\VMware\VMware Tools\plugins\common
527   C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\Log\20140910_112804
528   C:\Program Files\Common Files\Microsoft Shared\ink\th-TH
529   C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-11-17-11-17-33\icons
530   C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\Log\20140910_112831\Datastore_ComponentUpd
531   C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-11-17-11-17-33\error
532   C:\Program Files\Microsoft SQL Server
533   C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-09-16-20-44-23\error
534   C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\3082_ESN_LP\x64
535   C:\Program Files\Common Files\Microsoft Shared\SQL Debugging
536   C:\Program Files\Tanium\Tanium Server\Apache24\error\include
```

```
537   C:\Program Files\Microsoft SQL Server\110\SDK\Assemblies
538   C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\x64\Patch
539   C:\Program Files\Microsoft Help Viewer\v1.0\en
540   C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\3082_ESN_LP\x64\3082\help
541   C:\Program Files\Microsoft SQL Server\90\Shared
542   C:\Program Files\Microsoft SQL Server\MSSQL11.SQLEXPRESS\MSSQL\Binn\Resources\2052
543   C:\Program Files\Microsoft SQL Server\MSSQL11.SQLEXPRESS\MSSQL\Binn\Resources\2070
544   C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-11-17-11-17-33\conf\original\extra
545   C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-11-17-11-17-33\manual\developer
546   C:\Program Files\Common Files\Microsoft Shared\ink\pl-PL
547   C:\Program Files\Common Files\SpeechEngines\Microsoft\TTS20\en-US\enu-dsk
548   C:\Program Files\Common Files\Microsoft Shared\Stationery
549   C:\Program Files\Common Files\Microsoft Shared\VS7Debug\1033
550   C:\Program Files\Microsoft SQL Server\100\Setup Bootstrap\Bin
551   C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\Resources
552   C:\Program Files\Microsoft SQL Server\110\Shared\ErrorDumps
553   C:\Program Files\Internet Explorer\en-US
554   C:\Program Files\VMware\VMware Tools\messages\it
555   C:\Program Files\VMware\VMware Tools\messages\ja
556   C:\Program Files\VMware\VMware Tools\messages\ko
557   C:\Program Files\VMware\VMware Tools\messages\de
558   C:\Program Files\VMware\VMware Tools\messages\es
559   C:\Program Files\VMware\VMware Tools\messages\fr
560   C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\1036_FRA_LP
561   C:\Program Files\Microsoft SQL Server\110\DTS\Tasks","0.0.0.0
562   0.0.0.0
563   0.0.0.0
564   172.16.31.2
565   0.0.0.0","172.16.31.128
566   fe80::5968:4e9d:b4fc:88ef","-
567   -
568   -
569   -
570   -","255.255.255.255
571   255.255.255.0
572   255.255.255.255
573   0.0.0.0
574   255.0.0.0","266
575   266
576   306
577   266
578   306"
```

Export resultset csv expand true

Export a ResultSet from asking a question as CSV with true for expand_grouped_columns

Example Python Code

```
1   # Path to lib directory which contains pytan package
2   PYTAN_LIB_PATH = '../lib'
3
4   # connection info for Tanium Server
5   USERNAME = "Tanium User"
6   PASSWORD = "T@n!um"
```

```
7   HOST = "172.16.31.128"
8   PORT = "444"
9
10  # Logging conrols
11  LOGLEVEL = 2
12  DEBUGFORMAT = False
13
14  import sys, tempfile
15  sys.path.append(PYTAN_LIB_PATH)
16
17  import pytan
18  handler = pytan.Handler(
19      username=USERNAME,
20      password=PASSWORD,
21      host=HOST,
22      port=PORT,
23      loglevel=LOGLEVEL,
24      debugformat=DEBUGFORMAT,
25  )
26
27  print handler
28
29  # setup the export_obj kwargs for later
30  export_kwargs = {}
31  export_kwargs["export_format"] = u'csv'
32  export_kwargs["expand_grouped_columns"] = True
33
34  # ask the question that will provide the resultset that we want to use
35  ask_kwargs = {
36      'qtype': 'manual_human',
37      'sensors': [
38          "Computer Name", "IP Route Details", "IP Address",
39          'Folder Name Search with RegEx Match{dirname=Program Files,regex=.*Shared.*}',
40      ],
41  }
42  response = handler.ask(**ask_kwargs)
43
44  # export the object to a string
45  # (we could just as easily export to a file using export_to_report_file)
46  export_kwargs['obj'] = response['question_results']
47  export_str = handler.export_obj(**export_kwargs)
48
49
50  print ""
51  print "print the export_str returned from export_obj():"
52  print export_str
```

Output from Python Code

```
1   Handler for Session to 172.16.31.128:444, Authenticated: True, Version: 6.2.314.3258
2   2014-12-07 01:13:42,750 INFO     question_progress: Results 0% (Get Computer Name and IP Route Detai
3   2014-12-07 01:13:47,775 INFO     question_progress: Results 0% (Get Computer Name and IP Route Detai
4   2014-12-07 01:13:52,802 INFO     question_progress: Results 0% (Get Computer Name and IP Route Detai
5   2014-12-07 01:13:57,832 INFO     question_progress: Results 0% (Get Computer Name and IP Route Detai
6   2014-12-07 01:14:02,858 INFO     question_progress: Results 0% (Get Computer Name and IP Route Detai
7   2014-12-07 01:14:07,880 INFO     question_progress: Results 0% (Get Computer Name and IP Route Detai
8   2014-12-07 01:14:12,913 INFO     question_progress: Results 0% (Get Computer Name and IP Route Detai
```

```
 9   2014-12-07 01:14:17,938 INFO      question_progress: Results 0% (Get Computer Name and IP Route Detai
10   2014-12-07 01:14:22,963 INFO      question_progress: Results 0% (Get Computer Name and IP Route Detai
11   2014-12-07 01:14:27,985 INFO      question_progress: Results 0% (Get Computer Name and IP Route Detai
12   2014-12-07 01:14:33,013 INFO      question_progress: Results 0% (Get Computer Name and IP Route Detai
13   2014-12-07 01:14:38,040 INFO      question_progress: Results 0% (Get Computer Name and IP Route Detai
14   2014-12-07 01:14:43,065 INFO      question_progress: Results 0% (Get Computer Name and IP Route Detai
15   2014-12-07 01:14:48,093 INFO      question_progress: Results 0% (Get Computer Name and IP Route Detai
16   2014-12-07 01:14:53,119 INFO      question_progress: Results 0% (Get Computer Name and IP Route Detai
17   2014-12-07 01:14:58,153 INFO      question_progress: Results 0% (Get Computer Name and IP Route Detai
18   2014-12-07 01:15:03,179 INFO      question_progress: Results 100% (Get Computer Name and IP Route Det
19
20   print the export_str returned from export_obj():
21   Computer Name,Destination,Flags,"Folder Name Search with RegEx Match[No, Program Files, No, ]",Gatew
22   Casus-Belli.local,default,UGSc,Windows Only,192.168.0.1,UNRELATED TO Destination,en0,None,None
23   Casus-Belli.local,192.168.0,UCS,Windows Only,link#4,UNRELATED TO Destination,en0,None,None
24   Casus-Belli.local,169.254,UCS,Windows Only,link#4,UNRELATED TO Destination,en0,None,None
25   Casus-Belli.local,172.16.31/24,UC,Windows Only,link#13,UNRELATED TO Destination,vmnet8,None,None
26   Casus-Belli.local,192.168.0.1/32,UCS,Windows Only,link#4,UNRELATED TO Destination,en0,None,None
27   Casus-Belli.local,172.16.152/24,UC,Windows Only,link#12,UNRELATED TO Destination,vmnet1,None,None
28   Casus-Belli.local,192.168.0.3/32,UCS,Windows Only,link#4,UNRELATED TO Destination,en0,None,None
29   Casus-Belli.local,UNRELATED TO IP Address,UNRELATED TO IP Address,Windows Only,UNRELATED TO IP Addre
30   Casus-Belli.local,UNRELATED TO IP Address,UNRELATED TO IP Address,Windows Only,UNRELATED TO IP Addre
31   Casus-Belli.local,UNRELATED TO IP Address,UNRELATED TO IP Address,Windows Only,UNRELATED TO IP Addre
32   Casus-Belli.local,UNRELATED TO IP Address,UNRELATED TO IP Address,Windows Only,UNRELATED TO IP Addre
33   Casus-Belli.local,UNRELATED TO IP Address,UNRELATED TO IP Address,Windows Only,UNRELATED TO IP Addre
34   Casus-Belli.local,UNRELATED TO IP Address,UNRELATED TO IP Address,Windows Only,UNRELATED TO IP Addre
35   Casus-Belli.local,UNRELATED TO IP Address,UNRELATED TO IP Address,Windows Only,UNRELATED TO IP Addre
36   Casus-Belli.local,UNRELATED TO IP Address,UNRELATED TO IP Address,Windows Only,UNRELATED TO IP Addre
37   Casus-Belli.local,UNRELATED TO IP Address,UNRELATED TO IP Address,Windows Only,UNRELATED TO IP Addre
38   jtanium1.localdomain,172.16.31.128,-,UNRELATED TO Destination,0.0.0.0,UNRELATED TO Destination,-,255
39   jtanium1.localdomain,172.16.31.0,-,UNRELATED TO Destination,0.0.0.0,UNRELATED TO Destination,-,255.2
40   jtanium1.localdomain,127.0.0.1,-,UNRELATED TO Destination,0.0.0.0,UNRELATED TO Destination,-,255.255
41   jtanium1.localdomain,0.0.0.0,-,UNRELATED TO Destination,172.16.31.2,UNRELATED TO Destination,-,0.0.0
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500   jtanium1.localdomain,"UNRELATED TO Folder Name Search with RegEx Match[No, Program Files, No, ]","UN
501   jtanium1.localdomain,"UNRELATED TO Folder Name Search with RegEx Match[No, Program Files, No, ]","UN
502   jtanium1.localdomain,"UNRELATED TO Folder Name Search with RegEx Match[No, Program Files, No, ]","UN
503   jtanium1.localdomain,"UNRELATED TO Folder Name Search with RegEx Match[No, Program Files, No, ]","UN
504   jtanium1.localdomain,"UNRELATED TO Folder Name Search with RegEx Match[No, Program Files, No, ]","UN
505   jtanium1.localdomain,"UNRELATED TO Folder Name Search with RegEx Match[No, Program Files, No, ]","UN
506   jtanium1.localdomain,"UNRELATED TO Folder Name Search with RegEx Match[No, Program Files, No, ]","UN
507   jtanium1.localdomain,"UNRELATED TO Folder Name Search with RegEx Match[No, Program Files, No, ]","UN
508   jtanium1.localdomain,"UNRELATED TO Folder Name Search with RegEx Match[No, Program Files, No, ]","UN
509   jtanium1.localdomain,"UNRELATED TO Folder Name Search with RegEx Match[No, Program Files, No, ]","UN
510   jtanium1.localdomain,"UNRELATED TO Folder Name Search with RegEx Match[No, Program Files, No, ]","UN
511   jtanium1.localdomain,"UNRELATED TO Folder Name Search with RegEx Match[No, Program Files, No, ]","UN
512   jtanium1.localdomain,"UNRELATED TO Folder Name Search with RegEx Match[No, Program Files, No, ]","UN
513   jtanium1.localdomain,"UNRELATED TO Folder Name Search with RegEx Match[No, Program Files, No, ]","UN
514   jtanium1.localdomain,"UNRELATED TO Folder Name Search with RegEx Match[No, Program Files, No, ]","UN
515   jtanium1.localdomain,"UNRELATED TO Folder Name Search with RegEx Match[No, Program Files, No, ]","UN
516   jtanium1.localdomain,"UNRELATED TO Folder Name Search with RegEx Match[No, Program Files, No, ]","UN
517   jtanium1.localdomain,"UNRELATED TO Folder Name Search with RegEx Match[No, Program Files, No, ]","UN
518   jtanium1.localdomain,"UNRELATED TO Folder Name Search with RegEx Match[No, Program Files, No, ]","UN
519   jtanium1.localdomain,"UNRELATED TO Folder Name Search with RegEx Match[No, Program Files, No, ]","UN
520   jtanium1.localdomain,"UNRELATED TO Folder Name Search with RegEx Match[No, Program Files, No, ]","UN
521   jtanium1.localdomain,"UNRELATED TO Folder Name Search with RegEx Match[No, Program Files, No, ]","UN
522   jtanium1.localdomain,"UNRELATED TO Folder Name Search with RegEx Match[No, Program Files, No, ]","UN
523   jtanium1.localdomain,"UNRELATED TO Folder Name Search with RegEx Match[No, Program Files, No, ]","UN
524   jtanium1.localdomain,"UNRELATED TO Folder Name Search with RegEx Match[No, Program Files, No, ]","UN
525   jtanium1.localdomain,"UNRELATED TO Folder Name Search with RegEx Match[No, Program Files, No, ]","UN
526   jtanium1.localdomain,"UNRELATED TO Folder Name Search with RegEx Match[No, Program Files, No, ]","UN
527   jtanium1.localdomain,"UNRELATED TO Folder Name Search with RegEx Match[No, Program Files, No, ]","UN
528   jtanium1.localdomain,"UNRELATED TO Folder Name Search with RegEx Match[No, Program Files, No, ]","UN
529   jtanium1.localdomain,"UNRELATED TO Folder Name Search with RegEx Match[No, Program Files, No, ]","UN
530   jtanium1.localdomain,"UNRELATED TO Folder Name Search with RegEx Match[No, Program Files, No, ]","UN
```

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531  jtanium1.localdomain,"UNRELATED TO Folder Name Search with RegEx Match[No, Program Files, No, ]","UN
532  jtanium1.localdomain,"UNRELATED TO Folder Name Search with RegEx Match[No, Program Files, No, ]","UN
533  jtanium1.localdomain,"UNRELATED TO Folder Name Search with RegEx Match[No, Program Files, No, ]","UN
534  jtanium1.localdomain,"UNRELATED TO Folder Name Search with RegEx Match[No, Program Files, No, ]","UN
535  jtanium1.localdomain,"UNRELATED TO Folder Name Search with RegEx Match[No, Program Files, No, ]","UN
536  jtanium1.localdomain,"UNRELATED TO Folder Name Search with RegEx Match[No, Program Files, No, ]","UN
537  jtanium1.localdomain,"UNRELATED TO Folder Name Search with RegEx Match[No, Program Files, No, ]","UN
538  jtanium1.localdomain,"UNRELATED TO Folder Name Search with RegEx Match[No, Program Files, No, ]","UN
539  jtanium1.localdomain,"UNRELATED TO Folder Name Search with RegEx Match[No, Program Files, No, ]","UN
540  jtanium1.localdomain,"UNRELATED TO Folder Name Search with RegEx Match[No, Program Files, No, ]","UN
541  jtanium1.localdomain,"UNRELATED TO Folder Name Search with RegEx Match[No, Program Files, No, ]","UN
542  jtanium1.localdomain,"UNRELATED TO Folder Name Search with RegEx Match[No, Program Files, No, ]","UN
543  jtanium1.localdomain,UNRELATED TO IP Address,UNRELATED TO IP Address,UNRELATED TO IP Address,UNRELAT
544  jtanium1.localdomain,UNRELATED TO IP Address,UNRELATED TO IP Address,UNRELATED TO IP Address,UNRELAT
```

Export resultset csv all options

Export a ResultSet from asking a question as CSV with true for header_add_sensor, true for header_add_type, true for header_sort, and true for expand_grouped_columns

Example Python Code

```python
1   # Path to lib directory which contains pytan package
2   PYTAN_LIB_PATH = '../lib'
3
4   # connection info for Tanium Server
5   USERNAME = "Tanium User"
6   PASSWORD = "T@n!um"
7   HOST = "172.16.31.128"
8   PORT = "444"
9
10  # Logging conrols
11  LOGLEVEL = 2
12  DEBUGFORMAT = False
13
14  import sys, tempfile
15  sys.path.append(PYTAN_LIB_PATH)
16
17  import pytan
18  handler = pytan.Handler(
19      username=USERNAME,
20      password=PASSWORD,
21      host=HOST,
22      port=PORT,
23      loglevel=LOGLEVEL,
24      debugformat=DEBUGFORMAT,
25  )
26
27  print handler
28
29  # setup the export_obj kwargs for later
30  export_kwargs = {}
31  export_kwargs["header_sort"] = True
32  export_kwargs["export_format"] = u'csv'
33  export_kwargs["header_add_type"] = True
```

```
34   export_kwargs["expand_grouped_columns"] = True
35   export_kwargs["header_add_sensor"] = True
36
37   # ask the question that will provide the resultset that we want to use
38   ask_kwargs = {
39       'qtype': 'manual_human',
40       'sensors': [
41           "Computer Name", "IP Route Details", "IP Address",
42           'Folder Name Search with RegEx Match{dirname=Program Files,regex=.*Shared.*}',
43       ],
44   }
45   response = handler.ask(**ask_kwargs)
46
47   # export the object to a string
48   # (we could just as easily export to a file using export_to_report_file)
49   export_kwargs['obj'] = response['question_results']
50   export_str = handler.export_obj(**export_kwargs)
51
52
53   print ""
54   print "print the export_str returned from export_obj():"
55   print export_str
```

Output from Python Code

```
1    Handler for Session to 172.16.31.128:444, Authenticated: True, Version: 6.2.314.3258
2    2014-12-07 01:15:03,389 INFO      question_progress: Results 0% (Get Computer Name and IP Route Detai
3    2014-12-07 01:15:08,417 INFO      question_progress: Results 0% (Get Computer Name and IP Route Detai
4    2014-12-07 01:15:13,445 INFO      question_progress: Results 0% (Get Computer Name and IP Route Detai
5    2014-12-07 01:15:18,472 INFO      question_progress: Results 0% (Get Computer Name and IP Route Detai
6    2014-12-07 01:15:23,500 INFO      question_progress: Results 50% (Get Computer Name and IP Route Deta
7    2014-12-07 01:15:28,525 INFO      question_progress: Results 100% (Get Computer Name and IP Route Det
8
9    print the export_str returned from export_obj():
10   Computer Name: Computer Name (String),"Folder Name Search with RegEx Match[No, Program Files, No, ]:
11   Casus-Belli.local,Windows Only,fe80::e896:c1c9:d927:bbe0,UNRELATED TO IP Address: IP Address (IPAddr
12   Casus-Belli.local,Windows Only,2604:2000:69e6:1a00:82e6:50ff:fe1d:1dca,UNRELATED TO IP Address: IP A
13   Casus-Belli.local,Windows Only,172.16.31.1,UNRELATED TO IP Address: IP Address (IPAddress),UNRELATED
14   Casus-Belli.local,Windows Only,fe80::82e6:50ff:fe1d:1dca,UNRELATED TO IP Address: IP Address (IPAddr
15   Casus-Belli.local,Windows Only,172.16.152.1,UNRELATED TO IP Address: IP Address (IPAddress),UNRELATE
16   Casus-Belli.local,Windows Only,192.168.0.3,UNRELATED TO IP Address: IP Address (IPAddress),UNRELATED
17   Casus-Belli.local,Windows Only,fe80::2886:21ff:fe7f:3ef4,UNRELATED TO IP Address: IP Address (IPAddr
18   Casus-Belli.local,Windows Only,2604:2000:69e6:1a00:95ad:5fe5:cf9e:5403,UNRELATED TO IP Address: IP A
19   Casus-Belli.local,Windows Only,fd1b:56a6:50eb:cd49:e896:c1c9:d927:bbe0,UNRELATED TO IP Address: IP A
20   Casus-Belli.local,Windows Only,UNRELATED TO IP Route Details: Destination (IPAddress),default,UGSc,1
21   Casus-Belli.local,Windows Only,UNRELATED TO IP Route Details: Destination (IPAddress),192.168.0,UCS,
22   Casus-Belli.local,Windows Only,UNRELATED TO IP Route Details: Destination (IPAddress),169.254,UCS,li
23   Casus-Belli.local,Windows Only,UNRELATED TO IP Route Details: Destination (IPAddress),172.16.31/24,U
24   Casus-Belli.local,Windows Only,UNRELATED TO IP Route Details: Destination (IPAddress),192.168.0.1/32
25   Casus-Belli.local,Windows Only,UNRELATED TO IP Route Details: Destination (IPAddress),172.16.152/24,
26   Casus-Belli.local,Windows Only,UNRELATED TO IP Route Details: Destination (IPAddress),192.168.0.3/32
27   jtanium1.localdomain,C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-09-16-20-44-23\cgi-bin,"
28   jtanium1.localdomain,C:\Program Files\VMware\VMware Tools\plugins\vmsvc,"UNRELATED TO Folder Name Se
29   jtanium1.localdomain,C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\1040_IT
30   jtanium1.localdomain,C:\Program Files\Common Files\Microsoft Shared\VS7Debug,"UNRELATED TO Folder Na
31   jtanium1.localdomain,C:\Program Files\Tanium\Tanium Server\Apache24\manual\style,"UNRELATED TO Folde
32   jtanium1.localdomain,C:\Program Files\Tanium\Tanium Server\Apache24\htdocs\console\history,"UNRELATE
```

```
33   jtanium1.localdomain,C:\Program Files\Common Files\VMware\Drivers\vmci\sockets\include,"UNRELATED TO
34   jtanium1.localdomain,C:\Program Files\Common Files\Microsoft Shared\ink\ar-SA,"UNRELATED TO Folder N
35   jtanium1.localdomain,C:\Program Files\Tanium\Tanium Server\plugins\console\Dashboards,"UNRELATED TO
36   jtanium1.localdomain,C:\Program Files\Tanium\Tanium Server\CertificateBackup2014-11-17-11-17-33,"UNR
37   jtanium1.localdomain,C:\Program Files\Common Files\SpeechEngines\Microsoft,"UNRELATED TO Folder Name
38   jtanium1.localdomain,C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-09-16-20-44-23\modules,"
39   jtanium1.localdomain,C:\Program Files\Common Files\Microsoft Shared\ink\ru-RU,"UNRELATED TO Folder N
40   jtanium1.localdomain,C:\Program Files\Microsoft SQL Server\110\DTS\ForEachEnumerators\en,"UNRELATED
41   jtanium1.localdomain,C:\Program Files\Tanium\Tanium Server\Apache24\htdocs\php\Auth,"UNRELATED TO Fo
42   jtanium1.localdomain,C:\Program Files\MSBuild\Microsoft\Windows Workflow Foundation\v3.0,"UNRELATED
43   jtanium1.localdomain,C:\Program Files\MSBuild\Microsoft\Windows Workflow Foundation\v3.5,"UNRELATED
44   jtanium1.localdomain,C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\2052_CH
45   jtanium1.localdomain,C:\Program Files\Common Files\Microsoft Shared\ink\fsdefinitions\keypad,"UNRELA
46   jtanium1.localdomain,C:\Program Files\Tanium\Tanium Server\plugins\console\InstallPlugin,"UNRELATED
47   jtanium1.localdomain,C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\Log\20140910_112831\r
48   jtanium1.localdomain,C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\Bin,"UNRELATED TO Fol
49   jtanium1.localdomain,C:\Program Files\Microsoft SQL Server\110\DTS\ForEachEnumerators,"UNRELATED TO
50   jtanium1.localdomain,C:\Program Files\Tanium\Tanium Server\Apache24\conf,"UNRELATED TO Folder Name S
51   jtanium1.localdomain,C:\Program Files\MSBuild\Microsoft,"UNRELATED TO Folder Name Search with RegEx
52   jtanium1.localdomain,C:\Program Files\Microsoft SQL Server\110\DTS\UpgradeMappings,"UNRELATED TO Fol
53   jtanium1.localdomain,C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-11-17-11-17-33\htdocs\ph
54   jtanium1.localdomain,C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-09-16-20-44-23\manual\st
55   jtanium1.localdomain,C:\Program Files\Common Files\Microsoft Shared\ink,"UNRELATED TO Folder Name Se
56   jtanium1.localdomain,C:\Program Files\Common Files\Microsoft Shared\ink\sv-SE,"UNRELATED TO Folder N
57   jtanium1.localdomain,C:\Program Files\VMware\VMware Tools\messages,"UNRELATED TO Folder Name Search
58   jtanium1.localdomain,C:\Program Files\Microsoft SQL Server\110\DTS\ForEachEnumerators\Resources,"UNR
59   jtanium1.localdomain,C:\Program Files\Common Files\Microsoft Shared\ink\uk-UA,"UNRELATED TO Folder N
60   jtanium1.localdomain,C:\Program Files\Microsoft SQL Server\110\DTS\Binn\Resources\1033,"UNRELATED TO
61   jtanium1.localdomain,C:\Program Files\Tanium\Tanium Server\Apache24\manual\platform,"UNRELATED TO Fo
62   jtanium1.localdomain,C:\Program Files\Microsoft SQL Server\110\KeyFile,"UNRELATED TO Folder Name Sea
63   jtanium1.localdomain,C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\Resourc
64   jtanium1.localdomain,C:\Program Files\Tanium\Tanium Server\CertificateBackup2014-09-16-20-44-23,"UNR
65   jtanium1.localdomain,C:\Program Files\Microsoft SQL Server\100\Setup Bootstrap\Release\x64\1033,"UNR
66   jtanium1.localdomain,C:\Program Files\Microsoft.NET\ADOMD.NET,"UNRELATED TO Folder Name Search with
67   jtanium1.localdomain,C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\1028_CH
68   jtanium1.localdomain,C:\Program Files\Common Files\Microsoft Shared\ink\sl-SI,"UNRELATED TO Folder N
69   jtanium1.localdomain,C:\Program Files\Tanium\Tanium Server\plugins\console\UserGroups,"UNRELATED TO
70   jtanium1.localdomain,C:\Program Files\Common Files\Microsoft Shared\ink\hu-HU,"UNRELATED TO Folder N
71   jtanium1.localdomain,C:\Program Files\Common Files\System\en-US,"UNRELATED TO Folder Name Search wit
72   jtanium1.localdomain,C:\Program Files\Common Files\Microsoft Shared\ink\zh-TW,"UNRELATED TO Folder N
73   jtanium1.localdomain,C:\Program Files\Common Files\Microsoft Shared\ink\zh-CN,"UNRELATED TO Folder N
74   jtanium1.localdomain,C:\Program Files\Common Files\VMware\Drivers\video_wddm,"UNRELATED TO Folder Na
75   jtanium1.localdomain,C:\Program Files\Common Files\Microsoft Shared\ink\fi-FI,"UNRELATED TO Folder N
76   jtanium1.localdomain,C:\Program Files\Common Files\Microsoft Shared,"UNRELATED TO Folder Name Search
77   jtanium1.localdomain,C:\Program Files\Microsoft SQL Server\110\SDK\Include,"UNRELATED TO Folder Name
78   jtanium1.localdomain,C:\Program Files\Common Files\Microsoft Shared\ink\da-DK,"UNRELATED TO Folder N
79   jtanium1.localdomain,C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-09-16-20-44-23\icons\sma
80   jtanium1.localdomain,C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-11-17-11-17-33,"UNRELATE
81   jtanium1.localdomain,C:\Program Files\Microsoft Visual Studio 10.0\Common7\IDE\PrivateAssemblies,"UN
82   jtanium1.localdomain,C:\Program Files\Microsoft SQL Server\80,"UNRELATED TO Folder Name Search with
83   jtanium1.localdomain,C:\Program Files\Microsoft SQL Server\90,"UNRELATED TO Folder Name Search with
84   jtanium1.localdomain,C:\Program Files\Windows Mail,"UNRELATED TO Folder Name Search with RegEx Match
85   jtanium1.localdomain,C:\Program Files\Common Files\VMware\Drivers\vmci\sockets\bin\win64,"UNRELATED
86   jtanium1.localdomain,C:\Program Files\Common Files\VMware\Drivers\vmci\sockets\bin\win32,"UNRELATED
87   jtanium1.localdomain,C:\Program Files\Common Files\Microsoft Shared\ink\fsdefinitions\oskmenu,"UNREL
88   jtanium1.localdomain,C:\Program Files\Microsoft SQL Server\110\DTS\LogProviders,"UNRELATED TO Folder
89   jtanium1.localdomain,C:\Program Files\Microsoft SQL Server\100\Setup Bootstrap\Release\Resources\103
90   jtanium1.localdomain,C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\1049_RU
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```
91   jtanium1.localdomain,C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\Log\20140910_112604\D
92   jtanium1.localdomain,C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-09-16-20-44-23\manual\im
93   jtanium1.localdomain,C:\Program Files\Microsoft SQL Server\110\SDK,"UNRELATED TO Folder Name Search
94   jtanium1.localdomain,C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\1036_FR
95   jtanium1.localdomain,C:\Program Files\Windows NT\Accessories,"UNRELATED TO Folder Name Search with R
96   jtanium1.localdomain,C:\Program Files\Tanium\Tanium Server\content_public_keys,"UNRELATED TO Folder
97   jtanium1.localdomain,C:\Program Files\Windows NT\TableTextService\en-US,"UNRELATED TO Folder Name Se
98   jtanium1.localdomain,C:\Program Files\Tanium\Tanium Server\plugins\console\Manifest,"UNRELATED TO Fo
99   jtanium1.localdomain,C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-09-16-20-44-23\bin,"UNRE
100  jtanium1.localdomain,C:\Program Files\Tanium\Tanium Server\Apache24\logs,"UNRELATED TO Folder Name S
101  jtanium1.localdomain,C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\1033_EN
102  jtanium1.localdomain,C:\Program Files\Tanium\Tanium Server\plugins\content,"UNRELATED TO Folder Name
103  jtanium1.localdomain,C:\Program Files\Reference Assemblies\Microsoft\Framework,"UNRELATED TO Folder
104  jtanium1.localdomain,C:\Program Files\Microsoft SQL Server\110\DTS\Connections\en,"UNRELATED TO Fold
105  jtanium1.localdomain,C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-11-17-11-17-33\icons\sma
106  jtanium1.localdomain,C:\Program Files\Common Files\VMware\Drivers\Virtual Printer\TPOG3\amd64,"UNREL
107  jtanium1.localdomain,C:\Program Files\Microsoft Visual Studio 10.0\Common7\IDE\PrivateAssemblies\103
108  jtanium1.localdomain,C:\Program Files\Common Files\Microsoft Shared\ink\ko-KR,"UNRELATED TO Folder N
109  jtanium1.localdomain,C:\Program Files\Tanium\Tanium Server\Apache24\manual\ssl,"UNRELATED TO Folder
110  jtanium1.localdomain,C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\1042_KO
111  jtanium1.localdomain,C:\Program Files\Tanium\Tanium Server\Apache24\manual\style\css,"UNRELATED TO F
112  jtanium1.localdomain,C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-11-17-11-17-33\manual\mi
113  jtanium1.localdomain,C:\Program Files\Microsoft SQL Server\110\SDK\Lib\x64,"UNRELATED TO Folder Name
114  jtanium1.localdomain,C:\Program Files\Microsoft SQL Server\110\SDK\Lib\x86,"UNRELATED TO Folder Name
115  jtanium1.localdomain,C:\Program Files\Tanium\Tanium Server\plugins\console\lib,"UNRELATED TO Folder
116  jtanium1.localdomain,C:\Program Files\Common Files\Microsoft Shared\ink\it-IT,"UNRELATED TO Folder N
117  jtanium1.localdomain,C:\Program Files\Microsoft.NET,"UNRELATED TO Folder Name Search with RegEx Matc
118  jtanium1.localdomain,C:\Program Files\Microsoft SQL Server\110\DTS\DataDumps,"UNRELATED TO Folder Na
119  jtanium1.localdomain,C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-11-17-11-17-33\conf,"UNR
120  jtanium1.localdomain,C:\Program Files\Internet Explorer\images,"UNRELATED TO Folder Name Search with
121  jtanium1.localdomain,C:\Program Files\Windows NT,"UNRELATED TO Folder Name Search with RegEx Match[N
122  jtanium1.localdomain,C:\Program Files\Microsoft SQL Server\110\COM\Resources\1033,"UNRELATED TO Fold
123  jtanium1.localdomain,C:\Program Files\Microsoft SQL Server\MSSQL11.SQLEXPRESS\MSSQL\JOBS,"UNRELATED
124  jtanium1.localdomain,C:\Program Files\Tanium\Tanium Server\Apache24\htdocs,"UNRELATED TO Folder Name
125  jtanium1.localdomain,C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\1041_JP
126  jtanium1.localdomain,C:\Program Files\Tanium\Tanium Server\php55\extras,"UNRELATED TO Folder Name Se
127  jtanium1.localdomain,C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\1031_DE
128  jtanium1.localdomain,C:\Program Files\Microsoft SQL Server\100\Setup Bootstrap,"UNRELATED TO Folder
129  jtanium1.localdomain,C:\Program Files\Common Files\SpeechEngines\Microsoft\TTS20,"UNRELATED TO Folde
130  jtanium1.localdomain,C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-09-16-20-44-23,"UNRELATE
131  jtanium1.localdomain,C:\Program Files\Common Files\Microsoft Shared\Triedit,"UNRELATED TO Folder Nam
132  jtanium1.localdomain,C:\Program Files\Microsoft.NET\ADOMD.NET\110,"UNRELATED TO Folder Name Search w
133  jtanium1.localdomain,C:\Program Files\Microsoft SQL Server\110\Shared,"UNRELATED TO Folder Name Sear
134  jtanium1.localdomain,C:\Program Files\Microsoft SQL Server\110\Tools\Binn,"UNRELATED TO Folder Name
135  jtanium1.localdomain,C:\Program Files\Microsoft Help Viewer,"UNRELATED TO Folder Name Search with Re
136  jtanium1.localdomain,C:\Program Files\Microsoft SQL Server\100\Setup Bootstrap\Release\x64\Patch,"UN
137  jtanium1.localdomain,C:\Program Files\Tanium\Tanium Server\Apache24\bin\iconv,"UNRELATED TO Folder N
138  jtanium1.localdomain,C:\Program Files\Common Files\VMware\Drivers\memctl,"UNRELATED TO Folder Name S
139  jtanium1.localdomain,C:\Program Files\Tanium\Tanium Server\plugins\console,"UNRELATED TO Folder Name
140  jtanium1.localdomain,C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-09-16-20-44-23\conf\orig
141  jtanium1.localdomain,C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-09-16-20-44-23\htdocs\ph
142  jtanium1.localdomain,C:\Program Files\Microsoft SQL Server\90\License Terms,"UNRELATED TO Folder Nam
143  jtanium1.localdomain,C:\Program Files\Microsoft SQL Server\100\Setup Bootstrap\Release\Resources,"UN
144  jtanium1.localdomain,C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\x64\pt,
145  jtanium1.localdomain,C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\x64\ru,
146  jtanium1.localdomain,C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-11-17-11-17-33\lib,"UNRE
147  jtanium1.localdomain,C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\x64\it,
148  jtanium1.localdomain,C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\x64\ko,
```

```
149   jtanium1.localdomain,C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\x64\ja,
150   jtanium1.localdomain,C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\x64\es,
151   jtanium1.localdomain,C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\x64\de,
152   jtanium1.localdomain,C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\x64\fr,
153   jtanium1.localdomain,C:\Program Files\Common Files\Microsoft Shared\ink\he-IL,"UNRELATED TO Folder N
154   jtanium1.localdomain,C:\Program Files\Common Files\Microsoft Shared\ink\ro-RO,"UNRELATED TO Folder N
155   jtanium1.localdomain,C:\Program Files\Common Files\VMware\Drivers\pvscsi,"UNRELATED TO Folder Name S
156   jtanium1.localdomain,C:\Program Files\Microsoft Visual Studio 10.0\Common7\Packages,"UNRELATED TO Fo
157   jtanium1.localdomain,C:\Program Files\Microsoft Visual Studio 10.0\Common7,"UNRELATED TO Folder Name
158   jtanium1.localdomain,C:\Program Files\Common Files\Services,"UNRELATED TO Folder Name Search with Re
159   jtanium1.localdomain,C:\Program Files\Common Files\Microsoft Shared\ink\fsdefinitions\oskpred,"UNREL
160   jtanium1.localdomain,C:\Program Files\Microsoft SQL Server\110\SDK\Lib,"UNRELATED TO Folder Name Sea
161   jtanium1.localdomain,C:\Program Files\Microsoft SQL Server\110\DTS\PipelineComponents\Resources\1033
162   jtanium1.localdomain,C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-09-16-20-44-23\manual\mi
163   jtanium1.localdomain,C:\Program Files\Tanium\Tanium Server\Apache24\manual\misc,"UNRELATED TO Folder
164   jtanium1.localdomain,C:\Program Files\Common Files\SpeechEngines\Microsoft\TTS20\en-US,"UNRELATED TO
165   jtanium1.localdomain,C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-11-17-11-17-33\modules,"
166   jtanium1.localdomain,C:\Program Files\Microsoft SQL Server\110\DTS\Connections,"UNRELATED TO Folder
167   jtanium1.localdomain,C:\Program Files\Tanium\Tanium Server\Downloads\URLCache,"UNRELATED TO Folder N
168   jtanium1.localdomain,C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\1046_PT
169   jtanium1.localdomain,C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-09-16-20-44-23\manual\re
170   jtanium1.localdomain,C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-11-17-11-17-33\manual\im
171   jtanium1.localdomain,C:\Program Files\Common Files\VMware\Drivers\vmci\device,"UNRELATED TO Folder N
172   jtanium1.localdomain,C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-11-17-11-17-33\manual\re
173   jtanium1.localdomain,C:\Program Files\Common Files,"UNRELATED TO Folder Name Search with RegEx Match
174   jtanium1.localdomain,C:\Program Files\Tanium\Tanium Server\Apache24\manual,"UNRELATED TO Folder Name
175   jtanium1.localdomain,C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-09-16-20-44-23\manual\pl
176   jtanium1.localdomain,C:\Program Files\Tanium\Tanium Server\Apache24\conf\extra,"UNRELATED TO Folder
177   jtanium1.localdomain,C:\Program Files\Common Files\VMware\Drivers\vmci,"UNRELATED TO Folder Name Sea
178   jtanium1.localdomain,C:\Program Files\Common Files\System\msadc\en-US,"UNRELATED TO Folder Name Sear
179   jtanium1.localdomain,C:\Program Files\Common Files\System,"UNRELATED TO Folder Name Search with RegE
180   jtanium1.localdomain,C:\Program Files\Windows NT\Accessories\en-US,"UNRELATED TO Folder Name Search
181   jtanium1.localdomain,C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\1036_FR
182   jtanium1.localdomain,C:\Program Files\Microsoft SQL Server\MSSQL11.SQLEXPRESS\MSSQL\Binn\Resources,"
183   jtanium1.localdomain,C:\Program Files\Tanium\Tanium Server\plugins\console\RegistrySetting,"UNRELATE
184   jtanium1.localdomain,C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\1046_PT
185   jtanium1.localdomain,C:\Program Files\Tanium\Tanium Server\Apache24\manual\rewrite,"UNRELATED TO Fol
186   jtanium1.localdomain,C:\Program Files\VMware\VMware Tools,"UNRELATED TO Folder Name Search with RegE
187   jtanium1.localdomain,C:\Program Files\Common Files\Microsoft Shared\ink\fsdefinitions\numbers,"UNREL
188   jtanium1.localdomain,C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\1049_RU
189   jtanium1.localdomain,C:\Program Files\Microsoft SQL Server\MSSQL11.SQLEXPRESS\MSSQL\Log,"UNRELATED T
190   jtanium1.localdomain,C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-09-16-20-44-23\lib,"UNRE
191   jtanium1.localdomain,C:\Program Files\Windows NT\TableTextService,"UNRELATED TO Folder Name Search w
192   jtanium1.localdomain,C:\Program Files\Microsoft SQL Server\MSSQL11.SQLEXPRESS\MSSQL\Binn\Resources\1
193   jtanium1.localdomain,C:\Program Files\Microsoft SQL Server\MSSQL11.SQLEXPRESS\MSSQL\Binn\Resources\1
194   jtanium1.localdomain,C:\Program Files\Microsoft SQL Server\MSSQL11.SQLEXPRESS\MSSQL\Binn\Resources\1
195   jtanium1.localdomain,C:\Program Files\Microsoft SQL Server\MSSQL11.SQLEXPRESS\MSSQL\Binn\Resources\1
196   jtanium1.localdomain,C:\Program Files\Microsoft SQL Server\MSSQL11.SQLEXPRESS\MSSQL\Binn\Resources\1
197   jtanium1.localdomain,C:\Program Files\Microsoft SQL Server\MSSQL11.SQLEXPRESS\MSSQL\Binn\Resources\1
198   jtanium1.localdomain,C:\Program Files\Microsoft SQL Server\MSSQL11.SQLEXPRESS\MSSQL\Binn\Resources\1
199   jtanium1.localdomain,C:\Program Files\Microsoft SQL Server\MSSQL11.SQLEXPRESS\MSSQL\Binn\Resources\1
200   jtanium1.localdomain,C:\Program Files\Microsoft SQL Server\MSSQL11.SQLEXPRESS\MSSQL\Binn\Resources\1
201   jtanium1.localdomain,C:\Program Files\Microsoft SQL Server\MSSQL11.SQLEXPRESS\MSSQL\Binn\Resources\1
202   jtanium1.localdomain,C:\Program Files\Microsoft SQL Server\MSSQL11.SQLEXPRESS\MSSQL\Binn\Resources\1
203   jtanium1.localdomain,C:\Program Files\Microsoft SQL Server\MSSQL11.SQLEXPRESS\MSSQL\Binn\Resources\1
204   jtanium1.localdomain,C:\Program Files\Microsoft SQL Server\MSSQL11.SQLEXPRESS\MSSQL\Binn\Resources\1
205   jtanium1.localdomain,C:\Program Files\Microsoft SQL Server\MSSQL11.SQLEXPRESS\MSSQL\Binn\Resources\1
206   jtanium1.localdomain,C:\Program Files\Microsoft SQL Server\MSSQL11.SQLEXPRESS\MSSQL\Binn\Resources\1
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207  jtanium1.localdomain,C:\Program Files\Microsoft SQL Server\MSSQL11.SQLEXPRESS\MSSQL\Binn\Resources\1
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209  jtanium1.localdomain,C:\Program Files\Microsoft SQL Server\MSSQL11.SQLEXPRESS\MSSQL\Binn\Resources\1
210  jtanium1.localdomain,C:\Program Files\Microsoft SQL Server\MSSQL11.SQLEXPRESS\MSSQL\Binn\Resources\1
211  jtanium1.localdomain,C:\Program Files\Tanium\Tanium Server\Apache24\htdocs\console,"UNRELATED TO Fol
212  jtanium1.localdomain,C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\1042_KO
213  jtanium1.localdomain,C:\Program Files\Tanium\Tanium Server\Apache24\error,"UNRELATED TO Folder Name
214  jtanium1.localdomain,C:\Program Files\Common Files\Microsoft Shared\ink\nb-NO,"UNRELATED TO Folder N
215  jtanium1.localdomain,C:\Program Files\Tanium\Tanium Server\Apache24\manual\mod,"UNRELATED TO Folder
216  jtanium1.localdomain,C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\1041_JP
217  jtanium1.localdomain,C:\Program Files\Common Files\Microsoft Shared\ink\lv-LV,"UNRELATED TO Folder N
218  jtanium1.localdomain,C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-09-16-20-44-23\manual,"U
219  jtanium1.localdomain,C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\1033_EN
220  jtanium1.localdomain,C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-09-16-20-44-23\conf\orig
221  jtanium1.localdomain,C:\Program Files\Common Files\Microsoft Shared\ink\fsdefinitions\auxpad,"UNRELA
222  jtanium1.localdomain,C:\Program Files\Common Files\Microsoft Shared\TextConv,"UNRELATED TO Folder Na
223  jtanium1.localdomain,C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-09-16-20-44-23\manual\de
224  jtanium1.localdomain,C:\Program Files\Common Files\Microsoft Shared\MSInfo\en-US,"UNRELATED TO Folde
225  jtanium1.localdomain,C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\3082_ES
226  jtanium1.localdomain,C:\Program Files\Common Files\Microsoft Shared\ink\nl-NL,"UNRELATED TO Folder N
227  jtanium1.localdomain,C:\Program Files\Tanium,"UNRELATED TO Folder Name Search with RegEx Match[No, P
228  jtanium1.localdomain,C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-11-17-11-17-33\manual\ho
229  jtanium1.localdomain,C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-11-17-11-17-33\include,"
230  jtanium1.localdomain,C:\Program Files\Reference Assemblies\Microsoft\Framework\v3.5\RedistList,"UNRE
231  jtanium1.localdomain,C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\Log\20140910_112532\D
232  jtanium1.localdomain,C:\Program Files\Microsoft SQL Server\100\KeyFile\1033,"UNRELATED TO Folder Nam
233  jtanium1.localdomain,C:\Program Files\Microsoft SQL Server\110\Tools\Binn\Resources\1033,"UNRELATED
234  jtanium1.localdomain,C:\Program Files\Tanium\Tanium Server\Downloads\Cache,"UNRELATED TO Folder Name
235  jtanium1.localdomain,C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-11-17-11-17-33\manual\st
236  jtanium1.localdomain,C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\3082_ES
237  jtanium1.localdomain,C:\Program Files\Tanium\Tanium Server\php55\dev,"UNRELATED TO Folder Name Searc
238  jtanium1.localdomain,C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-11-17-11-17-33\bin\iconv
239  jtanium1.localdomain,C:\Program Files\VMware\VMware Tools\messages\zh_CN,"UNRELATED TO Folder Name S
240  jtanium1.localdomain,C:\Program Files\Tanium\Tanium Server\Apache24\manual\vhosts,"UNRELATED TO Fold
241  jtanium1.localdomain,C:\Program Files\Common Files\VMware\Drivers\vmci\sockets,"UNRELATED TO Folder
242  jtanium1.localdomain,C:\Program Files\Microsoft SQL Server\90\Shared\Resources\1033,"UNRELATED TO Fc
243  jtanium1.localdomain,C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-09-16-20-44-23\conf,"UNR
244  jtanium1.localdomain,C:\Program Files\Common Files\VMware,"UNRELATED TO Folder Name Search with RegE
245  jtanium1.localdomain,C:\Program Files\Common Files\System\msadc,"UNRELATED TO Folder Name Search wit
246  jtanium1.localdomain,C:\Program Files\Microsoft SQL Server\110\Tools,"UNRELATED TO Folder Name Searc
247  jtanium1.localdomain,C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-11-17-11-17-33\htdocs\ph
248  jtanium1.localdomain,C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\1040_IT
249  jtanium1.localdomain,C:\Program Files\Common Files\Microsoft Shared\ink\fr-FR,"UNRELATED TO Folder N
250  jtanium1.localdomain,C:\Program Files\Common Files\VMware\Drivers\vss,"UNRELATED TO Folder Name Sear
251  jtanium1.localdomain,C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-11-17-11-17-33\bin,"UNRE
252  jtanium1.localdomain,C:\Program Files\Common Files\Microsoft Shared\ink\tr-TR,"UNRELATED TO Folder N
253  jtanium1.localdomain,C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-11-17-11-17-33\manual\pr
254  jtanium1.localdomain,C:\Program Files\Common Files\Microsoft Shared\VC,"UNRELATED TO Folder Name Sea
255  jtanium1.localdomain,C:\Program Files\Tanium\Tanium Server\php55\ext,"UNRELATED TO Folder Name Searc
256  jtanium1.localdomain,C:\Program Files\Common Files\Microsoft Shared\WF,"UNRELATED TO Folder Name Sea
257  jtanium1.localdomain,C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-09-16-20-44-23\manual\ss
258  jtanium1.localdomain,C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-11-17-11-17-33\htdocs,"U
259  jtanium1.localdomain,C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-11-17-11-17-33\htdocs\cc
260  jtanium1.localdomain,C:\Program Files\Microsoft SQL Server\MSSQL11.SQLEXPRESS\MSSQL\Binn\Templates,"
261  jtanium1.localdomain,C:\Program Files\Tanium\Tanium Server\plugins,"UNRELATED TO Folder Name Search
262  jtanium1.localdomain,C:\Program Files\Tanium\Tanium Server\Apache24\icons\small,"UNRELATED TO Folder
263  jtanium1.localdomain,C:\Program Files\Microsoft SQL Server\110\Shared\en,"UNRELATED TO Folder Name S
264  jtanium1.localdomain,C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-09-16-20-44-23\htdocs\ph
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265  jtanium1.localdomain,C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-09-16-20-44-23\error\inc
266  jtanium1.localdomain,C:\Program Files\Microsoft SQL Server\100\Setup Bootstrap\Release\x64\Help,"UNR
267  jtanium1.localdomain,C:\Program Files\Microsoft Help Viewer\v1.0\Microsoft Help Viewer 1.1,"UNRELATE
268  jtanium1.localdomain,C:\Program Files\Microsoft SQL Server\110\Tools\Binn\ManagementStudio,"UNRELATE
269  jtanium1.localdomain,C:\Program Files\Common Files\Microsoft Shared\ink\fsdefinitions\symbols,"UNREL
270  jtanium1.localdomain,C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\1036_FR
271  jtanium1.localdomain,C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-11-17-11-17-33\manual,"U
272  jtanium1.localdomain,C:\Program Files\Common Files\System\Ole DB\en-US,"UNRELATED TO Folder Name Sea
273  jtanium1.localdomain,C:\Program Files\Microsoft SQL Server\110\Tools\Binn\ManagementStudio\Extension
274  jtanium1.localdomain,C:\Program Files\Microsoft SQL Server\80\Tools\Binn,"UNRELATED TO Folder Name S
275  jtanium1.localdomain,C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\2052_CH
276  jtanium1.localdomain,C:\Program Files\Common Files\Microsoft Shared\ink\lt-LT,"UNRELATED TO Folder N
277  jtanium1.localdomain,C:\Program Files\Microsoft SQL Server\MSSQL11.SQLEXPRESS\MSSQL\Binn,"UNRELATED
278  jtanium1.localdomain,C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\x64,"UN
279  jtanium1.localdomain,C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-09-16-20-44-23\htdocs,"U
280  jtanium1.localdomain,C:\Program Files\Microsoft SQL Server\100\KeyFile,"UNRELATED TO Folder Name Sea
281  jtanium1.localdomain,C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-11-17-11-17-33\manual\st
282  jtanium1.localdomain,C:\Program Files\Microsoft SQL Server\MSSQL11.SQLEXPRESS\MSSQL\Install,"UNRELAT
283  jtanium1.localdomain,C:\Program Files\Common Files\Microsoft Shared\ink\et-EE,"UNRELATED TO Folder N
284  jtanium1.localdomain,C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\1028_CH
285  jtanium1.localdomain,C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\1040_IT
286  jtanium1.localdomain,C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\1028_CH
287  jtanium1.localdomain,C:\Program Files\Common Files\VMware\Drivers\Virtual Printer\TPOGPS,"UNRELATED
288  jtanium1.localdomain,C:\Program Files\Common Files\Microsoft Shared\ink\cs-CZ,"UNRELATED TO Folder N
289  jtanium1.localdomain,C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\2052_CH
290  jtanium1.localdomain,C:\Program Files\VMware,"UNRELATED TO Folder Name Search with RegEx Match[No, P
291  jtanium1.localdomain,C:\Program Files\Microsoft SQL Server\110\Shared\VS2008,"UNRELATED TO Folder Na
292  jtanium1.localdomain,C:\Program Files\Microsoft Visual Studio 10.0\Common7\Packages\Debugger,"UNRELA
293  jtanium1.localdomain,C:\Program Files\Common Files\VMware\Drivers\mouse,"UNRELATED TO Folder Name Se
294  jtanium1.localdomain,C:\Program Files\Common Files\VMware\Drivers\vmci\sockets\bin,"UNRELATED TO Fol
295  jtanium1.localdomain,C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-09-16-20-44-23\bin\iconv
296  jtanium1.localdomain,C:\Program Files\Common Files\Microsoft Shared\ink\en-US,"UNRELATED TO Folder N
297  jtanium1.localdomain,C:\Program Files\Microsoft SQL Server\MSSQL11.SQLEXPRESS\MSSQL\Backup,"UNRELATE
298  jtanium1.localdomain,C:\Program Files\Tanium\Tanium Server\VB,"UNRELATED TO Folder Name Search with
299  jtanium1.localdomain,C:\Program Files\Microsoft SQL Server\110\DTS\ForEachEnumerators\Resources\1033
300  jtanium1.localdomain,C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-11-17-11-17-33\manual\vh
301  jtanium1.localdomain,C:\Program Files\Common Files\Microsoft Shared\ink\bg-BG,"UNRELATED TO Folder N
302  jtanium1.localdomain,C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-11-17-11-17-33\manual\ss
303  jtanium1.localdomain,C:\Program Files\Tanium\Tanium Server\Apache24\bin,"UNRELATED TO Folder Name Se
304  jtanium1.localdomain,C:\Program Files\Common Files\System\Ole DB,"UNRELATED TO Folder Name Search wi
305  jtanium1.localdomain,C:\Program Files\Tanium\Tanium Server\Apache24\manual\faq,"UNRELATED TO Folder
306  jtanium1.localdomain,C:\Program Files\Microsoft SQL Server\MSSQL11.SQLEXPRESS,"UNRELATED TO Folder N
307  jtanium1.localdomain,C:\Program Files\Common Files\VMware\Drivers\audio,"UNRELATED TO Folder Name Se
308  jtanium1.localdomain,C:\Program Files\Microsoft SQL Server\110\DTS\Binn\Resources,"UNRELATED TO Fold
309  jtanium1.localdomain,C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\1041_JP
310  jtanium1.localdomain,C:\Program Files\Reference Assemblies\Microsoft\Framework\v3.0\RedistList,"UNRE
311  jtanium1.localdomain,C:\Program Files\Tanium\Tanium Server\Downloads,"UNRELATED TO Folder Name Searc
312  jtanium1.localdomain,C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\1049_RU
313  jtanium1.localdomain,C:\Program Files\Microsoft Visual Studio 10.0\Common7\Packages\Debugger\x86,"UN
314  jtanium1.localdomain,C:\Program Files\Microsoft Visual Studio 10.0\Common7\Packages\Debugger\X64,"UN
315  jtanium1.localdomain,C:\Program Files\MSBuild\Microsoft\Windows Workflow Foundation,"UNRELATED TO Fo
316  jtanium1.localdomain,C:\Program Files\Microsoft SQL Server\100\Shared,"UNRELATED TO Folder Name Sear
317  jtanium1.localdomain,C:\Program Files\Internet Explorer\SIGNUP,"UNRELATED TO Folder Name Search with
318  jtanium1.localdomain,C:\Program Files\Common Files\Microsoft Shared\ink\es-ES,"UNRELATED TO Folder N
319  jtanium1.localdomain,C:\Program Files\Tanium\Tanium Server\Support,"UNRELATED TO Folder Name Search
320  jtanium1.localdomain,C:\Program Files\Microsoft SQL Server\110\DTS\Binn,"UNRELATED TO Folder Name Se
321  jtanium1.localdomain,C:\Program Files\Common Files\Microsoft Shared\MSInfo,"UNRELATED TO Folder Name
322  jtanium1.localdomain,C:\Program Files\Reference Assemblies,"UNRELATED TO Folder Name Search with Reg
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323  jtanium1.localdomain,C:\Program Files\Microsoft SQL Server\110\Shared\RsFxInstall,"UNRELATED TO Fold
324  jtanium1.localdomain,C:\Program Files\Microsoft Help Viewer\v1.0\CatalogInfo,"UNRELATED TO Folder Na
325  jtanium1.localdomain,C:\Program Files\Microsoft SQL Server\110\DTS\MappingFiles,"UNRELATED TO Folder
326  jtanium1.localdomain,C:\Program Files\Microsoft SQL Server\110\DTS\PipelineComponents\Resources,"UNR
327  jtanium1.localdomain,C:\Program Files\Common Files\Microsoft Shared\WF\amd64,"UNRELATED TO Folder Na
328  jtanium1.localdomain,C:\Program Files\Tanium\Tanium Server\plugins\console\SigVerifier,"UNRELATED TO
329  jtanium1.localdomain,C:\Program Files\Tanium\Tanium Server\plugins\console\DashboardGroups,"UNRELATE
330  jtanium1.localdomain,C:\Program Files\Microsoft SQL Server\80\Tools,"UNRELATED TO Folder Name Search
331  jtanium1.localdomain,C:\Program Files\Microsoft SQL Server\MSSQL11.SQLEXPRESS\MSSQL\Template Data,"U
332  jtanium1.localdomain,C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-09-16-20-44-23\icons,"UN
333  jtanium1.localdomain,C:\Program Files\Common Files\Microsoft Shared\ink\de-DE,"UNRELATED TO Folder N
334  jtanium1.localdomain,C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\1031_DE
335  jtanium1.localdomain,C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\1042_KO
336  jtanium1.localdomain,C:\Program Files\Microsoft Visual Studio 10.0\Common7\IDE,"UNRELATED TO Folder
337  jtanium1.localdomain,C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\1033_EN
338  jtanium1.localdomain,C:\Program Files\Common Files\Microsoft Shared\ink\fsdefinitions\main,"UNRELATE
339  jtanium1.localdomain,C:\Program Files\Microsoft Help Viewer\v1.0\StopWords,"UNRELATED TO Folder Name
340  jtanium1.localdomain,C:\Program Files\Microsoft SQL Server\110\Tools\Binn\ManagementStudio\Extension
341  jtanium1.localdomain,C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap,"UNRELATED TO Folder
342  jtanium1.localdomain,C:\Program Files\Microsoft SQL Server\MSSQL11.SQLEXPRESS\MSSQL\repldata,"UNRELA
343  jtanium1.localdomain,C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\x64\zh-
344  jtanium1.localdomain,C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\x64\zh-
345  jtanium1.localdomain,C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-09-16-20-44-23\manual\vh
346  jtanium1.localdomain,C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\1042_KO
347  jtanium1.localdomain,C:\Program Files\Microsoft SQL Server\110\DTS\Tasks\en,"UNRELATED TO Folder Nam
348  jtanium1.localdomain,C:\Program Files\Common Files\SpeechEngines,"UNRELATED TO Folder Name Search wi
349  jtanium1.localdomain,C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-09-16-20-44-23\logs,"UNR
350  jtanium1.localdomain,C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-09-16-20-44-23\manual\mo
351  jtanium1.localdomain,C:\Program Files\VMware\VMware Tools\Drivers\hgfs,"UNRELATED TO Folder Name Sea
352  jtanium1.localdomain,C:\Program Files\Tanium\Tanium Server\Apache24\conf\original,"UNRELATED TO Fold
353  jtanium1.localdomain,C:\Program Files\Uninstall Information,"UNRELATED TO Folder Name Search with Re
354  jtanium1.localdomain,C:\Program Files\Reference Assemblies\Microsoft\Framework\v3.5,"UNRELATED TO Fo
355  jtanium1.localdomain,C:\Program Files\Reference Assemblies\Microsoft\Framework\v3.0,"UNRELATED TO Fo
356  jtanium1.localdomain,C:\Program Files\Microsoft Visual Studio 10.0\Common7\IDE\Xml,"UNRELATED TO Fol
357  jtanium1.localdomain,C:\Program Files\Microsoft SQL Server\110\DTS\PipelineComponents,"UNRELATED TO
358  jtanium1.localdomain,C:\Program Files\Microsoft SQL Server\90\Shared\Resources,"UNRELATED TO Folder
359  jtanium1.localdomain,C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\1046_PT
360  jtanium1.localdomain,C:\Program Files\Tanium\Tanium Server\Apache24\include,"UNRELATED TO Folder Nam
361  jtanium1.localdomain,C:\Program Files\Tanium\Tanium Server\plugins\console\GroupFiliters,"UNRELATED
362  jtanium1.localdomain,C:\Program Files\VMware\VMware Tools\Drivers,"UNRELATED TO Folder Name Search w
363  jtanium1.localdomain,C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\1041_JP
364  jtanium1.localdomain,C:\Program Files\Tanium\Tanium Server\Downloads\tmp,"UNRELATED TO Folder Name S
365  jtanium1.localdomain,C:\Program Files\Microsoft SQL Server\100\Setup Bootstrap\Release,"UNRELATED TO
366  jtanium1.localdomain,C:\Program Files\Tanium\Tanium Server\Apache24\conf\original\extra,"UNRELATED T
367  jtanium1.localdomain,C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-11-17-11-17-33\manual\st
368  jtanium1.localdomain,C:\Program Files\Common Files\Microsoft Shared\ink\sr-Latn-CS,"UNRELATED TO Fol
369  jtanium1.localdomain,C:\Program Files\Common Files\Microsoft Shared\ink\fsdefinitions\osknumpad,"UNR
370  jtanium1.localdomain,C:\Program Files\Microsoft SQL Server\110\License Terms,"UNRELATED TO Folder Na
371  jtanium1.localdomain,C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012,"UNRELA
372  jtanium1.localdomain,C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\1031_DE
373  jtanium1.localdomain,C:\Program Files\Common Files\VMware\Drivers\vmxnet,"UNRELATED TO Folder Name S
374  jtanium1.localdomain,C:\Program Files\Tanium\Tanium Server\Strings,"UNRELATED TO Folder Name Search
375  jtanium1.localdomain,C:\Program Files\MSBuild,"UNRELATED TO Folder Name Search with RegEx Match[No,
376  jtanium1.localdomain,C:\Program Files\Microsoft SQL Server\110\COM\Resources,"UNRELATED TO Folder Na
377  jtanium1.localdomain,C:\Program Files\Common Files\VMware\Drivers\Virtual Printer\TPOGPS\amd64,"UNRE
378  jtanium1.localdomain,C:\Program Files\Microsoft SQL Server\80\COM,"UNRELATED TO Folder Name Search w
379  jtanium1.localdomain,C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-09-16-20-44-23\htdocs\cc
380  jtanium1.localdomain,C:\Program Files\Tanium\Tanium Server\Apache24\manual\howto,"UNRELATED TO Folde
```

```
381   jtanium1.localdomain,C:\Program Files\Microsoft SQL Server\110\Shared\Resources\1033,"UNRELATED TO F
382   jtanium1.localdomain,C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-09-16-20-44-23\conf\extr
383   jtanium1.localdomain,C:\Program Files\Common Files\Microsoft Shared\MSEnv,"UNRELATED TO Folder Name
384   jtanium1.localdomain,C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\2052_CH
385   jtanium1.localdomain,C:\Program Files\Common Files\VMware\Drivers\Virtual Printer,"UNRELATED TO Fold
386   jtanium1.localdomain,C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-11-17-11-17-33\htdocs\co
387   jtanium1.localdomain,C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\1028_CH
388   jtanium1.localdomain,C:\Program Files\Microsoft SQL Server\110\Shared\VS2008\1033,"UNRELATED TO Fold
389   jtanium1.localdomain,C:\Program Files\Common Files\Microsoft Shared\ink\pt-BR,"UNRELATED TO Folder N
390   jtanium1.localdomain,C:\Program Files\Common Files\Microsoft Shared\ink\pt-PT,"UNRELATED TO Folder N
391   jtanium1.localdomain,C:\Program Files\Common Files\System\ado,"UNRELATED TO Folder Name Search with
392   jtanium1.localdomain,C:\Program Files\Microsoft SQL Server\110\KeyFile\1033,"UNRELATED TO Folder Nam
393   jtanium1.localdomain,C:\Program Files\Tanium\Tanium Server\SOAPUpload,"UNRELATED TO Folder Name Sear
394   jtanium1.localdomain,C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\Resourc
395   jtanium1.localdomain,C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\Log\20140910_112604\r
396   jtanium1.localdomain,C:\Program Files\Microsoft SQL Server\MSSQL11.SQLEXPRESS\MSSQL\DATA,"UNRELATED
397   jtanium1.localdomain,C:\Program Files\Tanium\Tanium Server\php55\extras\ssl,"UNRELATED TO Folder Nam
398   jtanium1.localdomain,C:\Program Files\Common Files\Microsoft Shared\ink\el-GR,"UNRELATED TO Folder N
399   jtanium1.localdomain,C:\Program Files\VMware\VMware Tools\win32,"UNRELATED TO Folder Name Search wit
400   jtanium1.localdomain,C:\Program Files\VMware\VMware Tools\win64,"UNRELATED TO Folder Name Search wit
401   jtanium1.localdomain,C:\Program Files\Microsoft SQL Server\110\Shared\Resources,"UNRELATED TO Folder
402   jtanium1.localdomain,C:\Program Files\Internet Explorer,"UNRELATED TO Folder Name Search with RegEx
403   jtanium1.localdomain,C:\Program Files\Tanium\Tanium Server\Apache24\icons,"UNRELATED TO Folder Name
404   jtanium1.localdomain,C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\1033_EN
405   jtanium1.localdomain,C:\Program Files\Microsoft SQL Server\MSSQL11.SQLEXPRESS\MSSQL,"UNRELATED TO Fo
406   jtanium1.localdomain,C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\1031_DE
407   jtanium1.localdomain,C:\Program Files\Tanium\Tanium Server\Apache24\manual\programs,"UNRELATED TO Fo
408   jtanium1.localdomain,C:\Program Files\Common Files\VMware\Drivers\vmxnet3,"UNRELATED TO Folder Name
409   jtanium1.localdomain,C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\1049_RU
410   jtanium1.localdomain,C:\Program Files\VMware\VMware Tools\Drivers\hgfs\wow64,"UNRELATED TO Folder Na
411   jtanium1.localdomain,C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\Log,"UNRELATED TO Fol
412   jtanium1.localdomain,C:\Program Files\Microsoft SQL Server\90\License Terms\1033,"UNRELATED TO Folde
413   jtanium1.localdomain,C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-11-17-11-17-33\logs,"UNR
414   jtanium1.localdomain,C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-11-17-11-17-33\manual\fa
415   jtanium1.localdomain,C:\Program Files\Tanium\Tanium Server\Suppot_patch1,"UNRELATED TO Folder Name S
416   jtanium1.localdomain,C:\Program Files\Common Files\Microsoft Shared\ink\fsdefinitions\web,"UNRELATED
417   jtanium1.localdomain,C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-11-17-11-17-33\cgi-bin,"
418   jtanium1.localdomain,C:\Program Files\Tanium\Tanium Server\Apache24\manual\developer,"UNRELATED TO F
419   jtanium1.localdomain,C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\Resourc
420   jtanium1.localdomain,C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\Resourc
421   jtanium1.localdomain,C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\Resourc
422   jtanium1.localdomain,C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\Resourc
423   jtanium1.localdomain,C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\Resourc
424   jtanium1.localdomain,C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\Resourc
425   jtanium1.localdomain,C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\Resourc
426   jtanium1.localdomain,C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\Resourc
427   jtanium1.localdomain,C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\Resourc
428   jtanium1.localdomain,C:\Program Files\Microsoft SQL Server\100\Setup Bootstrap\Release\x64,"UNRELATE
429   jtanium1.localdomain,C:\Program Files\Tanium\Tanium Server\Apache24\manual\style\latex,"UNRELATED TO
430   jtanium1.localdomain,C:\Program Files\Tanium\Tanium Server,"UNRELATED TO Folder Name Search with Reg
431   jtanium1.localdomain,C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-09-16-20-44-23\htdocs\co
432   jtanium1.localdomain,C:\Program Files\Tanium\Tanium Server\http,"UNRELATED TO Folder Name Search wit
433   jtanium1.localdomain,C:\Program Files\Common Files\Microsoft Shared\ink\ja-JP,"UNRELATED TO Folder N
434   jtanium1.localdomain,C:\Program Files\Microsoft SQL Server\110\DTS\Packages,"UNRELATED TO Folder Nam
435   jtanium1.localdomain,C:\Program Files\Common Files\Microsoft Shared\ink\sk-SK,"UNRELATED TO Folder N
436   jtanium1.localdomain,C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-11-17-11-17-33\manual\st
437   jtanium1.localdomain,C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-11-17-11-17-33\conf\orig
438   jtanium1.localdomain,C:\Program Files\Tanium\Tanium Server\Apache24\htdocs\php,"UNRELATED TO Folder
```

```
439   jtanium1.localdomain,C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-09-16-20-44-23\manual\ho
440   jtanium1.localdomain,C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-09-16-20-44-23\manual\st
441   jtanium1.localdomain,C:\Program Files\Common Files\Microsoft Shared\ink\hr-HR,"UNRELATED TO Folder N
442   jtanium1.localdomain,C:\Program Files\Common Files\VMware\Drivers,"UNRELATED TO Folder Name Search w
443   jtanium1.localdomain,C:\Program Files\Tanium\Tanium Server\Apache24\lib,"UNRELATED TO Folder Name Se
444   jtanium1.localdomain,C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\Log\20140910_112532,"
445   jtanium1.localdomain,C:\Program Files\Microsoft Help Viewer\v1.0,"UNRELATED TO Folder Name Search wi
446   jtanium1.localdomain,C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-11-17-11-17-33\conf\extr
447   jtanium1.localdomain,C:\Program Files\Tanium\Tanium Server\Apache24,"UNRELATED TO Folder Name Search
448   jtanium1.localdomain,C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-09-16-20-44-23\manual\st
449   jtanium1.localdomain,C:\Program Files\Common Files\Microsoft Shared\VGX,"UNRELATED TO Folder Name Se
450   jtanium1.localdomain,C:\Program Files\Microsoft SQL Server\110\DTS\ProviderDescriptors,"UNRELATED TO
451   jtanium1.localdomain,C:\Program Files\Microsoft SQL Server\110\COM\en,"UNRELATED TO Folder Name Sear
452   jtanium1.localdomain,C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-09-16-20-44-23\manual\fa
453   jtanium1.localdomain,C:\Program Files\Tanium\Tanium Server\Apache24\manual\style\scripts,"UNRELATED
454   jtanium1.localdomain,C:\Program Files\Common Files\Microsoft Shared\Triedit\en-US,"UNRELATED TO Fold
455   jtanium1.localdomain,C:\Program Files\Microsoft SQL Server\100\Setup Bootstrap\Release\x64\Help\1033
456   jtanium1.localdomain,C:\Program Files\Microsoft SQL Server\110\COM,"UNRELATED TO Folder Name Search
457   jtanium1.localdomain,C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\1046_PT
458   jtanium1.localdomain,C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\Log\20140910_112831\D
459   jtanium1.localdomain,C:\Program Files\Common Files\Microsoft Shared\TextConv\en-US,"UNRELATED TO Fol
460   jtanium1.localdomain,C:\Program Files\VMware\VMware Tools\plugins,"UNRELATED TO Folder Name Search w
461   jtanium1.localdomain,C:\Program Files\Microsoft SQL Server\110\DTS,"UNRELATED TO Folder Name Search
462   jtanium1.localdomain,C:\Program Files\Tanium\Tanium Server\plugins\console\SavedQuestions,"UNRELATED
463   jtanium1.localdomain,C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-11-17-11-17-33\error\inc
464   jtanium1.localdomain,C:\Program Files\Common Files\System\ado\en-US,"UNRELATED TO Folder Name Search
465   jtanium1.localdomain,C:\Program Files\Tanium\Tanium Server\Apache24\cgi-bin,"UNRELATED TO Folder Nam
466   jtanium1.localdomain,C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\Log\20140910_112604,"
467   jtanium1.localdomain,C:\Program Files\VMware\VMware Tools\plugins\vmusr,"UNRELATED TO Folder Name Se
468   jtanium1.localdomain,C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\Log\20140910_112831\D
469   jtanium1.localdomain,C:\Program Files\Microsoft SQL Server\MSSQL11.SQLEXPRESS\MSSQL\Binn\DllTmp64,"U
470   jtanium1.localdomain,C:\Program Files\Microsoft SQL Server\MSSQL11.SQLEXPRESS\MSSQL\Binn\DllTmp32,"U
471   jtanium1.localdomain,C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-09-16-20-44-23\manual\pr
472   jtanium1.localdomain,C:\Program Files\Microsoft SQL Server\110\Tools\Binn\Resources,"UNRELATED TO Fc
473   jtanium1.localdomain,C:\Program Files\Tanium\Tanium Server\php55,"UNRELATED TO Folder Name Search wi
474   jtanium1.localdomain,C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-09-16-20-44-23\manual\st
475   jtanium1.localdomain,C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\1040_IT
476   jtanium1.localdomain,C:\Program Files\Reference Assemblies\Microsoft,"UNRELATED TO Folder Name Searc
477   jtanium1.localdomain,C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-09-16-20-44-23\include,"
478   jtanium1.localdomain,C:\Program Files\Tanium\Tanium Server\Apache24\manual\images,"UNRELATED TO Fold
479   jtanium1.localdomain,C:\Program Files\Common Files\Microsoft Shared\ink\fsdefinitions,"UNRELATED TO
480   jtanium1.localdomain,C:\Program Files\Microsoft SQL Server\110\SDK\Assemblies\en,"UNRELATED TO Folde
481   jtanium1.localdomain,C:\Program Files\Tanium\Tanium Server\Logs,"UNRELATED TO Folder Name Search wit
482   jtanium1.localdomain,C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-11-17-11-17-33\manual\mc
483   jtanium1.localdomain,C:\Program Files\Common Files\VMware\Drivers\Virtual Printer\TPOG3,"UNRELATED T
484   jtanium1.localdomain,C:\Program Files\Microsoft SQL Server\110,"UNRELATED TO Folder Name Search with
485   jtanium1.localdomain,C:\Program Files\Microsoft SQL Server\100,"UNRELATED TO Folder Name Search with
486   jtanium1.localdomain,C:\Program Files\Tanium\Tanium Server\Apache24\modules,"UNRELATED TO Folder Nam
487   jtanium1.localdomain,C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-11-17-11-17-33\manual\pl
488   jtanium1.localdomain,C:\Program Files\Microsoft Visual Studio 10.0,"UNRELATED TO Folder Name Search
489   jtanium1.localdomain,C:\Program Files\Microsoft SQL Server\MSSQL11.SQLEXPRESS\MSSQL\Binn\Resources\3
490   jtanium1.localdomain,C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\Log\20140910_112831,"
491   jtanium1.localdomain,C:\Program Files\VMware\VMware Tools\plugins\common,"UNRELATED TO Folder Name S
492   jtanium1.localdomain,C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\Log\20140910_112804,"
493   jtanium1.localdomain,C:\Program Files\Common Files\Microsoft Shared\ink\th-TH,"UNRELATED TO Folder N
494   jtanium1.localdomain,C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-11-17-11-17-33\icons,"UN
495   jtanium1.localdomain,C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\Log\20140910_112831\D
496   jtanium1.localdomain,C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-11-17-11-17-33\error,"UN
```

```
497  jtanium1.localdomain,C:\Program Files\Microsoft SQL Server,"UNRELATED TO Folder Name Search with Reg
498  jtanium1.localdomain,C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-09-16-20-44-23\error,"UN
499  jtanium1.localdomain,C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\3082_ES
500  jtanium1.localdomain,C:\Program Files\Common Files\Microsoft Shared\SQL Debugging,"UNRELATED TO Fold
501  jtanium1.localdomain,C:\Program Files\Tanium\Tanium Server\Apache24\error\include,"UNRELATED TO Fold
502  jtanium1.localdomain,C:\Program Files\Microsoft SQL Server\110\SDK\Assemblies,"UNRELATED TO Folder N
503  jtanium1.localdomain,C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\x64\Pat
504  jtanium1.localdomain,C:\Program Files\Microsoft Help Viewer\v1.0\en,"UNRELATED TO Folder Name Search
505  jtanium1.localdomain,C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\3082_ES
506  jtanium1.localdomain,C:\Program Files\Microsoft SQL Server\90\Shared,"UNRELATED TO Folder Name Searc
507  jtanium1.localdomain,C:\Program Files\Microsoft SQL Server\MSSQL11.SQLEXPRESS\MSSQL\Binn\Resources\2
508  jtanium1.localdomain,C:\Program Files\Microsoft SQL Server\MSSQL11.SQLEXPRESS\MSSQL\Binn\Resources\2
509  jtanium1.localdomain,C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-11-17-11-17-33\conf\orig
510  jtanium1.localdomain,C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-11-17-11-17-33\manual\de
511  jtanium1.localdomain,C:\Program Files\Common Files\Microsoft Shared\ink\pl-PL,"UNRELATED TO Folder N
512  jtanium1.localdomain,C:\Program Files\Common Files\SpeechEngines\Microsoft\TTS20\en-US\enu-dsk,"UNRE
513  jtanium1.localdomain,C:\Program Files\Common Files\Microsoft Shared\Stationery,"UNRELATED TO Folder
514  jtanium1.localdomain,C:\Program Files\Common Files\Microsoft Shared\VS7Debug\1033,"UNRELATED TO Fold
515  jtanium1.localdomain,C:\Program Files\Microsoft SQL Server\100\Setup Bootstrap\Bin,"UNRELATED TO Fol
516  jtanium1.localdomain,C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\Resourc
517  jtanium1.localdomain,C:\Program Files\Microsoft SQL Server\110\Shared\ErrorDumps,"UNRELATED TO Folde
518  jtanium1.localdomain,C:\Program Files\Internet Explorer\en-US,"UNRELATED TO Folder Name Search with
519  jtanium1.localdomain,C:\Program Files\VMware\VMware Tools\messages\it,"UNRELATED TO Folder Name Sear
520  jtanium1.localdomain,C:\Program Files\VMware\VMware Tools\messages\ja,"UNRELATED TO Folder Name Sear
521  jtanium1.localdomain,C:\Program Files\VMware\VMware Tools\messages\ko,"UNRELATED TO Folder Name Sear
522  jtanium1.localdomain,C:\Program Files\VMware\VMware Tools\messages\de,"UNRELATED TO Folder Name Sear
523  jtanium1.localdomain,C:\Program Files\VMware\VMware Tools\messages\es,"UNRELATED TO Folder Name Sear
524  jtanium1.localdomain,C:\Program Files\VMware\VMware Tools\messages\fr,"UNRELATED TO Folder Name Sear
525  jtanium1.localdomain,C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\1036_FR
526  jtanium1.localdomain,C:\Program Files\Microsoft SQL Server\110\DTS\Tasks,"UNRELATED TO Folder Name S
527  jtanium1.localdomain,UNRELATED TO IP Address: IP Address (IPAddress),172.16.31.128,UNRELATED TO IP A
528  jtanium1.localdomain,UNRELATED TO IP Address: IP Address (IPAddress),fe80::5968:4e9d:b4fc:88ef,UNREL
529  jtanium1.localdomain,UNRELATED TO IP Route Details: Destination (IPAddress),UNRELATED TO IP Route De
530  jtanium1.localdomain,UNRELATED TO IP Route Details: Destination (IPAddress),UNRELATED TO IP Route De
531  jtanium1.localdomain,UNRELATED TO IP Route Details: Destination (IPAddress),UNRELATED TO IP Route De
532  jtanium1.localdomain,UNRELATED TO IP Route Details: Destination (IPAddress),UNRELATED TO IP Route De
533  jtanium1.localdomain,UNRELATED TO IP Route Details: Destination (IPAddress),UNRELATED TO IP Route De
```

Export resultset json

Export a ResultSet from asking a question as JSON with the default options

Example Python Code

```python
1   # Path to lib directory which contains pytan package
2   PYTAN_LIB_PATH = '../lib'
3
4   # connection info for Tanium Server
5   USERNAME = "Tanium User"
6   PASSWORD = "T@n!um"
7   HOST = "172.16.31.128"
8   PORT = "444"
9
10  # Logging conrols
11  LOGLEVEL = 2
```

```
12   DEBUGFORMAT = False
13
14   import sys, tempfile
15   sys.path.append(PYTAN_LIB_PATH)
16
17   import pytan
18   handler = pytan.Handler(
19       username=USERNAME,
20       password=PASSWORD,
21       host=HOST,
22       port=PORT,
23       loglevel=LOGLEVEL,
24       debugformat=DEBUGFORMAT,
25   )
26
27   print handler
28
29   # setup the export_obj kwargs for later
30   export_kwargs = {}
31   export_kwargs["export_format"] = u'json'
32
33   # ask the question that will provide the resultset that we want to use
34   ask_kwargs = {
35       'qtype': 'manual_human',
36       'sensors': [
37           "Computer Name", "IP Route Details", "IP Address",
38           'Folder Name Search with RegEx Match{dirname=Program Files,regex=.*Shared.*}',
39       ],
40   }
41   response = handler.ask(**ask_kwargs)
42
43   # export the object to a string
44   # (we could just as easily export to a file using export_to_report_file)
45   export_kwargs['obj'] = response['question_results']
46   export_str = handler.export_obj(**export_kwargs)
47
48
49   print ""
50   print "print the export_str returned from export_obj():"
51   print export_str
```

Output from Python Code

```
1    Handler for Session to 172.16.31.128:444, Authenticated: True, Version: 6.2.314.3258
2    2014-12-07 01:15:28,809 INFO       question_progress: Results 0% (Get Computer Name and IP Route Detai
3    2014-12-07 01:15:33,833 INFO       question_progress: Results 0% (Get Computer Name and IP Route Detai
4    2014-12-07 01:15:38,859 INFO       question_progress: Results 0% (Get Computer Name and IP Route Detai
5    2014-12-07 01:15:43,887 INFO       question_progress: Results 0% (Get Computer Name and IP Route Detai
6    2014-12-07 01:15:48,911 INFO       question_progress: Results 0% (Get Computer Name and IP Route Detai
7    2014-12-07 01:15:53,945 INFO       question_progress: Results 0% (Get Computer Name and IP Route Detai
8    2014-12-07 01:15:58,972 INFO       question_progress: Results 0% (Get Computer Name and IP Route Detai
9    2014-12-07 01:16:03,999 INFO       question_progress: Results 0% (Get Computer Name and IP Route Detai
10   2014-12-07 01:16:09,024 INFO       question_progress: Results 0% (Get Computer Name and IP Route Detai
11   2014-12-07 01:16:14,053 INFO       question_progress: Results 0% (Get Computer Name and IP Route Detai
12   2014-12-07 01:16:19,082 INFO       question_progress: Results 0% (Get Computer Name and IP Route Detai
13   2014-12-07 01:16:24,116 INFO       question_progress: Results 0% (Get Computer Name and IP Route Detai
14   2014-12-07 01:16:29,147 INFO       question_progress: Results 0% (Get Computer Name and IP Route Detai
```

```
15  2014-12-07 01:16:34,174 INFO      question_progress: Results 0% (Get Computer Name and IP Route Detai
16  2014-12-07 01:16:39,202 INFO      question_progress: Results 0% (Get Computer Name and IP Route Detai
17  2014-12-07 01:16:44,231 INFO      question_progress: Results 0% (Get Computer Name and IP Route Detai
18  2014-12-07 01:16:49,259 INFO      question_progress: Results 100% (Get Computer Name and IP Route Det
19
20  print the export_str returned from export_obj():
21  [
22    {
23      "row0": [
24        {
25          "column.display_name": "Computer Name",
26          "column.result_type": "String",
27          "column.values": [
28            "Casus-Belli.local"
29          ],
30          "column.what_hash": 3409330187
31        },
32        {
33          "column.display_name": "Destination",
34          "column.result_type": "IPAddress",
35          "column.values": [
36            "default",
37            "192.168.0",
38            "169.254",
39            "172.16.31/24",
40            "192.168.0.1/32",
41            "172.16.152/24",
42            "192.168.0.3/32"
43          ],
44          "column.what_hash": 435227963
45        },
46        {
47          "column.display_name": "Gateway",
48          "column.result_type": "IPAddress",
49          "column.values": [
50            "192.168.0.1",
51            "link#4",
52            "link#4",
53            "link#13",
54            "link#4",
55            "link#12",
56            "link#4"
57          ],
58          "column.what_hash": 435227963
59        },
60        {
61          "column.display_name": "Mask",
62          "column.result_type": "String",
63          "column.values": [
64            null,
65            null,
66            null,
67            null,
68            null,
69            null,
70            null
71          ],
72          "column.what_hash": 435227963
```

```
 73           },
 74           {
 75             "column.display_name": "Flags",
 76             "column.result_type": "String",
 77             "column.values": [
 78               "UGSc",
 79               "UCS",
 80               "UCS",
 81               "UC",
 82               "UCS",
 83               "UC",
 84               "UCS"
 85             ],
 86             "column.what_hash": 435227963
 87           },
 88           {
 89             "column.display_name": "Metric",
 90             "column.result_type": "NumericInteger",
 91             "column.values": [
 92               null,
 93               null,
 94               null,
 95               null,
 96               null,
 97               null,
 98               null
 99             ],
100             "column.what_hash": 435227963
101           },
102           {
103             "column.display_name": "Interface",
104             "column.result_type": "String",
105             "column.values": [
106               "en0",
107               "en0",
108               "en0",
109               "vmnet8",
110               "en0",
111               "vmnet1",
112               "en0"
113             ],
114             "column.what_hash": 435227963
115           },
116           {
117             "column.display_name": "IP Address",
118             "column.result_type": "IPAddress",
119             "column.values": [
120               "fe80::e896:c1c9:d927:bbe0",
121               "2604:2000:69e6:1a00:82e6:50ff:fe1d:1dca",
122               "172.16.31.1",
123               "fe80::82e6:50ff:fe1d:1dca",
124               "172.16.152.1",
125               "192.168.0.3",
126               "fe80::2886:21ff:fe7f:3ef4",
127               "2604:2000:69e6:1a00:95ad:5fe5:cf9e:5403",
128               "fd1b:56a6:50eb:cd49:e896:c1c9:d927:bbe0"
129             ],
130             "column.what_hash": 3209138996
```

```
131          },
132          {
133            "column.display_name": "Folder Name Search with RegEx Match[No, Program Files, No, ]",
134            "column.result_type": "String",
135            "column.values": [
136              "Windows Only"
137            ],
138            "column.what_hash": 2945266020
139          },
140          {
141            "column.display_name": "Count",
142            "column.result_type": "NumericDecimal",
143            "column.values": [
144              "1"
145            ],
146            "column.what_hash": 0
147          }
148        ]
149      },
150      {
151        "row1": [
152          {
153            "column.display_name": "Computer Name",
154            "column.result_type": "String",
155            "column.values": [
156              "jtanium1.localdomain"
157            ],
158            "column.what_hash": 3409330187
159          },
160          {
161            "column.display_name": "Destination",
162            "column.result_type": "IPAddress",
163            "column.values": [
164              "172.16.31.128",
165              "172.16.31.0",
166              "127.0.0.1",
167              "0.0.0.0",
168              "127.0.0.0"
169            ],
170            "column.what_hash": 435227963
171          },
172          {
173            "column.display_name": "Gateway",
174            "column.result_type": "IPAddress",
175            "column.values": [
176              "0.0.0.0",
177              "0.0.0.0",
178              "0.0.0.0",
179              "172.16.31.2",
180              "0.0.0.0"
181            ],
182            "column.what_hash": 435227963
183          },
184          {
185            "column.display_name": "Mask",
186            "column.result_type": "String",
187            "column.values": [
188              "255.255.255.255",
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189          "255.255.255.0",
190          "255.255.255.255",
191          "0.0.0.0",
192          "255.0.0.0"
193        ],
194        "column.what_hash": 435227963
195      },
196      {
197        "column.display_name": "Flags",
198        "column.result_type": "String",
199        "column.values": [
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201          "-",
202          "-",
203          "-",
204          "-"
205        ],
206        "column.what_hash": 435227963
207      },
208      {
209        "column.display_name": "Metric",
210        "column.result_type": "NumericInteger",
211        "column.values": [
212          "266",
213          "266",
214          "306",
215          "266",
216          "306"
217        ],
218        "column.what_hash": 435227963
219      },
220      {
221        "column.display_name": "Interface",
222        "column.result_type": "String",
223        "column.values": [
224          "-",
225          "-",
226          "-",
227          "-",
228          "-"
229        ],
230        "column.what_hash": 435227963
231      },
232      {
233        "column.display_name": "IP Address",
234        "column.result_type": "IPAddress",
235        "column.values": [
236          "172.16.31.128",
237          "fe80::5968:4e9d:b4fc:88ef"
238        ],
239        "column.what_hash": 3209138996
240      },
241      {
242        "column.display_name": "Folder Name Search with RegEx Match[No, Program Files, No, ]",
243        "column.result_type": "String",
244        "column.values": [
245          "C:\\Program Files\\Tanium\\Tanium Server\\ApacheBackup2014-09-16-20-44-23\\cgi-bin",
246          "C:\\Program Files\\VMware\\VMware Tools\\plugins\\vmsvc",
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247          "C:\\Program Files\\Microsoft SQL Server\\110\\Setup Bootstrap\\SQLServer2012\\1040_ITA_LP
248          "C:\\Program Files\\Common Files\\Microsoft Shared\\VS7Debug",
249          "C:\\Program Files\\Tanium\\Tanium Server\\Apache24\\manual\\style",
250          "C:\\Program Files\\Tanium\\Tanium Server\\Apache24\\htdocs\\console\\history",
251          "C:\\Program Files\\Common Files\\VMware\\Drivers\\vmci\\sockets\\include",
252          "C:\\Program Files\\Common Files\\Microsoft Shared\\ink\\ar-SA",
253          "C:\\Program Files\\Tanium\\Tanium Server\\plugins\\console\\Dashboards",
254          "C:\\Program Files\\Tanium\\Tanium Server\\CertificateBackup2014-11-17-11-17-33",
255          "C:\\Program Files\\Common Files\\SpeechEngines\\Microsoft",
256          "C:\\Program Files\\Tanium\\Tanium Server\\ApacheBackup2014-09-16-20-44-23\\modules",
257          "C:\\Program Files\\Common Files\\Microsoft Shared\\ink\\ru-RU",
258          "C:\\Program Files\\Microsoft SQL Server\\110\\DTS\\ForEachEnumerators\\en",
259          "C:\\Program Files\\Tanium\\Tanium Server\\Apache24\\htdocs\\php\\Auth",
260          "C:\\Program Files\\MSBuild\\Microsoft\\Windows Workflow Foundation\\v3.0",
261          "C:\\Program Files\\MSBuild\\Microsoft\\Windows Workflow Foundation\\v3.5",
262          "C:\\Program Files\\Microsoft SQL Server\\110\\Setup Bootstrap\\SQLServer2012\\2052_CHS_LP
263          "C:\\Program Files\\Common Files\\Microsoft Shared\\ink\\fsdefinitions\\keypad",
264          "C:\\Program Files\\Tanium\\Tanium Server\\plugins\\console\\InstallPlugin",
265          "C:\\Program Files\\Microsoft SQL Server\\110\\Setup Bootstrap\\Log\\20140910_112831\\resc
266          "C:\\Program Files\\Microsoft SQL Server\\110\\Setup Bootstrap\\Bin",
267          "C:\\Program Files\\Microsoft SQL Server\\110\\DTS\\ForEachEnumerators",
268          "C:\\Program Files\\Tanium\\Tanium Server\\Apache24\\conf",
269          "C:\\Program Files\\MSBuild\\Microsoft",
270          "C:\\Program Files\\Microsoft SQL Server\\110\\DTS\\UpgradeMappings",
271          "C:\\Program Files\\Tanium\\Tanium Server\\ApacheBackup2014-11-17-11-17-33\\htdocs\\php\\A
272          "C:\\Program Files\\Tanium\\Tanium Server\\ApacheBackup2014-09-16-20-44-23\\manual\\style\
273          "C:\\Program Files\\Common Files\\Microsoft Shared\\ink",
274          "C:\\Program Files\\Common Files\\Microsoft Shared\\ink\\sv-SE",
275          "C:\\Program Files\\VMware\\VMware Tools\\messages",
276          "C:\\Program Files\\Microsoft SQL Server\\110\\DTS\\ForEachEnumerators\\Resources",
277          "C:\\Program Files\\Common Files\\Microsoft Shared\\ink\\uk-UA",
278          "C:\\Program Files\\Microsoft SQL Server\\110\\DTS\\Binn\\Resources\\1033",
279          "C:\\Program Files\\Tanium\\Tanium Server\\Apache24\\manual\\platform",
280          "C:\\Program Files\\Microsoft SQL Server\\110\\KeyFile",
281          "C:\\Program Files\\Microsoft SQL Server\\110\\Setup Bootstrap\\SQLServer2012\\Resources\\
282          "C:\\Program Files\\Tanium\\Tanium Server\\CertificateBackup2014-09-16-20-44-23",
283          "C:\\Program Files\\Microsoft SQL Server\\100\\Setup Bootstrap\\Release\\x64\\1033",
284          "C:\\Program Files\\Microsoft.NET\\ADOMD.NET",
285          "C:\\Program Files\\Microsoft SQL Server\\110\\Setup Bootstrap\\SQLServer2012\\1028_CHT_LP
286          "C:\\Program Files\\Common Files\\Microsoft Shared\\ink\\sl-SI",
287          "C:\\Program Files\\Tanium\\Tanium Server\\plugins\\console\\UserGroups",
288          "C:\\Program Files\\Common Files\\Microsoft Shared\\ink\\hu-HU",
289          "C:\\Program Files\\Common Files\\System\\en-US",
290          "C:\\Program Files\\Common Files\\Microsoft Shared\\ink\\zh-TW",
291          "C:\\Program Files\\Common Files\\Microsoft Shared\\ink\\zh-CN",
292          "C:\\Program Files\\Common Files\\VMware\\Drivers\\video_wddm",
293          "C:\\Program Files\\Common Files\\Microsoft Shared\\ink\\fi-FI",
294          "C:\\Program Files\\Common Files\\Microsoft Shared",
295          "C:\\Program Files\\Microsoft SQL Server\\110\\SDK\\Include",
296          "C:\\Program Files\\Common Files\\Microsoft Shared\\ink\\da-DK",
297          "C:\\Program Files\\Tanium\\Tanium Server\\ApacheBackup2014-09-16-20-44-23\\icons\\small",
298          "C:\\Program Files\\Tanium\\Tanium Server\\ApacheBackup2014-11-17-11-17-33",
299          "C:\\Program Files\\Microsoft Visual Studio 10.0\\Common7\\IDE\\PrivateAssemblies",
300          "C:\\Program Files\\Microsoft SQL Server\\80",
301          "C:\\Program Files\\Microsoft SQL Server\\90",
302          "C:\\Program Files\\Windows Mail",
303          "C:\\Program Files\\Common Files\\VMware\\Drivers\\vmci\\sockets\\bin\\win64",
304          "C:\\Program Files\\Common Files\\VMware\\Drivers\\vmci\\sockets\\bin\\win32",
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305            "C:\\Program Files\\Common Files\\Microsoft Shared\\ink\\fsdefinitions\\oskmenu",
306            "C:\\Program Files\\Microsoft SQL Server\\110\\DTS\\LogProviders",
307            "C:\\Program Files\\Microsoft SQL Server\\100\\Setup Bootstrap\\Release\\Resources\\1033",
308            "C:\\Program Files\\Microsoft SQL Server\\110\\Setup Bootstrap\\SQLServer2012\\1049_RUS_LP
309            "C:\\Program Files\\Microsoft SQL Server\\110\\Setup Bootstrap\\Log\\20140910_112604\\Data
310            "C:\\Program Files\\Tanium\\Tanium Server\\ApacheBackup2014-09-16-20-44-23\\manual\\images
311            "C:\\Program Files\\Microsoft SQL Server\\110\\SDK",
312            "C:\\Program Files\\Microsoft SQL Server\\110\\Setup Bootstrap\\SQLServer2012\\1036_FRA_LP
313            "C:\\Program Files\\Windows NT\\Accessories",
314            "C:\\Program Files\\Tanium\\Tanium Server\\content_public_keys",
315            "C:\\Program Files\\Windows NT\\TableTextService\\en-US",
316            "C:\\Program Files\\Tanium\\Tanium Server\\plugins\\console\\Manifest",
317            "C:\\Program Files\\Tanium\\Tanium Server\\ApacheBackup2014-09-16-20-44-23\\bin",
318            "C:\\Program Files\\Tanium\\Tanium Server\\Apache24\\logs",
319            "C:\\Program Files\\Microsoft SQL Server\\110\\Setup Bootstrap\\SQLServer2012\\1033_ENU_LP
320            "C:\\Program Files\\Tanium\\Tanium Server\\plugins\\content",
321            "C:\\Program Files\\Reference Assemblies\\Microsoft\\Framework",
322            "C:\\Program Files\\Microsoft SQL Server\\110\\DTS\\Connections\\en",
323            "C:\\Program Files\\Tanium\\Tanium Server\\ApacheBackup2014-11-17-11-17-33\\icons\\small",
324            "C:\\Program Files\\Common Files\\VMware\\Drivers\\Virtual Printer\\TPOG3\\amd64",
325            "C:\\Program Files\\Microsoft Visual Studio 10.0\\Common7\\IDE\\PrivateAssemblies\\1033",
326            "C:\\Program Files\\Common Files\\Microsoft Shared\\ink\\ko-KR",
327            "C:\\Program Files\\Tanium\\Tanium Server\\Apache24\\manual\\ssl",
328            "C:\\Program Files\\Microsoft SQL Server\\110\\Setup Bootstrap\\SQLServer2012\\1042_KOR_LP
329            "C:\\Program Files\\Tanium\\Tanium Server\\Apache24\\manual\\style\\css",
330            "C:\\Program Files\\Tanium\\Tanium Server\\ApacheBackup2014-11-17-11-17-33\\manual\\misc",
331            "C:\\Program Files\\Microsoft SQL Server\\110\\SDK\\Lib\\x64",
332            "C:\\Program Files\\Microsoft SQL Server\\110\\SDK\\Lib\\x86",
333            "C:\\Program Files\\Tanium\\Tanium Server\\plugins\\console\\lib",
334            "C:\\Program Files\\Common Files\\Microsoft Shared\\ink\\it-IT",
335            "C:\\Program Files\\Microsoft.NET",
336            "C:\\Program Files\\Microsoft SQL Server\\110\\DTS\\DataDumps",
337            "C:\\Program Files\\Tanium\\Tanium Server\\ApacheBackup2014-11-17-11-17-33\\conf",
338            "C:\\Program Files\\Internet Explorer\\images",
339            "C:\\Program Files\\Windows NT",
340            "C:\\Program Files\\Microsoft SQL Server\\110\\COM\\Resources\\1033",
341            "C:\\Program Files\\Microsoft SQL Server\\MSSQL11.SQLEXPRESS\\MSSQL\\JOBS",
342            "C:\\Program Files\\Tanium\\Tanium Server\\Apache24\\htdocs",
343            "C:\\Program Files\\Microsoft SQL Server\\110\\Setup Bootstrap\\SQLServer2012\\1041_JPN_LP
344            "C:\\Program Files\\Tanium\\Tanium Server\\php55\\extras",
345            "C:\\Program Files\\Microsoft SQL Server\\110\\Setup Bootstrap\\SQLServer2012\\1031_DEU_LP
346            "C:\\Program Files\\Microsoft SQL Server\\100\\Setup Bootstrap",
347            "C:\\Program Files\\Common Files\\SpeechEngines\\Microsoft\\TTS20",
348            "C:\\Program Files\\Tanium\\Tanium Server\\ApacheBackup2014-09-16-20-44-23",
349            "C:\\Program Files\\Common Files\\Microsoft Shared\\Triedit",
350            "C:\\Program Files\\Microsoft.NET\\ADOMD.NET\\110",
351            "C:\\Program Files\\Microsoft SQL Server\\110\\Shared",
352            "C:\\Program Files\\Microsoft SQL Server\\110\\Tools\\Binn",
353            "C:\\Program Files\\Microsoft Help Viewer",
354            "C:\\Program Files\\Microsoft SQL Server\\100\\Setup Bootstrap\\Release\\x64\\Patch",
355            "C:\\Program Files\\Tanium\\Tanium Server\\Apache24\\bin\\iconv",
356            "C:\\Program Files\\Common Files\\VMware\\Drivers\\memctl",
357            "C:\\Program Files\\Tanium\\Tanium Server\\plugins\\console",
358            "C:\\Program Files\\Tanium\\Tanium Server\\ApacheBackup2014-09-16-20-44-23\\conf\\original
359            "C:\\Program Files\\Tanium\\Tanium Server\\ApacheBackup2014-09-16-20-44-23\\htdocs\\php",
360            "C:\\Program Files\\Microsoft SQL Server\\90\\License Terms",
361            "C:\\Program Files\\Microsoft SQL Server\\100\\Setup Bootstrap\\Release\\Resources",
362            "C:\\Program Files\\Microsoft SQL Server\\110\\Setup Bootstrap\\SQLServer2012\\x64\\pt",
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363          "C:\\Program Files\\Microsoft SQL Server\\110\\Setup Bootstrap\\SQLServer2012\\x64\\ru",
364          "C:\\Program Files\\Tanium\\Tanium Server\\ApacheBackup2014-11-17-11-17-33\\lib",
365          "C:\\Program Files\\Microsoft SQL Server\\110\\Setup Bootstrap\\SQLServer2012\\x64\\it",
366          "C:\\Program Files\\Microsoft SQL Server\\110\\Setup Bootstrap\\SQLServer2012\\x64\\ko",
367          "C:\\Program Files\\Microsoft SQL Server\\110\\Setup Bootstrap\\SQLServer2012\\x64\\ja",
368          "C:\\Program Files\\Microsoft SQL Server\\110\\Setup Bootstrap\\SQLServer2012\\x64\\es",
369          "C:\\Program Files\\Microsoft SQL Server\\110\\Setup Bootstrap\\SQLServer2012\\x64\\de",
370          "C:\\Program Files\\Microsoft SQL Server\\110\\Setup Bootstrap\\SQLServer2012\\x64\\fr",
371          "C:\\Program Files\\Common Files\\Microsoft Shared\\ink\\he-IL",
372          "C:\\Program Files\\Common Files\\Microsoft Shared\\ink\\ro-RO",
373          "C:\\Program Files\\Common Files\\VMware\\Drivers\\pvscsi",
374          "C:\\Program Files\\Microsoft Visual Studio 10.0\\Common7\\Packages",
375          "C:\\Program Files\\Microsoft Visual Studio 10.0\\Common7",
376          "C:\\Program Files\\Common Files\\Services",
377          "C:\\Program Files\\Common Files\\Microsoft Shared\\ink\\fsdefinitions\\oskpred",
378          "C:\\Program Files\\Microsoft SQL Server\\110\\SDK\\Lib",
379          "C:\\Program Files\\Microsoft SQL Server\\110\\DTS\\PipelineComponents\\Resources\\1033",
380          "C:\\Program Files\\Tanium\\Tanium Server\\ApacheBackup2014-09-16-20-44-23\\manual\\misc",
381          "C:\\Program Files\\Tanium\\Tanium Server\\Apache24\\manual\\misc",
382          "C:\\Program Files\\Common Files\\SpeechEngines\\Microsoft\\TTS20\\en-US",
383          "C:\\Program Files\\Tanium\\Tanium Server\\ApacheBackup2014-11-17-11-17-33\\modules",
384          "C:\\Program Files\\Microsoft SQL Server\\110\\DTS\\Connections",
385          "C:\\Program Files\\Tanium\\Tanium Server\\Downloads\\URLCache",
386          "C:\\Program Files\\Microsoft SQL Server\\110\\Setup Bootstrap\\SQLServer2012\\1046_PTB_LP
387          "C:\\Program Files\\Tanium\\Tanium Server\\ApacheBackup2014-09-16-20-44-23\\manual\\rewrit
388          "C:\\Program Files\\Tanium\\Tanium Server\\ApacheBackup2014-11-17-11-17-33\\manual\\images
389          "C:\\Program Files\\Common Files\\VMware\\Drivers\\vmci\\device",
390          "C:\\Program Files\\Tanium\\Tanium Server\\ApacheBackup2014-11-17-11-17-33\\manual\\rewrit
391          "C:\\Program Files\\Common Files",
392          "C:\\Program Files\\Tanium\\Tanium Server\\Apache24\\manual",
393          "C:\\Program Files\\Tanium\\Tanium Server\\ApacheBackup2014-09-16-20-44-23\\manual\\platfo
394          "C:\\Program Files\\Tanium\\Tanium Server\\Apache24\\conf\\extra",
395          "C:\\Program Files\\Common Files\\VMware\\Drivers\\vmci",
396          "C:\\Program Files\\Common Files\\System\\msadc\\en-US",
397          "C:\\Program Files\\Common Files\\System",
398          "C:\\Program Files\\Windows NT\\Accessories\\en-US",
399          "C:\\Program Files\\Microsoft SQL Server\\110\\Setup Bootstrap\\SQLServer2012\\1036_FRA_LP
400          "C:\\Program Files\\Microsoft SQL Server\\MSSQL11.SQLEXPRESS\\MSSQL\\Binn\\Resources",
401          "C:\\Program Files\\Tanium\\Tanium Server\\plugins\\console\\RegistrySetting",
402          "C:\\Program Files\\Microsoft SQL Server\\110\\Setup Bootstrap\\SQLServer2012\\1046_PTB_LP
403          "C:\\Program Files\\Tanium\\Tanium Server\\Apache24\\manual\\rewrite",
404          "C:\\Program Files\\VMware\\VMware Tools",
405          "C:\\Program Files\\Common Files\\Microsoft Shared\\ink\\fsdefinitions\\numbers",
406          "C:\\Program Files\\Microsoft SQL Server\\110\\Setup Bootstrap\\SQLServer2012\\1049_RUS_LP
407          "C:\\Program Files\\Microsoft SQL Server\\MSSQL11.SQLEXPRESS\\MSSQL\\Log",
408          "C:\\Program Files\\Tanium\\Tanium Server\\ApacheBackup2014-09-16-20-44-23\\lib",
409          "C:\\Program Files\\Windows NT\\TableTextService",
410          "C:\\Program Files\\Microsoft SQL Server\\MSSQL11.SQLEXPRESS\\MSSQL\\Binn\\Resources\\1055
411          "C:\\Program Files\\Microsoft SQL Server\\MSSQL11.SQLEXPRESS\\MSSQL\\Binn\\Resources\\1053
412          "C:\\Program Files\\Microsoft SQL Server\\MSSQL11.SQLEXPRESS\\MSSQL\\Binn\\Resources\\1049
413          "C:\\Program Files\\Microsoft SQL Server\\MSSQL11.SQLEXPRESS\\MSSQL\\Binn\\Resources\\1041
414          "C:\\Program Files\\Microsoft SQL Server\\MSSQL11.SQLEXPRESS\\MSSQL\\Binn\\Resources\\1040
415          "C:\\Program Files\\Microsoft SQL Server\\MSSQL11.SQLEXPRESS\\MSSQL\\Binn\\Resources\\1043
416          "C:\\Program Files\\Microsoft SQL Server\\MSSQL11.SQLEXPRESS\\MSSQL\\Binn\\Resources\\1042
417          "C:\\Program Files\\Microsoft SQL Server\\MSSQL11.SQLEXPRESS\\MSSQL\\Binn\\Resources\\1045
418          "C:\\Program Files\\Microsoft SQL Server\\MSSQL11.SQLEXPRESS\\MSSQL\\Binn\\Resources\\1044
419          "C:\\Program Files\\Microsoft SQL Server\\MSSQL11.SQLEXPRESS\\MSSQL\\Binn\\Resources\\1046
420          "C:\\Program Files\\Microsoft SQL Server\\MSSQL11.SQLEXPRESS\\MSSQL\\Binn\\Resources\\1038
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421              "C:\\Program Files\\Microsoft SQL Server\\MSSQL11.SQLEXPRESS\\MSSQL\\Binn\\Resources\\1035
422              "C:\\Program Files\\Microsoft SQL Server\\MSSQL11.SQLEXPRESS\\MSSQL\\Binn\\Resources\\1036
423              "C:\\Program Files\\Microsoft SQL Server\\MSSQL11.SQLEXPRESS\\MSSQL\\Binn\\Resources\\1030
424              "C:\\Program Files\\Microsoft SQL Server\\MSSQL11.SQLEXPRESS\\MSSQL\\Binn\\Resources\\1031
425              "C:\\Program Files\\Microsoft SQL Server\\MSSQL11.SQLEXPRESS\\MSSQL\\Binn\\Resources\\1032
426              "C:\\Program Files\\Microsoft SQL Server\\MSSQL11.SQLEXPRESS\\MSSQL\\Binn\\Resources\\1033
427              "C:\\Program Files\\Microsoft SQL Server\\MSSQL11.SQLEXPRESS\\MSSQL\\Binn\\Resources\\1029
428              "C:\\Program Files\\Microsoft SQL Server\\MSSQL11.SQLEXPRESS\\MSSQL\\Binn\\Resources\\1028
429              "C:\\Program Files\\Tanium\\Tanium Server\\Apache24\\htdocs\\console",
430              "C:\\Program Files\\Microsoft SQL Server\\110\\Setup Bootstrap\\SQLServer2012\\1042_KOR_LP
431              "C:\\Program Files\\Tanium\\Tanium Server\\Apache24\\error",
432              "C:\\Program Files\\Common Files\\Microsoft Shared\\ink\\nb-NO",
433              "C:\\Program Files\\Tanium\\Tanium Server\\Apache24\\manual\\mod",
434              "C:\\Program Files\\Microsoft SQL Server\\110\\Setup Bootstrap\\SQLServer2012\\1041_JPN_LP
435              "C:\\Program Files\\Common Files\\Microsoft Shared\\ink\\lv-LV",
436              "C:\\Program Files\\Tanium\\Tanium Server\\ApacheBackup2014-09-16-20-44-23\\manual",
437              "C:\\Program Files\\Microsoft SQL Server\\110\\Setup Bootstrap\\SQLServer2012\\1033_ENU_LP
438              "C:\\Program Files\\Tanium\\Tanium Server\\ApacheBackup2014-09-16-20-44-23\\conf\\original
439              "C:\\Program Files\\Common Files\\Microsoft Shared\\ink\\fsdefinitions\\auxpad",
440              "C:\\Program Files\\Common Files\\Microsoft Shared\\TextConv",
441              "C:\\Program Files\\Tanium\\Tanium Server\\ApacheBackup2014-09-16-20-44-23\\manual\\develo
442              "C:\\Program Files\\Common Files\\Microsoft Shared\\MSInfo\\en-US",
443              "C:\\Program Files\\Microsoft SQL Server\\110\\Setup Bootstrap\\SQLServer2012\\3082_ESN_LP
444              "C:\\Program Files\\Common Files\\Microsoft Shared\\ink\\nl-NL",
445              "C:\\Program Files\\Tanium",
446              "C:\\Program Files\\Tanium\\Tanium Server\\ApacheBackup2014-11-17-11-17-33\\manual\\howto"
447              "C:\\Program Files\\Tanium\\Tanium Server\\ApacheBackup2014-11-17-11-17-33\\include",
448              "C:\\Program Files\\Reference Assemblies\\Microsoft\\Framework\\v3.5\\RedistList",
449              "C:\\Program Files\\Microsoft SQL Server\\110\\Setup Bootstrap\\Log\\20140910_112532\\Data
450              "C:\\Program Files\\Microsoft SQL Server\\100\\KeyFile\\1033",
451              "C:\\Program Files\\Microsoft SQL Server\\110\\Tools\\Binn\\Resources\\1033"
452              "C:\\Program Files\\Tanium\\Tanium Server\\Downloads\\Cache",
453              "C:\\Program Files\\Tanium\\Tanium Server\\ApacheBackup2014-11-17-11-17-33\\manual\\style\
454              "C:\\Program Files\\Microsoft SQL Server\\110\\Setup Bootstrap\\SQLServer2012\\3082_ESN_LP
455              "C:\\Program Files\\Tanium\\Tanium Server\\php55\\dev",
456              "C:\\Program Files\\Tanium\\Tanium Server\\ApacheBackup2014-11-17-11-17-33\\bin\\iconv",
457              "C:\\Program Files\\VMware\\VMware Tools\\messages\\zh_CN",
458              "C:\\Program Files\\Tanium\\Tanium Server\\Apache24\\manual\\vhosts",
459              "C:\\Program Files\\Common Files\\VMware\\Drivers\\vmci\\sockets",
460              "C:\\Program Files\\Microsoft SQL Server\\90\\Shared\\Resources\\1033",
461              "C:\\Program Files\\Tanium\\Tanium Server\\ApacheBackup2014-09-16-20-44-23\\conf",
462              "C:\\Program Files\\Common Files\\VMware",
463              "C:\\Program Files\\Common Files\\System\\msadc",
464              "C:\\Program Files\\Microsoft SQL Server\\110\\Tools",
465              "C:\\Program Files\\Tanium\\Tanium Server\\ApacheBackup2014-11-17-11-17-33\\htdocs\\php",
466              "C:\\Program Files\\Microsoft SQL Server\\110\\Setup Bootstrap\\SQLServer2012\\1040_ITA_LP
467              "C:\\Program Files\\Common Files\\Microsoft Shared\\ink\\fr-FR",
468              "C:\\Program Files\\Common Files\\VMware\\Drivers\\vss",
469              "C:\\Program Files\\Tanium\\Tanium Server\\ApacheBackup2014-11-17-11-17-33\\bin",
470              "C:\\Program Files\\Common Files\\Microsoft Shared\\ink\\tr-TR",
471              "C:\\Program Files\\Tanium\\Tanium Server\\ApacheBackup2014-11-17-11-17-33\\manual\\progra
472              "C:\\Program Files\\Common Files\\Microsoft Shared\\VC",
473              "C:\\Program Files\\Tanium\\Tanium Server\\php55\\ext",
474              "C:\\Program Files\\Common Files\\Microsoft Shared\\WF",
475              "C:\\Program Files\\Tanium\\Tanium Server\\ApacheBackup2014-09-16-20-44-23\\manual\\ssl",
476              "C:\\Program Files\\Tanium\\Tanium Server\\ApacheBackup2014-11-17-11-17-33\\htdocs",
477              "C:\\Program Files\\Tanium\\Tanium Server\\ApacheBackup2014-11-17-11-17-33\\htdocs\\consol
478              "C:\\Program Files\\Microsoft SQL Server\\MSSQL11.SQLEXPRESS\\MSSQL\\Binn\\Templates",
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479             "C:\\Program Files\\Tanium\\Tanium Server\\plugins",
480             "C:\\Program Files\\Tanium\\Tanium Server\\Apache24\\icons\\small",
481             "C:\\Program Files\\Microsoft SQL Server\\110\\Shared\\en",
482             "C:\\Program Files\\Tanium\\Tanium Server\\ApacheBackup2014-09-16-20-44-23\\htdocs\\php\\A
483             "C:\\Program Files\\Tanium\\Tanium Server\\ApacheBackup2014-09-16-20-44-23\\error\\include
484             "C:\\Program Files\\Microsoft SQL Server\\100\\Setup Bootstrap\\Release\\x64\\Help",
485             "C:\\Program Files\\Microsoft Help Viewer\\v1.0\\Microsoft Help Viewer 1.1",
486             "C:\\Program Files\\Microsoft SQL Server\\110\\Tools\\Binn\\ManagementStudio",
487             "C:\\Program Files\\Common Files\\Microsoft Shared\\ink\\fsdefinitions\\symbols",
488             "C:\\Program Files\\Microsoft SQL Server\\110\\Setup Bootstrap\\SQLServer2012\\1036_FRA_LP
489             "C:\\Program Files\\Tanium\\Tanium Server\\ApacheBackup2014-11-17-11-17-33\\manual",
490             "C:\\Program Files\\Common Files\\System\\Ole DB\\en-US",
491             "C:\\Program Files\\Microsoft SQL Server\\110\\Tools\\Binn\\ManagementStudio\\Extensions",
492             "C:\\Program Files\\Microsoft SQL Server\\80\\Tools\\Binn",
493             "C:\\Program Files\\Microsoft SQL Server\\110\\Setup Bootstrap\\SQLServer2012\\2052_CHS_LP
494             "C:\\Program Files\\Common Files\\Microsoft Shared\\ink\\lt-LT",
495             "C:\\Program Files\\Microsoft SQL Server\\MSSQL11.SQLEXPRESS\\MSSQL\\Binn",
496             "C:\\Program Files\\Microsoft SQL Server\\110\\Setup Bootstrap\\SQLServer2012\\x64",
497             "C:\\Program Files\\Tanium\\Tanium Server\\ApacheBackup2014-09-16-20-44-23\\htdocs",
498             "C:\\Program Files\\Microsoft SQL Server\\100\\KeyFile",
499             "C:\\Program Files\\Tanium\\Tanium Server\\ApacheBackup2014-11-17-11-17-33\\manual\\style"
500             "C:\\Program Files\\Microsoft SQL Server\\MSSQL11.SQLEXPRESS\\MSSQL\\Install",
501             "C:\\Program Files\\Common Files\\Microsoft Shared\\ink\\et-EE",
502             "C:\\Program Files\\Microsoft SQL Server\\110\\Setup Bootstrap\\SQLServer2012\\1028_CHT_LP
503             "C:\\Program Files\\Microsoft SQL Server\\110\\Setup Bootstrap\\SQLServer2012\\1040_ITA_LP
504             "C:\\Program Files\\Microsoft SQL Server\\110\\Setup Bootstrap\\SQLServer2012\\1028_CHT_LP
505             "C:\\Program Files\\Common Files\\VMware\\Drivers\\Virtual Printer\\TPOGPS",
506             "C:\\Program Files\\Common Files\\Microsoft Shared\\ink\\cs-CZ",
507             "C:\\Program Files\\Microsoft SQL Server\\110\\Setup Bootstrap\\SQLServer2012\\2052_CHS_LP
508             "C:\\Program Files\\VMware",
509             "C:\\Program Files\\Microsoft SQL Server\\110\\Shared\\VS2008",
510             "C:\\Program Files\\Microsoft Visual Studio 10.0\\Common7\\Packages\\Debugger",
511             "C:\\Program Files\\Common Files\\VMware\\Drivers\\mouse",
512             "C:\\Program Files\\Common Files\\VMware\\Drivers\\vmci\\sockets\\bin",
513             "C:\\Program Files\\Tanium\\Tanium Server\\ApacheBackup2014-09-16-20-44-23\\bin\\iconv",
514             "C:\\Program Files\\Common Files\\Microsoft Shared\\ink\\en-US",
515             "C:\\Program Files\\Microsoft SQL Server\\MSSQL11.SQLEXPRESS\\MSSQL\\Backup"
516             "C:\\Program Files\\Tanium\\Tanium Server\\VB",
517             "C:\\Program Files\\Microsoft SQL Server\\110\\DTS\\ForEachEnumerators\\Resources\\1033",
518             "C:\\Program Files\\Tanium\\Tanium Server\\ApacheBackup2014-11-17-11-17-33\\manual\\vhosts
519             "C:\\Program Files\\Common Files\\Microsoft Shared\\ink\\bg-BG",
520             "C:\\Program Files\\Tanium\\Tanium Server\\ApacheBackup2014-11-17-11-17-33\\manual\\ssl",
521             "C:\\Program Files\\Tanium\\Tanium Server\\Apache24\\bin",
522             "C:\\Program Files\\Common Files\\System\\Ole DB",
523             "C:\\Program Files\\Tanium\\Tanium Server\\Apache24\\manual\\faq",
524             "C:\\Program Files\\Microsoft SQL Server\\MSSQL11.SQLEXPRESS",
525             "C:\\Program Files\\Common Files\\VMware\\Drivers\\audio",
526             "C:\\Program Files\\Microsoft SQL Server\\110\\DTS\\Binn\\Resources",
527             "C:\\Program Files\\Microsoft SQL Server\\110\\Setup Bootstrap\\SQLServer2012\\1041_JPN_LP
528             "C:\\Program Files\\Reference Assemblies\\Microsoft\\Framework\\v3.0\\RedistList",
529             "C:\\Program Files\\Tanium\\Tanium Server\\Downloads",
530             "C:\\Program Files\\Microsoft SQL Server\\110\\Setup Bootstrap\\SQLServer2012\\1049_RUS_LP
531             "C:\\Program Files\\Microsoft Visual Studio 10.0\\Common7\\Packages\\Debugger\\x86",
532             "C:\\Program Files\\Microsoft Visual Studio 10.0\\Common7\\Packages\\Debugger\\X64",
533             "C:\\Program Files\\MSBuild\\Microsoft\\Windows Workflow Foundation",
534             "C:\\Program Files\\Microsoft SQL Server\\100\\Shared",
535             "C:\\Program Files\\Internet Explorer\\SIGNUP",
536             "C:\\Program Files\\Common Files\\Microsoft Shared\\ink\\es-ES",
```

```
537             "C:\\Program Files\\Tanium\\Tanium Server\\Support",
538             "C:\\Program Files\\Microsoft SQL Server\\110\\DTS\\Binn",
539             "C:\\Program Files\\Common Files\\Microsoft Shared\\MSInfo",
540             "C:\\Program Files\\Reference Assemblies",
541             "C:\\Program Files\\Microsoft SQL Server\\110\\Shared\\RsFxInstall",
542             "C:\\Program Files\\Microsoft Help Viewer\\v1.0\\CatalogInfo",
543             "C:\\Program Files\\Microsoft SQL Server\\110\\DTS\\MappingFiles",
544             "C:\\Program Files\\Microsoft SQL Server\\110\\DTS\\PipelineComponents\\Resources",
545             "C:\\Program Files\\Common Files\\Microsoft Shared\\WF\\amd64",
546             "C:\\Program Files\\Tanium\\Tanium Server\\plugins\\console\\SigVerifier",
547             "C:\\Program Files\\Tanium\\Tanium Server\\plugins\\console\\DashboardGroups",
548             "C:\\Program Files\\Microsoft SQL Server\\80\\Tools",
549             "C:\\Program Files\\Microsoft SQL Server\\MSSQL11.SQLEXPRESS\\MSSQL\\Template Data",
550             "C:\\Program Files\\Tanium\\Tanium Server\\ApacheBackup2014-09-16-20-44-23\\icons",
551             "C:\\Program Files\\Common Files\\Microsoft Shared\\ink\\de-DE",
552             "C:\\Program Files\\Microsoft SQL Server\\110\\Setup Bootstrap\\SQLServer2012\\1031_DEU_LP
553             "C:\\Program Files\\Microsoft SQL Server\\110\\Setup Bootstrap\\SQLServer2012\\1042_KOR_LP
554             "C:\\Program Files\\Microsoft Visual Studio 10.0\\Common7\\IDE",
555             "C:\\Program Files\\Microsoft SQL Server\\110\\Setup Bootstrap\\SQLServer2012\\1033_ENU_LP
556             "C:\\Program Files\\Common Files\\Microsoft Shared\\ink\\fsdefinitions\\main",
557             "C:\\Program Files\\Microsoft Help Viewer\\v1.0\\StopWords",
558             "C:\\Program Files\\Microsoft SQL Server\\110\\Tools\\Binn\\ManagementStudio\\Extensions\\
559             "C:\\Program Files\\Microsoft SQL Server\\110\\Setup Bootstrap",
560             "C:\\Program Files\\Microsoft SQL Server\\MSSQL11.SQLEXPRESS\\MSSQL\\repldata",
561             "C:\\Program Files\\Microsoft SQL Server\\110\\Setup Bootstrap\\SQLServer2012\\x64\\zh-CHT
562             "C:\\Program Files\\Microsoft SQL Server\\110\\Setup Bootstrap\\SQLServer2012\\x64\\zh-CHS
563             "C:\\Program Files\\Tanium\\Tanium Server\\ApacheBackup2014-09-16-20-44-23\\manual\\vhosts
564             "C:\\Program Files\\Microsoft SQL Server\\110\\Setup Bootstrap\\SQLServer2012\\1042_KOR_LP
565             "C:\\Program Files\\Microsoft SQL Server\\110\\DTS\\Tasks\\en",
566             "C:\\Program Files\\Common Files\\SpeechEngines",
567             "C:\\Program Files\\Tanium\\Tanium Server\\ApacheBackup2014-09-16-20-44-23\\logs",
568             "C:\\Program Files\\Tanium\\Tanium Server\\ApacheBackup2014-09-16-20-44-23\\manual\\mod",
569             "C:\\Program Files\\VMware\\VMware Tools\\Drivers\\hgfs",
570             "C:\\Program Files\\Tanium\\Tanium Server\\Apache24\\conf\\original",
571             "C:\\Program Files\\Uninstall Information",
572             "C:\\Program Files\\Reference Assemblies\\Microsoft\\Framework\\v3.5",
573             "C:\\Program Files\\Reference Assemblies\\Microsoft\\Framework\\v3.0",
574             "C:\\Program Files\\Microsoft Visual Studio 10.0\\Common7\\IDE\\Xml",
575             "C:\\Program Files\\Microsoft SQL Server\\110\\DTS\\PipelineComponents",
576             "C:\\Program Files\\Microsoft SQL Server\\90\\Shared\\Resources",
577             "C:\\Program Files\\Microsoft SQL Server\\110\\Setup Bootstrap\\SQLServer2012\\1046_PTB_LP
578             "C:\\Program Files\\Tanium\\Tanium Server\\Apache24\\include",
579             "C:\\Program Files\\Tanium\\Tanium Server\\plugins\\console\\GroupFiliters",
580             "C:\\Program Files\\VMware\\VMware Tools\\Drivers",
581             "C:\\Program Files\\Microsoft SQL Server\\110\\Setup Bootstrap\\SQLServer2012\\1041_JPN_LP
582             "C:\\Program Files\\Tanium\\Tanium Server\\Downloads\\tmp",
583             "C:\\Program Files\\Microsoft SQL Server\\100\\Setup Bootstrap\\Release",
584             "C:\\Program Files\\Tanium\\Tanium Server\\Apache24\\conf\\original\\extra",
585             "C:\\Program Files\\Tanium\\Tanium Server\\ApacheBackup2014-11-17-11-17-33\\manual\\style\\
586             "C:\\Program Files\\Common Files\\Microsoft Shared\\ink\\sr-Latn-CS",
587             "C:\\Program Files\\Common Files\\Microsoft Shared\\ink\\fsdefinitions\\osknumpad",
588             "C:\\Program Files\\Microsoft SQL Server\\110\\License Terms",
589             "C:\\Program Files\\Microsoft SQL Server\\110\\Setup Bootstrap\\SQLServer2012",
590             "C:\\Program Files\\Microsoft SQL Server\\110\\Setup Bootstrap\\SQLServer2012\\1031_DEU_LP
591             "C:\\Program Files\\Common Files\\VMware\\Drivers\\vmxnet",
592             "C:\\Program Files\\Tanium\\Tanium Server\\Strings",
593             "C:\\Program Files\\MSBuild",
594             "C:\\Program Files\\Microsoft SQL Server\\110\\COM\\Resources",
```

```
595           "C:\\Program Files\\Common Files\\VMware\\Drivers\\Virtual Printer\\TPOGPS\\amd64",
596           "C:\\Program Files\\Microsoft SQL Server\\80\\COM",
597           "C:\\Program Files\\Tanium\\Tanium Server\\ApacheBackup2014-09-16-20-44-23\\htdocs\\consol
598           "C:\\Program Files\\Tanium\\Tanium Server\\Apache24\\manual\\howto",
599           "C:\\Program Files\\Microsoft SQL Server\\110\\Shared\\Resources\\1033",
600           "C:\\Program Files\\Tanium\\Tanium Server\\ApacheBackup2014-09-16-20-44-23\\conf\\extra",
601           "C:\\Program Files\\Common Files\\Microsoft Shared\\MSEnv",
602           "C:\\Program Files\\Microsoft SQL Server\\110\\Setup Bootstrap\\SQLServer2012\\2052_CHS_LP
603           "C:\\Program Files\\Common Files\\VMware\\Drivers\\Virtual Printer",
604           "C:\\Program Files\\Tanium\\Tanium Server\\ApacheBackup2014-11-17-11-17-33\\htdocs\\consol
605           "C:\\Program Files\\Microsoft SQL Server\\110\\Setup Bootstrap\\SQLServer2012\\1028_CHT_LP
606           "C:\\Program Files\\Microsoft SQL Server\\110\\Shared\\VS2008\\1033",
607           "C:\\Program Files\\Common Files\\Microsoft Shared\\ink\\pt-BR",
608           "C:\\Program Files\\Common Files\\Microsoft Shared\\ink\\pt-PT",
609           "C:\\Program Files\\Common Files\\System\\ado",
610           "C:\\Program Files\\Microsoft SQL Server\\110\\KeyFile\\1033",
611           "C:\\Program Files\\Tanium\\Tanium Server\\SOAPUpload",
612           "C:\\Program Files\\Microsoft SQL Server\\110\\Setup Bootstrap\\SQLServer2012\\Resources\\
613           "C:\\Program Files\\Microsoft SQL Server\\110\\Setup Bootstrap\\Log\\20140910_112604\\reso
614           "C:\\Program Files\\Microsoft SQL Server\\MSSQL11.SQLEXPRESS\\MSSQL\\DATA",
615           "C:\\Program Files\\Tanium\\Tanium Server\\php55\\extras\\ssl",
616           "C:\\Program Files\\Common Files\\Microsoft Shared\\ink\\el-GR",
617           "C:\\Program Files\\VMware\\VMware Tools\\win32",
618           "C:\\Program Files\\VMware\\VMware Tools\\win64",
619           "C:\\Program Files\\Microsoft SQL Server\\110\\Shared\\Resources",
620           "C:\\Program Files\\Internet Explorer",
621           "C:\\Program Files\\Tanium\\Tanium Server\\Apache24\\icons",
622           "C:\\Program Files\\Microsoft SQL Server\\110\\Setup Bootstrap\\SQLServer2012\\1033_ENU_LP
623           "C:\\Program Files\\Microsoft SQL Server\\MSSQL11.SQLEXPRESS\\MSSQL",
624           "C:\\Program Files\\Microsoft SQL Server\\110\\Setup Bootstrap\\SQLServer2012\\1031_DEU_LP
625           "C:\\Program Files\\Tanium\\Tanium Server\\Apache24\\manual\\programs",
626           "C:\\Program Files\\Common Files\\VMware\\Drivers\\vmxnet3",
627           "C:\\Program Files\\Microsoft SQL Server\\110\\Setup Bootstrap\\SQLServer2012\\1049_RUS_LP
628           "C:\\Program Files\\VMware\\VMware Tools\\Drivers\\hgfs\\wow64",
629           "C:\\Program Files\\Microsoft SQL Server\\110\\Setup Bootstrap\\Log",
630           "C:\\Program Files\\Microsoft SQL Server\\90\\License Terms\\1033",
631           "C:\\Program Files\\Tanium\\Tanium Server\\ApacheBackup2014-11-17-11-17-33\\logs",
632           "C:\\Program Files\\Tanium\\Tanium Server\\ApacheBackup2014-11-17-11-17-33\\manual\\faq",
633           "C:\\Program Files\\Tanium\\Tanium Server\\Suppot_patch1",
634           "C:\\Program Files\\Common Files\\Microsoft Shared\\ink\\fsdefinitions\\web",
635           "C:\\Program Files\\Tanium\\Tanium Server\\ApacheBackup2014-11-17-11-17-33\\cgi-bin",
636           "C:\\Program Files\\Tanium\\Tanium Server\\Apache24\\manual\\developer",
637           "C:\\Program Files\\Microsoft SQL Server\\110\\Setup Bootstrap\\SQLServer2012\\Resources\\
638           "C:\\Program Files\\Microsoft SQL Server\\110\\Setup Bootstrap\\SQLServer2012\\Resources\\
639           "C:\\Program Files\\Microsoft SQL Server\\110\\Setup Bootstrap\\SQLServer2012\\Resources\\
640           "C:\\Program Files\\Microsoft SQL Server\\110\\Setup Bootstrap\\SQLServer2012\\Resources\\
641           "C:\\Program Files\\Microsoft SQL Server\\110\\Setup Bootstrap\\SQLServer2012\\Resources\\
642           "C:\\Program Files\\Microsoft SQL Server\\110\\Setup Bootstrap\\SQLServer2012\\Resources\\
643           "C:\\Program Files\\Microsoft SQL Server\\110\\Setup Bootstrap\\SQLServer2012\\Resources\\
644           "C:\\Program Files\\Microsoft SQL Server\\110\\Setup Bootstrap\\SQLServer2012\\Resources\\
645           "C:\\Program Files\\Microsoft SQL Server\\110\\Setup Bootstrap\\SQLServer2012\\Resources\\
646           "C:\\Program Files\\Microsoft SQL Server\\100\\Setup Bootstrap\\Release\\x64",
647           "C:\\Program Files\\Tanium\\Tanium Server\\Apache24\\manual\\style\\latex",
648           "C:\\Program Files\\Tanium\\Tanium Server",
649           "C:\\Program Files\\Tanium\\Tanium Server\\ApacheBackup2014-09-16-20-44-23\\htdocs\\consol
650           "C:\\Program Files\\Tanium\\Tanium Server\\http",
651           "C:\\Program Files\\Common Files\\Microsoft Shared\\ink\\ja-JP",
652           "C:\\Program Files\\Microsoft SQL Server\\110\\DTS\\Packages",
```

```
653            "C:\\Program Files\\Common Files\\Microsoft Shared\\ink\\sk-SK",
654            "C:\\Program Files\\Tanium\\Tanium Server\\ApacheBackup2014-11-17-11-17-33\\manual\\style\
655            "C:\\Program Files\\Tanium\\Tanium Server\\ApacheBackup2014-11-17-11-17-33\\conf\\original
656            "C:\\Program Files\\Tanium\\Tanium Server\\Apache24\\htdocs\\php",
657            "C:\\Program Files\\Tanium\\Tanium Server\\ApacheBackup2014-09-16-20-44-23\\manual\\howto"
658            "C:\\Program Files\\Tanium\\Tanium Server\\ApacheBackup2014-09-16-20-44-23\\manual\\style\
659            "C:\\Program Files\\Common Files\\Microsoft Shared\\ink\\hr-HR",
660            "C:\\Program Files\\Common Files\\VMware\\Drivers",
661            "C:\\Program Files\\Tanium\\Tanium Server\\Apache24\\lib",
662            "C:\\Program Files\\Microsoft SQL Server\\110\\Setup Bootstrap\\Log\\20140910_112532",
663            "C:\\Program Files\\Microsoft Help Viewer\\v1.0",
664            "C:\\Program Files\\Tanium\\Tanium Server\\ApacheBackup2014-11-17-11-17-33\\conf\\extra",
665            "C:\\Program Files\\Tanium\\Tanium Server\\Apache24",
666            "C:\\Program Files\\Tanium\\Tanium Server\\ApacheBackup2014-09-16-20-44-23\\manual\\style\
667            "C:\\Program Files\\Common Files\\Microsoft Shared\\VGX",
668            "C:\\Program Files\\Microsoft SQL Server\\110\\DTS\\ProviderDescriptors",
669            "C:\\Program Files\\Microsoft SQL Server\\110\\COM\\en",
670            "C:\\Program Files\\Tanium\\Tanium Server\\ApacheBackup2014-09-16-20-44-23\\manual\\faq",
671            "C:\\Program Files\\Tanium\\Tanium Server\\Apache24\\manual\\style\\scripts",
672            "C:\\Program Files\\Common Files\\Microsoft Shared\\Triedit\\en-US",
673            "C:\\Program Files\\Microsoft SQL Server\\100\\Setup Bootstrap\\Release\\x64\\Help\\1033",
674            "C:\\Program Files\\Microsoft SQL Server\\110\\COM",
675            "C:\\Program Files\\Microsoft SQL Server\\110\\Setup Bootstrap\\SQLServer2012\\1046_PTB_LP
676            "C:\\Program Files\\Microsoft SQL Server\\110\\Setup Bootstrap\\Log\\20140910_112831\\Data
677            "C:\\Program Files\\Common Files\\Microsoft Shared\\TextConv\\en-US",
678            "C:\\Program Files\\VMware\\VMware Tools\\plugins",
679            "C:\\Program Files\\Microsoft SQL Server\\110\\DTS",
680            "C:\\Program Files\\Tanium\\Tanium Server\\plugins\\console\\SavedQuestions",
681            "C:\\Program Files\\Tanium\\Tanium Server\\ApacheBackup2014-11-17-11-17-33\\error\\include
682            "C:\\Program Files\\Common Files\\System\\ado\\en-US",
683            "C:\\Program Files\\Tanium\\Tanium Server\\Apache24\\cgi-bin",
684            "C:\\Program Files\\Microsoft SQL Server\\110\\Setup Bootstrap\\Log\\20140910_112604",
685            "C:\\Program Files\\VMware\\VMware Tools\\plugins\\vmusr",
686            "C:\\Program Files\\Microsoft SQL Server\\110\\Setup Bootstrap\\Log\\20140910_112831\\Data
687            "C:\\Program Files\\Microsoft SQL Server\\MSSQL11.SQLEXPRESS\\MSSQL\\Binn\\DllTmp64",
688            "C:\\Program Files\\Microsoft SQL Server\\MSSQL11.SQLEXPRESS\\MSSQL\\Binn\\DllTmp32",
689            "C:\\Program Files\\Tanium\\Tanium Server\\ApacheBackup2014-09-16-20-44-23\\manual\\progra
690            "C:\\Program Files\\Microsoft SQL Server\\110\\Tools\\Binn\\Resources",
691            "C:\\Program Files\\Tanium\\Tanium Server\\php55",
692            "C:\\Program Files\\Tanium\\Tanium Server\\ApacheBackup2014-09-16-20-44-23\\manual\\style"
693            "C:\\Program Files\\Microsoft SQL Server\\110\\Setup Bootstrap\\SQLServer2012\\1040_ITA_LP
694            "C:\\Program Files\\Reference Assemblies\\Microsoft",
695            "C:\\Program Files\\Tanium\\Tanium Server\\ApacheBackup2014-09-16-20-44-23\\include",
696            "C:\\Program Files\\Tanium\\Tanium Server\\Apache24\\manual\\images",
697            "C:\\Program Files\\Common Files\\Microsoft Shared\\ink\\fsdefinitions",
698            "C:\\Program Files\\Microsoft SQL Server\\110\\SDK\\Assemblies\\en",
699            "C:\\Program Files\\Tanium\\Tanium Server\\Logs",
700            "C:\\Program Files\\Tanium\\Tanium Server\\ApacheBackup2014-11-17-11-17-33\\manual\\mod",
701            "C:\\Program Files\\Common Files\\VMware\\Drivers\\Virtual Printer\\TPOG3",
702            "C:\\Program Files\\Microsoft SQL Server\\110",
703            "C:\\Program Files\\Microsoft SQL Server\\100",
704            "C:\\Program Files\\Tanium\\Tanium Server\\Apache24\\modules",
705            "C:\\Program Files\\Tanium\\Tanium Server\\ApacheBackup2014-11-17-11-17-33\\manual\\platfo
706            "C:\\Program Files\\Microsoft Visual Studio 10.0",
707            "C:\\Program Files\\Microsoft SQL Server\\MSSQL11.SQLEXPRESS\\MSSQL\\Binn\\Resources\\3082
708            "C:\\Program Files\\Microsoft SQL Server\\110\\Setup Bootstrap\\Log\\20140910_112831",
709            "C:\\Program Files\\VMware\\VMware Tools\\plugins\\common",
710            "C:\\Program Files\\Microsoft SQL Server\\110\\Setup Bootstrap\\Log\\20140910_112804",
```

```
711            "C:\\Program Files\\Common Files\\Microsoft Shared\\ink\\th-TH",
712            "C:\\Program Files\\Tanium\\Tanium Server\\ApacheBackup2014-11-17-11-17-33\\icons",
713            "C:\\Program Files\\Microsoft SQL Server\\110\\Setup Bootstrap\\Log\\20140910_112831\\Data
714            "C:\\Program Files\\Tanium\\Tanium Server\\ApacheBackup2014-11-17-11-17-33\\error",
715            "C:\\Program Files\\Microsoft SQL Server",
716            "C:\\Program Files\\Tanium\\Tanium Server\\ApacheBackup2014-09-16-20-44-23\\error",
717            "C:\\Program Files\\Microsoft SQL Server\\110\\Setup Bootstrap\\SQLServer2012\\3082_ESN_LP
718            "C:\\Program Files\\Common Files\\Microsoft Shared\\SQL Debugging",
719            "C:\\Program Files\\Tanium\\Tanium Server\\Apache24\\error\\include",
720            "C:\\Program Files\\Microsoft SQL Server\\110\\SDK\\Assemblies",
721            "C:\\Program Files\\Microsoft SQL Server\\110\\Setup Bootstrap\\SQLServer2012\\x64\\Patch"
722            "C:\\Program Files\\Microsoft Help Viewer\\v1.0\\en",
723            "C:\\Program Files\\Microsoft SQL Server\\110\\Setup Bootstrap\\SQLServer2012\\3082_ESN_LP
724            "C:\\Program Files\\Microsoft SQL Server\\90\\Shared",
725            "C:\\Program Files\\Microsoft SQL Server\\MSSQL11.SQLEXPRESS\\MSSQL\\Binn\\Resources\\2052
726            "C:\\Program Files\\Microsoft SQL Server\\MSSQL11.SQLEXPRESS\\MSSQL\\Binn\\Resources\\2070
727            "C:\\Program Files\\Tanium\\Tanium Server\\ApacheBackup2014-11-17-11-17-33\\conf\\original
728            "C:\\Program Files\\Tanium\\Tanium Server\\ApacheBackup2014-11-17-11-17-33\\manual\\develo
729            "C:\\Program Files\\Common Files\\Microsoft Shared\\ink\\pl-PL",
730            "C:\\Program Files\\Common Files\\SpeechEngines\\Microsoft\\TTS20\\en-US\\enu-dsk",
731            "C:\\Program Files\\Common Files\\Microsoft Shared\\Stationery",
732            "C:\\Program Files\\Common Files\\Microsoft Shared\\VS7Debug\\1033",
733            "C:\\Program Files\\Microsoft SQL Server\\100\\Setup Bootstrap\\Bin",
734            "C:\\Program Files\\Microsoft SQL Server\\110\\Setup Bootstrap\\SQLServer2012\\Resources",
735            "C:\\Program Files\\Microsoft SQL Server\\110\\Shared\\ErrorDumps",
736            "C:\\Program Files\\Internet Explorer\\en-US",
737            "C:\\Program Files\\VMware\\VMware Tools\\messages\\it",
738            "C:\\Program Files\\VMware\\VMware Tools\\messages\\ja",
739            "C:\\Program Files\\VMware\\VMware Tools\\messages\\ko",
740            "C:\\Program Files\\VMware\\VMware Tools\\messages\\de",
741            "C:\\Program Files\\VMware\\VMware Tools\\messages\\es",
742            "C:\\Program Files\\VMware\\VMware Tools\\messages\\fr",
743            "C:\\Program Files\\Microsoft SQL Server\\110\\Setup Bootstrap\\SQLServer2012\\1036_FRA_LP
744            "C:\\Program Files\\Microsoft SQL Server\\110\\DTS\\Tasks"
745          ],
746          "column.what_hash": 2945266020
747        },
748        {
749          "column.display_name": "Count",
750          "column.result_type": "NumericDecimal",
751          "column.values": [
752            "1"
753          ],
754          "column.what_hash": 0
755        }
756      ]
757    }
758  ]
```

Export resultset csv sort empty

Export a ResultSet from asking a question as CSV with an empty list for header_sort

Example Python Code

```python
1    # Path to lib directory which contains pytan package
2    PYTAN_LIB_PATH = '../lib'
3
4    # connection info for Tanium Server
5    USERNAME = "Tanium User"
6    PASSWORD = "T@n!um"
7    HOST = "172.16.31.128"
8    PORT = "444"
9
10   # Logging conrols
11   LOGLEVEL = 2
12   DEBUGFORMAT = False
13
14   import sys, tempfile
15   sys.path.append(PYTAN_LIB_PATH)
16
17   import pytan
18   handler = pytan.Handler(
19       username=USERNAME,
20       password=PASSWORD,
21       host=HOST,
22       port=PORT,
23       loglevel=LOGLEVEL,
24       debugformat=DEBUGFORMAT,
25   )
26
27   print handler
28
29   # setup the export_obj kwargs for later
30   export_kwargs = {}
31   export_kwargs["export_format"] = u'csv'
32   export_kwargs["header_sort"] = []
33
34   # ask the question that will provide the resultset that we want to use
35   ask_kwargs = {
36       'qtype': 'manual_human',
37       'sensors': [
38           "Computer Name", "IP Route Details", "IP Address",
39           'Folder Name Search with RegEx Match{dirname=Program Files,regex=.*Shared.*}',
40       ],
41   }
42   response = handler.ask(**ask_kwargs)
43
44   # export the object to a string
45   # (we could just as easily export to a file using export_to_report_file)
46   export_kwargs['obj'] = response['question_results']
47   export_str = handler.export_obj(**export_kwargs)
48
49
50   print ""
51   print "print the export_str returned from export_obj():"
52   print export_str
```

Output from Python Code

```
1   Handler for Session to 172.16.31.128:444, Authenticated: True, Version: 6.2.314.3258
2   2014-12-07 01:16:49,462 INFO     question_progress: Results 0% (Get Computer Name and IP Route Detai
3   2014-12-07 01:16:54,490 INFO     question_progress: Results 0% (Get Computer Name and IP Route Detai
4   2014-12-07 01:16:59,517 INFO     question_progress: Results 0% (Get Computer Name and IP Route Detai
5   2014-12-07 01:17:04,543 INFO     question_progress: Results 0% (Get Computer Name and IP Route Detai
6   2014-12-07 01:17:09,566 INFO     question_progress: Results 0% (Get Computer Name and IP Route Detai
7   2014-12-07 01:17:14,594 INFO     question_progress: Results 0% (Get Computer Name and IP Route Detai
8   2014-12-07 01:17:19,620 INFO     question_progress: Results 0% (Get Computer Name and IP Route Detai
9   2014-12-07 01:17:24,649 INFO     question_progress: Results 0% (Get Computer Name and IP Route Detai
10  2014-12-07 01:17:29,673 INFO     question_progress: Results 0% (Get Computer Name and IP Route Detai
11  2014-12-07 01:17:34,700 INFO     question_progress: Results 0% (Get Computer Name and IP Route Detai
12  2014-12-07 01:17:39,728 INFO     question_progress: Results 0% (Get Computer Name and IP Route Detai
13  2014-12-07 01:17:44,756 INFO     question_progress: Results 0% (Get Computer Name and IP Route Detai
14  2014-12-07 01:17:49,781 INFO     question_progress: Results 0% (Get Computer Name and IP Route Detai
15  2014-12-07 01:17:54,810 INFO     question_progress: Results 0% (Get Computer Name and IP Route Detai
16  2014-12-07 01:17:59,838 INFO     question_progress: Results 0% (Get Computer Name and IP Route Detai
17  2014-12-07 01:18:04,870 INFO     question_progress: Results 0% (Get Computer Name and IP Route Detai
18  2014-12-07 01:18:09,896 INFO     question_progress: Results 0% (Get Computer Name and IP Route Detai
19  2014-12-07 01:18:14,918 INFO     question_progress: Results 0% (Get Computer Name and IP Route Detai
20  2014-12-07 01:18:19,944 INFO     question_progress: Results 0% (Get Computer Name and IP Route Detai
21  2014-12-07 01:18:24,973 INFO     question_progress: Results 100% (Get Computer Name and IP Route Det
22
23  print the export_str returned from export_obj():
24  Computer Name,Destination,Flags,"Folder Name Search with RegEx Match[No, Program Files, No, ]",Gatew
25  Casus-Belli.local,"default
26  192.168.0
27  169.254
28  172.16.31/24
29  192.168.0.1/32
30  172.16.152/24
31  192.168.0.3/32","UGSc
32  UCS
33  UCS
34  UC
35  UCS
36  UC
37  UCS",Windows Only,"192.168.0.1
38  link#4
39  link#4
40  link#13
41  link#4
42  link#12
43  link#4","fe80::e896:c1c9:d927:bbe0
44  2604:2000:69e6:1a00:82e6:50ff:fe1d:1dca
45  172.16.31.1
46  fe80::82e6:50ff:fe1d:1dca
47  172.16.152.1
48  192.168.0.3
49  fe80::2886:21ff:fe7f:3ef4
50  2604:2000:69e6:1a00:95ad:5fe5:cf9e:5403
51  fd1b:56a6:50eb:cd49:e896:c1c9:d927:bbe0","en0
52  en0
53  en0
54  vmnet8
55  en0
56  vmnet1
57  en0","None
58  None
```

```
59   None
60   None
61   None
62   None
63   None","None
64   None
65   None
66   None
67   None
68   None
69   None"
70   jtanium1.localdomain,"172.16.31.128
71   172.16.31.0
72   127.0.0.1
73   0.0.0.0
74   127.0.0.0","-
75   -
76   -
77   -
78   -","C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-09-16-20-44-23\cgi-bin
79   C:\Program Files\VMware\VMware Tools\plugins\vmsvc
80   C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\1040_ITA_LP\x64\1040\help
81   C:\Program Files\Common Files\Microsoft Shared\VS7Debug
82   C:\Program Files\Tanium\Tanium Server\Apache24\manual\style
83   C:\Program Files\Tanium\Tanium Server\Apache24\htdocs\console\history
84   C:\Program Files\Common Files\VMware\Drivers\vmci\sockets\include
85   C:\Program Files\Common Files\Microsoft Shared\ink\ar-SA
86   C:\Program Files\Tanium\Tanium Server\plugins\console\Dashboards
87   C:\Program Files\Tanium\Tanium Server\CertificateBackup2014-11-17-11-17-33
88   C:\Program Files\Common Files\SpeechEngines\Microsoft
89   C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-09-16-20-44-23\modules
90   C:\Program Files\Common Files\Microsoft Shared\ink\ru-RU
91   C:\Program Files\Microsoft SQL Server\110\DTS\ForEachEnumerators\en
92   C:\Program Files\Tanium\Tanium Server\Apache24\htdocs\php\Auth
93   C:\Program Files\MSBuild\Microsoft\Windows Workflow Foundation\v3.0
94   C:\Program Files\MSBuild\Microsoft\Windows Workflow Foundation\v3.5
95   C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\2052_CHS_LP\x64
96   C:\Program Files\Common Files\Microsoft Shared\ink\fsdefinitions\keypad
97   C:\Program Files\Tanium\Tanium Server\plugins\console\InstallPlugin
98   C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\Log\20140910_112831\resources
99   C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\Bin
100  C:\Program Files\Microsoft SQL Server\110\DTS\ForEachEnumerators
101  C:\Program Files\Tanium\Tanium Server\Apache24\conf
102  C:\Program Files\MSBuild\Microsoft
103  C:\Program Files\Microsoft SQL Server\110\DTS\UpgradeMappings
104  C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-11-17-11-17-33\htdocs\php\Auth
105  C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-09-16-20-44-23\manual\style\css
106  C:\Program Files\Common Files\Microsoft Shared\ink
107  C:\Program Files\Common Files\Microsoft Shared\ink\sv-SE
108  C:\Program Files\VMware\VMware Tools\messages
109  C:\Program Files\Microsoft SQL Server\110\DTS\ForEachEnumerators\Resources
110  C:\Program Files\Common Files\Microsoft Shared\ink\uk-UA
111  C:\Program Files\Microsoft SQL Server\110\DTS\Binn\Resources\1033
112  C:\Program Files\Tanium\Tanium Server\Apache24\manual\platform
113  C:\Program Files\Microsoft SQL Server\110\KeyFile
114  C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\Resources\3082
115  C:\Program Files\Tanium\Tanium Server\CertificateBackup2014-09-16-20-44-23
116  C:\Program Files\Microsoft SQL Server\100\Setup Bootstrap\Release\x64\1033
```

```
117  C:\Program Files\Microsoft.NET\ADOMD.NET
118  C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\1028_CHT_LP\x64\1028\help
119  C:\Program Files\Common Files\Microsoft Shared\ink\sl-SI
120  C:\Program Files\Tanium\Tanium Server\plugins\console\UserGroups
121  C:\Program Files\Common Files\Microsoft Shared\ink\hu-HU
122  C:\Program Files\Common Files\System\en-US
123  C:\Program Files\Common Files\Microsoft Shared\ink\zh-TW
124  C:\Program Files\Common Files\Microsoft Shared\ink\zh-CN
125  C:\Program Files\Common Files\VMware\Drivers\video_wddm
126  C:\Program Files\Common Files\Microsoft Shared\ink\fi-FI
127  C:\Program Files\Common Files\Microsoft Shared
128  C:\Program Files\Microsoft SQL Server\110\SDK\Include
129  C:\Program Files\Common Files\Microsoft Shared\ink\da-DK
130  C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-09-16-20-44-23\icons\small
131  C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-11-17-11-17-33
132  C:\Program Files\Microsoft Visual Studio 10.0\Common7\IDE\PrivateAssemblies
133  C:\Program Files\Microsoft SQL Server\80
134  C:\Program Files\Microsoft SQL Server\90
135  C:\Program Files\Windows Mail
136  C:\Program Files\Common Files\VMware\Drivers\vmci\sockets\bin\win64
137  C:\Program Files\Common Files\VMware\Drivers\vmci\sockets\bin\win32
138  C:\Program Files\Common Files\Microsoft Shared\ink\fsdefinitions\oskmenu
139  C:\Program Files\Microsoft SQL Server\110\DTS\LogProviders
140  C:\Program Files\Microsoft SQL Server\100\Setup Bootstrap\Release\Resources\1033
141  C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\1049_RUS_LP\x64\1049
142  C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\Log\20140910_112604\Datastore_GlobalRules
143  C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-09-16-20-44-23\manual\images
144  C:\Program Files\Microsoft SQL Server\110\SDK
145  C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\1036_FRA_LP\x64
146  C:\Program Files\Windows NT\Accessories
147  C:\Program Files\Tanium\Tanium Server\content_public_keys
148  C:\Program Files\Windows NT\TableTextService\en-US
149  C:\Program Files\Tanium\Tanium Server\plugins\console\Manifest
150  C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-09-16-20-44-23\bin
151  C:\Program Files\Tanium\Tanium Server\Apache24\logs
152  C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\1033_ENU_LP
153  C:\Program Files\Tanium\Tanium Server\plugins\content
154  C:\Program Files\Reference Assemblies\Microsoft\Framework
155  C:\Program Files\Microsoft SQL Server\110\DTS\Connections\en
156  C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-11-17-11-17-33\icons\small
157  C:\Program Files\Common Files\VMware\Drivers\Virtual Printer\TPOG3\amd64
158  C:\Program Files\Microsoft Visual Studio 10.0\Common7\IDE\PrivateAssemblies\1033
159  C:\Program Files\Common Files\Microsoft Shared\ink\ko-KR
160  C:\Program Files\Tanium\Tanium Server\Apache24\manual\ssl
161  C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\1042_KOR_LP\x64
162  C:\Program Files\Tanium\Tanium Server\Apache24\manual\style\css
163  C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-11-17-11-17-33\manual\misc
164  C:\Program Files\Microsoft SQL Server\110\SDK\Lib\x64
165  C:\Program Files\Microsoft SQL Server\110\SDK\Lib\x86
166  C:\Program Files\Tanium\Tanium Server\plugins\console\lib
167  C:\Program Files\Common Files\Microsoft Shared\ink\it-IT
168  C:\Program Files\Microsoft.NET
169  C:\Program Files\Microsoft SQL Server\110\DTS\DataDumps
170  C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-11-17-11-17-33\conf
171  C:\Program Files\Internet Explorer\images
172  C:\Program Files\Windows NT
173  C:\Program Files\Microsoft SQL Server\110\COM\Resources\1033
174  C:\Program Files\Microsoft SQL Server\MSSQL11.SQLEXPRESS\MSSQL\JOBS
```

```
175  C:\Program Files\Tanium\Tanium Server\Apache24\htdocs
176  C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\1041_JPN_LP
177  C:\Program Files\Tanium\Tanium Server\php55\extras
178  C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\1031_DEU_LP\x64\1031\help
179  C:\Program Files\Microsoft SQL Server\100\Setup Bootstrap
180  C:\Program Files\Common Files\SpeechEngines\Microsoft\TTS20
181  C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-09-16-20-44-23
182  C:\Program Files\Common Files\Microsoft Shared\Triedit
183  C:\Program Files\Microsoft.NET\ADOMD.NET\110
184  C:\Program Files\Microsoft SQL Server\110\Shared
185  C:\Program Files\Microsoft SQL Server\110\Tools\Binn
186  C:\Program Files\Microsoft Help Viewer
187  C:\Program Files\Microsoft SQL Server\100\Setup Bootstrap\Release\x64\Patch
188  C:\Program Files\Tanium\Tanium Server\Apache24\bin\iconv
189  C:\Program Files\Common Files\VMware\Drivers\memctl
190  C:\Program Files\Tanium\Tanium Server\plugins\console
191  C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-09-16-20-44-23\conf\original
192  C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-09-16-20-44-23\htdocs\php
193  C:\Program Files\Microsoft SQL Server\90\License Terms
194  C:\Program Files\Microsoft SQL Server\100\Setup Bootstrap\Release\Resources
195  C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\x64\pt
196  C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\x64\ru
197  C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-11-17-11-17-33\lib
198  C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\x64\it
199  C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\x64\ko
200  C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\x64\ja
201  C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\x64\es
202  C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\x64\de
203  C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\x64\fr
204  C:\Program Files\Common Files\Microsoft Shared\ink\he-IL
205  C:\Program Files\Common Files\Microsoft Shared\ink\ro-RO
206  C:\Program Files\Common Files\VMware\Drivers\pvscsi
207  C:\Program Files\Microsoft Visual Studio 10.0\Common7\Packages
208  C:\Program Files\Microsoft Visual Studio 10.0\Common7
209  C:\Program Files\Common Files\Services
210  C:\Program Files\Common Files\Microsoft Shared\ink\fsdefinitions\oskpred
211  C:\Program Files\Microsoft SQL Server\110\SDK\Lib
212  C:\Program Files\Microsoft SQL Server\110\DTS\PipelineComponents\Resources\1033
213  C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-09-16-20-44-23\manual\misc
214  C:\Program Files\Tanium\Tanium Server\Apache24\manual\misc
215  C:\Program Files\Common Files\SpeechEngines\Microsoft\TTS20\en-US
216  C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-11-17-11-17-33\modules
217  C:\Program Files\Microsoft SQL Server\110\DTS\Connections
218  C:\Program Files\Tanium\Tanium Server\Downloads\URLCache
219  C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\1046_PTB_LP
220  C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-09-16-20-44-23\manual\rewrite
221  C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-11-17-11-17-33\manual\images
222  C:\Program Files\Common Files\VMware\Drivers\vmci\device
223  C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-11-17-11-17-33\manual\rewrite
224  C:\Program Files\Common Files
225  C:\Program Files\Tanium\Tanium Server\Apache24\manual
226  C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-09-16-20-44-23\manual\platform
227  C:\Program Files\Tanium\Tanium Server\Apache24\conf\extra
228  C:\Program Files\Common Files\VMware\Drivers\vmci
229  C:\Program Files\Common Files\System\msadc\en-US
230  C:\Program Files\Common Files\System
231  C:\Program Files\Windows NT\Accessories\en-US
232  C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\1036_FRA_LP\x64\1036
```

```
233  C:\Program Files\Microsoft SQL Server\MSSQL11.SQLEXPRESS\MSSQL\Binn\Resources
234  C:\Program Files\Tanium\Tanium Server\plugins\console\RegistrySetting
235  C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\1046_PTB_LP\x64\1046
236  C:\Program Files\Tanium\Tanium Server\Apache24\manual\rewrite
237  C:\Program Files\VMware\VMware Tools
238  C:\Program Files\Common Files\Microsoft Shared\ink\fsdefinitions\numbers
239  C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\1049_RUS_LP\x64
240  C:\Program Files\Microsoft SQL Server\MSSQL11.SQLEXPRESS\MSSQL\Log
241  C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-09-16-20-44-23\lib
242  C:\Program Files\Windows NT\TableTextService
243  C:\Program Files\Microsoft SQL Server\MSSQL11.SQLEXPRESS\MSSQL\Binn\Resources\1055
244  C:\Program Files\Microsoft SQL Server\MSSQL11.SQLEXPRESS\MSSQL\Binn\Resources\1053
245  C:\Program Files\Microsoft SQL Server\MSSQL11.SQLEXPRESS\MSSQL\Binn\Resources\1049
246  C:\Program Files\Microsoft SQL Server\MSSQL11.SQLEXPRESS\MSSQL\Binn\Resources\1041
247  C:\Program Files\Microsoft SQL Server\MSSQL11.SQLEXPRESS\MSSQL\Binn\Resources\1040
248  C:\Program Files\Microsoft SQL Server\MSSQL11.SQLEXPRESS\MSSQL\Binn\Resources\1043
249  C:\Program Files\Microsoft SQL Server\MSSQL11.SQLEXPRESS\MSSQL\Binn\Resources\1042
250  C:\Program Files\Microsoft SQL Server\MSSQL11.SQLEXPRESS\MSSQL\Binn\Resources\1045
251  C:\Program Files\Microsoft SQL Server\MSSQL11.SQLEXPRESS\MSSQL\Binn\Resources\1044
252  C:\Program Files\Microsoft SQL Server\MSSQL11.SQLEXPRESS\MSSQL\Binn\Resources\1046
253  C:\Program Files\Microsoft SQL Server\MSSQL11.SQLEXPRESS\MSSQL\Binn\Resources\1038
254  C:\Program Files\Microsoft SQL Server\MSSQL11.SQLEXPRESS\MSSQL\Binn\Resources\1035
255  C:\Program Files\Microsoft SQL Server\MSSQL11.SQLEXPRESS\MSSQL\Binn\Resources\1036
256  C:\Program Files\Microsoft SQL Server\MSSQL11.SQLEXPRESS\MSSQL\Binn\Resources\1030
257  C:\Program Files\Microsoft SQL Server\MSSQL11.SQLEXPRESS\MSSQL\Binn\Resources\1031
258  C:\Program Files\Microsoft SQL Server\MSSQL11.SQLEXPRESS\MSSQL\Binn\Resources\1032
259  C:\Program Files\Microsoft SQL Server\MSSQL11.SQLEXPRESS\MSSQL\Binn\Resources\1033
260  C:\Program Files\Microsoft SQL Server\MSSQL11.SQLEXPRESS\MSSQL\Binn\Resources\1029
261  C:\Program Files\Microsoft SQL Server\MSSQL11.SQLEXPRESS\MSSQL\Binn\Resources\1028
262  C:\Program Files\Tanium\Tanium Server\Apache24\htdocs\console
263  C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\1042_KOR_LP\x64\1042
264  C:\Program Files\Tanium\Tanium Server\Apache24\error
265  C:\Program Files\Common Files\Microsoft Shared\ink\nb-NO
266  C:\Program Files\Tanium\Tanium Server\Apache24\manual\mod
267  C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\1041_JPN_LP\x64
268  C:\Program Files\Common Files\Microsoft Shared\ink\lv-LV
269  C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-09-16-20-44-23\manual
270  C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\1033_ENU_LP\x64\1033
271  C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-09-16-20-44-23\conf\original\extra
272  C:\Program Files\Common Files\Microsoft Shared\ink\fsdefinitions\auxpad
273  C:\Program Files\Common Files\Microsoft Shared\TextConv
274  C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-09-16-20-44-23\manual\developer
275  C:\Program Files\Common Files\Microsoft Shared\MSInfo\en-US
276  C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\3082_ESN_LP\x64\3082
277  C:\Program Files\Common Files\Microsoft Shared\ink\nl-NL
278  C:\Program Files\Tanium
279  C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-11-17-11-17-33\manual\howto
280  C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-11-17-11-17-33\include
281  C:\Program Files\Reference Assemblies\Microsoft\Framework\v3.5\RedistList
282  C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\Log\20140910_112532\Datastore_LandingPage
283  C:\Program Files\Microsoft SQL Server\100\KeyFile\1033
284  C:\Program Files\Microsoft SQL Server\110\Tools\Binn\Resources\1033
285  C:\Program Files\Tanium\Tanium Server\Downloads\Cache
286  C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-11-17-11-17-33\manual\style\latex
287  C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\3082_ESN_LP
288  C:\Program Files\Tanium\Tanium Server\php55\dev
289  C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-11-17-11-17-33\bin\iconv
290  C:\Program Files\VMware\VMware Tools\messages\zh_CN
```

```
291  C:\Program Files\Tanium\Tanium Server\Apache24\manual\vhosts
292  C:\Program Files\Common Files\VMware\Drivers\vmci\sockets
293  C:\Program Files\Microsoft SQL Server\90\Shared\Resources\1033
294  C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-09-16-20-44-23\conf
295  C:\Program Files\Common Files\VMware
296  C:\Program Files\Common Files\System\msadc
297  C:\Program Files\Microsoft SQL Server\110\Tools
298  C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-11-17-11-17-33\htdocs\php
299  C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\1040_ITA_LP
300  C:\Program Files\Common Files\Microsoft Shared\ink\fr-FR
301  C:\Program Files\Common Files\VMware\Drivers\vss
302  C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-11-17-11-17-33\bin
303  C:\Program Files\Common Files\Microsoft Shared\ink\tr-TR
304  C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-11-17-11-17-33\manual\programs
305  C:\Program Files\Common Files\Microsoft Shared\VC
306  C:\Program Files\Tanium\Tanium Server\php55\ext
307  C:\Program Files\Common Files\Microsoft Shared\WF
308  C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-09-16-20-44-23\manual\ssl
309  C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-11-17-11-17-33\htdocs
310  C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-11-17-11-17-33\htdocs\console
311  C:\Program Files\Microsoft SQL Server\MSSQL11.SQLEXPRESS\MSSQL\Binn\Templates
312  C:\Program Files\Tanium\Tanium Server\plugins
313  C:\Program Files\Tanium\Tanium Server\Apache24\icons\small
314  C:\Program Files\Microsoft SQL Server\110\Shared\en
315  C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-09-16-20-44-23\htdocs\php\Auth
316  C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-09-16-20-44-23\error\include
317  C:\Program Files\Microsoft SQL Server\100\Setup Bootstrap\Release\x64\Help
318  C:\Program Files\Microsoft Help Viewer\v1.0\Microsoft Help Viewer 1.1
319  C:\Program Files\Microsoft SQL Server\110\Tools\Binn\ManagementStudio
320  C:\Program Files\Common Files\Microsoft Shared\ink\fsdefinitions\symbols
321  C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\1036_FRA_LP\x64\1036\help
322  C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-11-17-11-17-33\manual
323  C:\Program Files\Common Files\System\Ole DB\en-US
324  C:\Program Files\Microsoft SQL Server\110\Tools\Binn\ManagementStudio\Extensions
325  C:\Program Files\Microsoft SQL Server\80\Tools\Binn
326  C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\2052_CHS_LP
327  C:\Program Files\Common Files\Microsoft Shared\ink\lt-LT
328  C:\Program Files\Microsoft SQL Server\MSSQL11.SQLEXPRESS\MSSQL\Binn
329  C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\x64
330  C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-09-16-20-44-23\htdocs
331  C:\Program Files\Microsoft SQL Server\100\KeyFile
332  C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-11-17-11-17-33\manual\style
333  C:\Program Files\Microsoft SQL Server\MSSQL11.SQLEXPRESS\MSSQL\Install
334  C:\Program Files\Common Files\Microsoft Shared\ink\et-EE
335  C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\1028_CHT_LP
336  C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\1040_ITA_LP\x64\1040
337  C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\1028_CHT_LP\x64
338  C:\Program Files\Common Files\VMware\Drivers\Virtual Printer\TPOGPS
339  C:\Program Files\Common Files\Microsoft Shared\ink\cs-CZ
340  C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\2052_CHS_LP\x64\2052\help
341  C:\Program Files\VMware
342  C:\Program Files\Microsoft SQL Server\110\Shared\VS2008
343  C:\Program Files\Microsoft Visual Studio 10.0\Common7\Packages\Debugger
344  C:\Program Files\Common Files\VMware\Drivers\mouse
345  C:\Program Files\Common Files\VMware\Drivers\vmci\sockets\bin
346  C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-09-16-20-44-23\bin\iconv
347  C:\Program Files\Common Files\Microsoft Shared\ink\en-US
348  C:\Program Files\Microsoft SQL Server\MSSQL11.SQLEXPRESS\MSSQL\Backup
```

```
349   C:\Program Files\Tanium\Tanium Server\VB
350   C:\Program Files\Microsoft SQL Server\110\DTS\ForEachEnumerators\Resources\1033
351   C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-11-17-11-17-33\manual\vhosts
352   C:\Program Files\Common Files\Microsoft Shared\ink\bg-BG
353   C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-11-17-11-17-33\manual\ssl
354   C:\Program Files\Tanium\Tanium Server\Apache24\bin
355   C:\Program Files\Common Files\System\Ole DB
356   C:\Program Files\Tanium\Tanium Server\Apache24\manual\faq
357   C:\Program Files\Microsoft SQL Server\MSSQL11.SQLEXPRESS
358   C:\Program Files\Common Files\VMware\Drivers\audio
359   C:\Program Files\Microsoft SQL Server\110\DTS\Binn\Resources
360   C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\1041_JPN_LP\x64\1041
361   C:\Program Files\Reference Assemblies\Microsoft\Framework\v3.0\RedistList
362   C:\Program Files\Tanium\Tanium Server\Downloads
363   C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\1049_RUS_LP\x64\1049\help
364   C:\Program Files\Microsoft Visual Studio 10.0\Common7\Packages\Debugger\x86
365   C:\Program Files\Microsoft Visual Studio 10.0\Common7\Packages\Debugger\X64
366   C:\Program Files\MSBuild\Microsoft\Windows Workflow Foundation
367   C:\Program Files\Microsoft SQL Server\100\Shared
368   C:\Program Files\Internet Explorer\SIGNUP
369   C:\Program Files\Common Files\Microsoft Shared\ink\es-ES
370   C:\Program Files\Tanium\Tanium Server\Support
371   C:\Program Files\Microsoft SQL Server\110\DTS\Binn
372   C:\Program Files\Common Files\Microsoft Shared\MSInfo
373   C:\Program Files\Reference Assemblies
374   C:\Program Files\Microsoft SQL Server\110\Shared\RsFxInstall
375   C:\Program Files\Microsoft Help Viewer\v1.0\CatalogInfo
376   C:\Program Files\Microsoft SQL Server\110\DTS\MappingFiles
377   C:\Program Files\Microsoft SQL Server\110\DTS\PipelineComponents\Resources
378   C:\Program Files\Common Files\Microsoft Shared\WF\amd64
379   C:\Program Files\Tanium\Tanium Server\plugins\console\SigVerifier
380   C:\Program Files\Tanium\Tanium Server\plugins\console\DashboardGroups
381   C:\Program Files\Microsoft SQL Server\80\Tools
382   C:\Program Files\Microsoft SQL Server\MSSQL11.SQLEXPRESS\MSSQL\Template Data
383   C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-09-16-20-44-23\icons
384   C:\Program Files\Common Files\Microsoft Shared\ink\de-DE
385   C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\1031_DEU_LP\x64\1031
386   C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\1042_KOR_LP
387   C:\Program Files\Microsoft Visual Studio 10.0\Common7\IDE
388   C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\1033_ENU_LP\x64\1033\help
389   C:\Program Files\Common Files\Microsoft Shared\ink\fsdefinitions\main
390   C:\Program Files\Microsoft Help Viewer\v1.0\StopWords
391   C:\Program Files\Microsoft SQL Server\110\Tools\Binn\ManagementStudio\Extensions\Application
392   C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap
393   C:\Program Files\Microsoft SQL Server\MSSQL11.SQLEXPRESS\MSSQL\repldata
394   C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\x64\zh-CHT
395   C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\x64\zh-CHS
396   C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-09-16-20-44-23\manual\vhosts
397   C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\1042_KOR_LP\x64\1042\help
398   C:\Program Files\Microsoft SQL Server\110\DTS\Tasks\en
399   C:\Program Files\Common Files\SpeechEngines
400   C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-09-16-20-44-23\logs
401   C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-09-16-20-44-23\manual\mod
402   C:\Program Files\VMware\VMware Tools\Drivers\hgfs
403   C:\Program Files\Tanium\Tanium Server\Apache24\conf\original
404   C:\Program Files\Uninstall Information
405   C:\Program Files\Reference Assemblies\Microsoft\Framework\v3.5
406   C:\Program Files\Reference Assemblies\Microsoft\Framework\v3.0
```

```
407  C:\Program Files\Microsoft Visual Studio 10.0\Common7\IDE\Xml
408  C:\Program Files\Microsoft SQL Server\110\DTS\PipelineComponents
409  C:\Program Files\Microsoft SQL Server\90\Shared\Resources
410  C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\1046_PTB_LP\x64\1046\help
411  C:\Program Files\Tanium\Tanium Server\Apache24\include
412  C:\Program Files\Tanium\Tanium Server\plugins\console\GroupFiliters
413  C:\Program Files\VMware\VMware Tools\Drivers
414  C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\1041_JPN_LP\x64\1041\help
415  C:\Program Files\Tanium\Tanium Server\Downloads\tmp
416  C:\Program Files\Microsoft SQL Server\100\Setup Bootstrap\Release
417  C:\Program Files\Tanium\Tanium Server\Apache24\conf\original\extra
418  C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-11-17-11-17-33\manual\style\scripts
419  C:\Program Files\Common Files\Microsoft Shared\ink\sr-Latn-CS
420  C:\Program Files\Common Files\Microsoft Shared\ink\fsdefinitions\osknumpad
421  C:\Program Files\Microsoft SQL Server\110\License Terms
422  C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012
423  C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\1031_DEU_LP\x64
424  C:\Program Files\Common Files\VMware\Drivers\vmxnet
425  C:\Program Files\Tanium\Tanium Server\Strings
426  C:\Program Files\MSBuild
427  C:\Program Files\Microsoft SQL Server\110\COM\Resources
428  C:\Program Files\Common Files\VMware\Drivers\Virtual Printer\TPOGPS\amd64
429  C:\Program Files\Microsoft SQL Server\80\COM
430  C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-09-16-20-44-23\htdocs\console\history
431  C:\Program Files\Tanium\Tanium Server\Apache24\manual\howto
432  C:\Program Files\Microsoft SQL Server\110\Shared\Resources\1033
433  C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-09-16-20-44-23\conf\extra
434  C:\Program Files\Common Files\Microsoft Shared\MSEnv
435  C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\2052_CHS_LP\x64\2052
436  C:\Program Files\Common Files\VMware\Drivers\Virtual Printer
437  C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-11-17-11-17-33\htdocs\console\history
438  C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\1028_CHT_LP\x64\1028
439  C:\Program Files\Microsoft SQL Server\110\Shared\VS2008\1033
440  C:\Program Files\Common Files\Microsoft Shared\ink\pt-BR
441  C:\Program Files\Common Files\Microsoft Shared\ink\pt-PT
442  C:\Program Files\Common Files\System\ado
443  C:\Program Files\Microsoft SQL Server\110\KeyFile\1033
444  C:\Program Files\Tanium\Tanium Server\SOAPUpload
445  C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\Resources\2052
446  C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\Log\20140910_112604\resources
447  C:\Program Files\Microsoft SQL Server\MSSQL11.SQLEXPRESS\MSSQL\DATA
448  C:\Program Files\Tanium\Tanium Server\php55\extras\ssl
449  C:\Program Files\Common Files\Microsoft Shared\ink\el-GR
450  C:\Program Files\VMware\VMware Tools\win32
451  C:\Program Files\VMware\VMware Tools\win64
452  C:\Program Files\Microsoft SQL Server\110\Shared\Resources
453  C:\Program Files\Internet Explorer
454  C:\Program Files\Tanium\Tanium Server\Apache24\icons
455  C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\1033_ENU_LP\x64
456  C:\Program Files\Microsoft SQL Server\MSSQL11.SQLEXPRESS\MSSQL
457  C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\1031_DEU_LP
458  C:\Program Files\Tanium\Tanium Server\Apache24\manual\programs
459  C:\Program Files\Common Files\VMware\Drivers\vmxnet3
460  C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\1049_RUS_LP
461  C:\Program Files\VMware\VMware Tools\Drivers\hgfs\wow64
462  C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\Log
463  C:\Program Files\Microsoft SQL Server\90\License Terms\1033
464  C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-11-17-11-17-33\logs
```

```
465  C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-11-17-11-17-33\manual\faq
466  C:\Program Files\Tanium\Tanium Server\Suppot_patch1
467  C:\Program Files\Common Files\Microsoft Shared\ink\fsdefinitions\web
468  C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-11-17-11-17-33\cgi-bin
469  C:\Program Files\Tanium\Tanium Server\Apache24\manual\developer
470  C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\Resources\1036
471  C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\Resources\1033
472  C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\Resources\1031
473  C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\Resources\1028
474  C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\Resources\1049
475  C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\Resources\1046
476  C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\Resources\1042
477  C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\Resources\1041
478  C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\Resources\1040
479  C:\Program Files\Microsoft SQL Server\100\Setup Bootstrap\Release\x64
480  C:\Program Files\Tanium\Tanium Server\Apache24\manual\style\latex
481  C:\Program Files\Tanium\Tanium Server
482  C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-09-16-20-44-23\htdocs\console
483  C:\Program Files\Tanium\Tanium Server\http
484  C:\Program Files\Common Files\Microsoft Shared\ink\ja-JP
485  C:\Program Files\Microsoft SQL Server\110\DTS\Packages
486  C:\Program Files\Common Files\Microsoft Shared\ink\sk-SK
487  C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-11-17-11-17-33\manual\style\css
488  C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-11-17-11-17-33\conf\original
489  C:\Program Files\Tanium\Tanium Server\Apache24\htdocs\php
490  C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-09-16-20-44-23\manual\howto
491  C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-09-16-20-44-23\manual\style\latex
492  C:\Program Files\Common Files\Microsoft Shared\ink\hr-HR
493  C:\Program Files\Common Files\VMware\Drivers
494  C:\Program Files\Tanium\Tanium Server\Apache24\lib
495  C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\Log\20140910_112532
496  C:\Program Files\Microsoft Help Viewer\v1.0
497  C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-11-17-11-17-33\conf\extra
498  C:\Program Files\Tanium\Tanium Server\Apache24
499  C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-09-16-20-44-23\manual\style\scripts
500  C:\Program Files\Common Files\Microsoft Shared\VGX
501  C:\Program Files\Microsoft SQL Server\110\DTS\ProviderDescriptors
502  C:\Program Files\Microsoft SQL Server\110\COM\en
503  C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-09-16-20-44-23\manual\faq
504  C:\Program Files\Tanium\Tanium Server\Apache24\manual\style\scripts
505  C:\Program Files\Common Files\Microsoft Shared\Triedit\en-US
506  C:\Program Files\Microsoft SQL Server\100\Setup Bootstrap\Release\x64\Help\1033
507  C:\Program Files\Microsoft SQL Server\110\COM
508  C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\1046_PTB_LP\x64
509  C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\Log\20140910_112831\Datastore_GlobalRules
510  C:\Program Files\Common Files\Microsoft Shared\TextConv\en-US
511  C:\Program Files\VMware\VMware Tools\plugins
512  C:\Program Files\Microsoft SQL Server\110\DTS
513  C:\Program Files\Tanium\Tanium Server\plugins\console\SavedQuestions
514  C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-11-17-11-17-33\error\include
515  C:\Program Files\Common Files\System\ado\en-US
516  C:\Program Files\Tanium\Tanium Server\Apache24\cgi-bin
517  C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\Log\20140910_112604
518  C:\Program Files\VMware\VMware Tools\plugins\vmusr
519  C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\Log\20140910_112831\Datastore
520  C:\Program Files\Microsoft SQL Server\MSSQL11.SQLEXPRESS\MSSQL\Binn\DllTmp64
521  C:\Program Files\Microsoft SQL Server\MSSQL11.SQLEXPRESS\MSSQL\Binn\DllTmp32
522  C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-09-16-20-44-23\manual\programs
```

```
523   C:\Program Files\Microsoft SQL Server\110\Tools\Binn\Resources
524   C:\Program Files\Tanium\Tanium Server\php55
525   C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-09-16-20-44-23\manual\style
526   C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\1040_ITA_LP\x64
527   C:\Program Files\Reference Assemblies\Microsoft
528   C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-09-16-20-44-23\include
529   C:\Program Files\Tanium\Tanium Server\Apache24\manual\images
530   C:\Program Files\Common Files\Microsoft Shared\ink\fsdefinitions
531   C:\Program Files\Microsoft SQL Server\110\SDK\Assemblies\en
532   C:\Program Files\Tanium\Tanium Server\Logs
533   C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-11-17-11-17-33\manual\mod
534   C:\Program Files\Common Files\VMware\Drivers\Virtual Printer\TPOG3
535   C:\Program Files\Microsoft SQL Server\110
536   C:\Program Files\Microsoft SQL Server\100
537   C:\Program Files\Tanium\Tanium Server\Apache24\modules
538   C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-11-17-11-17-33\manual\platform
539   C:\Program Files\Microsoft Visual Studio 10.0
540   C:\Program Files\Microsoft SQL Server\MSSQL11.SQLEXPRESS\MSSQL\Binn\Resources\3082
541   C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\Log\20140910_112831
542   C:\Program Files\VMware\VMware Tools\plugins\common
543   C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\Log\20140910_112804
544   C:\Program Files\Common Files\Microsoft Shared\ink\th-TH
545   C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-11-17-11-17-33\icons
546   C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\Log\20140910_112831\Datastore_ComponentUpd
547   C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-11-17-11-17-33\error
548   C:\Program Files\Microsoft SQL Server
549   C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-09-16-20-44-23\error
550   C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\3082_ESN_LP\x64
551   C:\Program Files\Common Files\Microsoft Shared\SQL Debugging
552   C:\Program Files\Tanium\Tanium Server\Apache24\error\include
553   C:\Program Files\Microsoft SQL Server\110\SDK\Assemblies
554   C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\x64\Patch
555   C:\Program Files\Microsoft Help Viewer\v1.0\en
556   C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\3082_ESN_LP\x64\3082\help
557   C:\Program Files\Microsoft SQL Server\90\Shared
558   C:\Program Files\Microsoft SQL Server\MSSQL11.SQLEXPRESS\MSSQL\Binn\Resources\2052
559   C:\Program Files\Microsoft SQL Server\MSSQL11.SQLEXPRESS\MSSQL\Binn\Resources\2070
560   C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-11-17-11-17-33\conf\original\extra
561   C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-11-17-11-17-33\manual\developer
562   C:\Program Files\Common Files\Microsoft Shared\ink\pl-PL
563   C:\Program Files\Common Files\SpeechEngines\Microsoft\TTS20\en-US\enu-dsk
564   C:\Program Files\Common Files\Microsoft Shared\Stationery
565   C:\Program Files\Common Files\Microsoft Shared\VS7Debug\1033
566   C:\Program Files\Microsoft SQL Server\100\Setup Bootstrap\Bin
567   C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\Resources
568   C:\Program Files\Microsoft SQL Server\110\Shared\ErrorDumps
569   C:\Program Files\Internet Explorer\en-US
570   C:\Program Files\VMware\VMware Tools\messages\it
571   C:\Program Files\VMware\VMware Tools\messages\ja
572   C:\Program Files\VMware\VMware Tools\messages\ko
573   C:\Program Files\VMware\VMware Tools\messages\de
574   C:\Program Files\VMware\VMware Tools\messages\es
575   C:\Program Files\VMware\VMware Tools\messages\fr
576   C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\1036_FRA_LP
577   C:\Program Files\Microsoft SQL Server\110\DTS\Tasks","0.0.0.0
578   0.0.0.0
579   0.0.0.0
580   172.16.31.2
```

```
581  0.0.0.0","172.16.31.128
582  fe80::5968:4e9d:b4fc:88ef","-
583  -
584  -
585  -
586  -","255.255.255.255
587  255.255.255.0
588  255.255.255.255
589  0.0.0.0
590  255.0.0.0","266
591  266
592  306
593  266
594  306"
```

Export resultset csv sort true

Export a ResultSet from asking a question as CSV with true for header_sort

Example Python Code

```python
1   # Path to lib directory which contains pytan package
2   PYTAN_LIB_PATH = '../lib'
3
4   # connection info for Tanium Server
5   USERNAME = "Tanium User"
6   PASSWORD = "T@n!um"
7   HOST = "172.16.31.128"
8   PORT = "444"
9
10  # Logging conrols
11  LOGLEVEL = 2
12  DEBUGFORMAT = False
13
14  import sys, tempfile
15  sys.path.append(PYTAN_LIB_PATH)
16
17  import pytan
18  handler = pytan.Handler(
19      username=USERNAME,
20      password=PASSWORD,
21      host=HOST,
22      port=PORT,
23      loglevel=LOGLEVEL,
24      debugformat=DEBUGFORMAT,
25  )
26
27  print handler
28
29  # setup the export_obj kwargs for later
30  export_kwargs = {}
31  export_kwargs["export_format"] = u'csv'
32  export_kwargs["header_sort"] = True
33
34  # ask the question that will provide the resultset that we want to use
```

```
35   ask_kwargs = {
36       'qtype': 'manual_human',
37       'sensors': [
38           "Computer Name", "IP Route Details", "IP Address",
39           'Folder Name Search with RegEx Match{dirname=Program Files,regex=.*Shared.*}',
40       ],
41   }
42   response = handler.ask(**ask_kwargs)
43
44   # export the object to a string
45   # (we could just as easily export to a file using export_to_report_file)
46   export_kwargs['obj'] = response['question_results']
47   export_str = handler.export_obj(**export_kwargs)
48
49
50   print ""
51   print "print the export_str returned from export_obj():"
52   print export_str
```

Output from Python Code

```
1    Handler for Session to 172.16.31.128:444, Authenticated: True, Version: 6.2.314.3258
2    2014-12-07 01:18:25,136 INFO     question_progress: Results 0% (Get Computer Name and IP Route Detai
3    2014-12-07 01:18:30,161 INFO     question_progress: Results 0% (Get Computer Name and IP Route Detai
4    2014-12-07 01:18:35,187 INFO     question_progress: Results 0% (Get Computer Name and IP Route Detai
5    2014-12-07 01:18:40,212 INFO     question_progress: Results 0% (Get Computer Name and IP Route Detai
6    2014-12-07 01:18:45,239 INFO     question_progress: Results 0% (Get Computer Name and IP Route Detai
7    2014-12-07 01:18:50,263 INFO     question_progress: Results 0% (Get Computer Name and IP Route Detai
8    2014-12-07 01:18:55,288 INFO     question_progress: Results 0% (Get Computer Name and IP Route Detai
9    2014-12-07 01:19:00,310 INFO     question_progress: Results 0% (Get Computer Name and IP Route Detai
10   2014-12-07 01:19:05,342 INFO     question_progress: Results 0% (Get Computer Name and IP Route Detai
11   2014-12-07 01:19:10,366 INFO     question_progress: Results 0% (Get Computer Name and IP Route Detai
12   2014-12-07 01:19:15,393 INFO     question_progress: Results 0% (Get Computer Name and IP Route Detai
13   2014-12-07 01:19:20,421 INFO     question_progress: Results 0% (Get Computer Name and IP Route Detai
14   2014-12-07 01:19:25,450 INFO     question_progress: Results 0% (Get Computer Name and IP Route Detai
15   2014-12-07 01:19:30,478 INFO     question_progress: Results 0% (Get Computer Name and IP Route Detai
16   2014-12-07 01:19:35,502 INFO     question_progress: Results 0% (Get Computer Name and IP Route Detai
17   2014-12-07 01:19:40,529 INFO     question_progress: Results 0% (Get Computer Name and IP Route Detai
18   2014-12-07 01:19:45,555 INFO     question_progress: Results 0% (Get Computer Name and IP Route Detai
19   2014-12-07 01:19:50,581 INFO     question_progress: Results 100% (Get Computer Name and IP Route Det
20
21   print the export_str returned from export_obj():
22   Computer Name,Destination,Flags,"Folder Name Search with RegEx Match[No, Program Files, No, ]",Gatew
23   Casus-Belli.local,"default
24   192.168.0
25   169.254
26   172.16.31/24
27   192.168.0.1/32
28   172.16.152/24
29   192.168.0.3/32","UGSc
30   UCS
31   UCS
32   UC
33   UCS
34   UC
35   UCS",Windows Only,"192.168.0.1
36   link#4
```

```
37  link#4
38  link#13
39  link#4
40  link#12
41  link#4","fe80::e896:c1c9:d927:bbe0
42  2604:2000:69e6:1a00:82e6:50ff:fe1d:1dca
43  172.16.31.1
44  fe80::82e6:50ff:fe1d:1dca
45  172.16.152.1
46  192.168.0.3
47  fe80::2886:21ff:fe7f:3ef4
48  2604:2000:69e6:1a00:95ad:5fe5:cf9e:5403
49  fd1b:56a6:50eb:cd49:e896:c1c9:d927:bbe0","en0
50  en0
51  en0
52  vmnet8
53  en0
54  vmnet1
55  en0","None
56  None
57  None
58  None
59  None
60  None
61  None","None
62  None
63  None
64  None
65  None
66  None
67  None"
68  jtanium1.localdomain,"172.16.31.128
69  172.16.31.0
70  127.0.0.1
71  0.0.0.0
72  127.0.0.0","-
73  -
74  -
75  -
76  -","C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-09-16-20-44-23\cgi-bin
77  C:\Program Files\VMware\VMware Tools\plugins\vmsvc
78  C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\1040_ITA_LP\x64\1040\help
79  C:\Program Files\Common Files\Microsoft Shared\VS7Debug
80  C:\Program Files\Tanium\Tanium Server\Apache24\manual\style
81  C:\Program Files\Tanium\Tanium Server\Apache24\htdocs\console\history
82  C:\Program Files\Common Files\VMware\Drivers\vmci\sockets\include
83  C:\Program Files\Common Files\Microsoft Shared\ink\ar-SA
84  C:\Program Files\Tanium\Tanium Server\plugins\console\Dashboards
85  C:\Program Files\Tanium\Tanium Server\CertificateBackup2014-11-17-11-17-33
86  C:\Program Files\Common Files\SpeechEngines\Microsoft
87  C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-09-16-20-44-23\modules
88  C:\Program Files\Common Files\Microsoft Shared\ink\ru-RU
89  C:\Program Files\Microsoft SQL Server\110\DTS\ForEachEnumerators\en
90  C:\Program Files\Tanium\Tanium Server\Apache24\htdocs\php\Auth
91  C:\Program Files\MSBuild\Microsoft\Windows Workflow Foundation\v3.0
92  C:\Program Files\MSBuild\Microsoft\Windows Workflow Foundation\v3.5
93  C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\2052_CHS_LP\x64
94  C:\Program Files\Common Files\Microsoft Shared\ink\fsdefinitions\keypad
```

```
95    C:\Program Files\Tanium\Tanium Server\plugins\console\InstallPlugin
96    C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\Log\20140910_112831\resources
97    C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\Bin
98    C:\Program Files\Microsoft SQL Server\110\DTS\ForEachEnumerators
99    C:\Program Files\Tanium\Tanium Server\Apache24\conf
100   C:\Program Files\MSBuild\Microsoft
101   C:\Program Files\Microsoft SQL Server\110\DTS\UpgradeMappings
102   C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-11-17-11-17-33\htdocs\php\Auth
103   C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-09-16-20-44-23\manual\style\css
104   C:\Program Files\Common Files\Microsoft Shared\ink
105   C:\Program Files\Common Files\Microsoft Shared\ink\sv-SE
106   C:\Program Files\VMware\VMware Tools\messages
107   C:\Program Files\Microsoft SQL Server\110\DTS\ForEachEnumerators\Resources
108   C:\Program Files\Common Files\Microsoft Shared\ink\uk-UA
109   C:\Program Files\Microsoft SQL Server\110\DTS\Binn\Resources\1033
110   C:\Program Files\Tanium\Tanium Server\Apache24\manual\platform
111   C:\Program Files\Microsoft SQL Server\110\KeyFile
112   C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\Resources\3082
113   C:\Program Files\Tanium\Tanium Server\CertificateBackup2014-09-16-20-44-23
114   C:\Program Files\Microsoft SQL Server\100\Setup Bootstrap\Release\x64\1033
115   C:\Program Files\Microsoft.NET\ADOMD.NET
116   C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\1028_CHT_LP\x64\1028\help
117   C:\Program Files\Common Files\Microsoft Shared\ink\sl-SI
118   C:\Program Files\Tanium\Tanium Server\plugins\console\UserGroups
119   C:\Program Files\Common Files\Microsoft Shared\ink\hu-HU
120   C:\Program Files\Common Files\System\en-US
121   C:\Program Files\Common Files\Microsoft Shared\ink\zh-TW
122   C:\Program Files\Common Files\Microsoft Shared\ink\zh-CN
123   C:\Program Files\Common Files\VMware\Drivers\video_wddm
124   C:\Program Files\Common Files\Microsoft Shared\ink\fi-FI
125   C:\Program Files\Common Files\Microsoft Shared
126   C:\Program Files\Microsoft SQL Server\110\SDK\Include
127   C:\Program Files\Common Files\Microsoft Shared\ink\da-DK
128   C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-09-16-20-44-23\icons\small
129   C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-11-17-11-17-33
130   C:\Program Files\Microsoft Visual Studio 10.0\Common7\IDE\PrivateAssemblies
131   C:\Program Files\Microsoft SQL Server\80
132   C:\Program Files\Microsoft SQL Server\90
133   C:\Program Files\Windows Mail
134   C:\Program Files\Common Files\VMware\Drivers\vmci\sockets\bin\win64
135   C:\Program Files\Common Files\VMware\Drivers\vmci\sockets\bin\win32
136   C:\Program Files\Common Files\Microsoft Shared\ink\fsdefinitions\oskmenu
137   C:\Program Files\Microsoft SQL Server\110\DTS\LogProviders
138   C:\Program Files\Microsoft SQL Server\100\Setup Bootstrap\Release\Resources\1033
139   C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\1049_RUS_LP\x64\1049
140   C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\Log\20140910_112604\Datastore_GlobalRules
141   C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-09-16-20-44-23\manual\images
142   C:\Program Files\Microsoft SQL Server\110\SDK
143   C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\1036_FRA_LP\x64
144   C:\Program Files\Windows NT\Accessories
145   C:\Program Files\Tanium\Tanium Server\content_public_keys
146   C:\Program Files\Windows NT\TableTextService\en-US
147   C:\Program Files\Tanium\Tanium Server\plugins\console\Manifest
148   C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-09-16-20-44-23\bin
149   C:\Program Files\Tanium\Tanium Server\Apache24\logs
150   C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\1033_ENU_LP
151   C:\Program Files\Tanium\Tanium Server\plugins\content
152   C:\Program Files\Reference Assemblies\Microsoft\Framework
```

```
153   C:\Program Files\Microsoft SQL Server\110\DTS\Connections\en
154   C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-11-17-11-17-33\icons\small
155   C:\Program Files\Common Files\VMware\Drivers\Virtual Printer\TPOG3\amd64
156   C:\Program Files\Microsoft Visual Studio 10.0\Common7\IDE\PrivateAssemblies\1033
157   C:\Program Files\Common Files\Microsoft Shared\ink\ko-KR
158   C:\Program Files\Tanium\Tanium Server\Apache24\manual\ssl
159   C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\1042_KOR_LP\x64
160   C:\Program Files\Tanium\Tanium Server\Apache24\manual\style\css
161   C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-11-17-11-17-33\manual\misc
162   C:\Program Files\Microsoft SQL Server\110\SDK\Lib\x64
163   C:\Program Files\Microsoft SQL Server\110\SDK\Lib\x86
164   C:\Program Files\Tanium\Tanium Server\plugins\console\lib
165   C:\Program Files\Common Files\Microsoft Shared\ink\it-IT
166   C:\Program Files\Microsoft.NET
167   C:\Program Files\Microsoft SQL Server\110\DTS\DataDumps
168   C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-11-17-11-17-33\conf
169   C:\Program Files\Internet Explorer\images
170   C:\Program Files\Windows NT
171   C:\Program Files\Microsoft SQL Server\110\COM\Resources\1033
172   C:\Program Files\Microsoft SQL Server\MSSQL11.SQLEXPRESS\MSSQL\JOBS
173   C:\Program Files\Tanium\Tanium Server\Apache24\htdocs
174   C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\1041_JPN_LP
175   C:\Program Files\Tanium\Tanium Server\php55\extras
176   C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\1031_DEU_LP\x64\1031\help
177   C:\Program Files\Microsoft SQL Server\100\Setup Bootstrap
178   C:\Program Files\Common Files\SpeechEngines\Microsoft\TTS20
179   C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-09-16-20-44-23
180   C:\Program Files\Common Files\Microsoft Shared\Triedit
181   C:\Program Files\Microsoft.NET\ADOMD.NET\110
182   C:\Program Files\Microsoft SQL Server\110\Shared
183   C:\Program Files\Microsoft SQL Server\110\Tools\Binn
184   C:\Program Files\Microsoft Help Viewer
185   C:\Program Files\Microsoft SQL Server\100\Setup Bootstrap\Release\x64\Patch
186   C:\Program Files\Tanium\Tanium Server\Apache24\bin\iconv
187   C:\Program Files\Common Files\VMware\Drivers\memctl
188   C:\Program Files\Tanium\Tanium Server\plugins\console
189   C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-09-16-20-44-23\conf\original
190   C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-09-16-20-44-23\htdocs\php
191   C:\Program Files\Microsoft SQL Server\90\License Terms
192   C:\Program Files\Microsoft SQL Server\100\Setup Bootstrap\Release\Resources
193   C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\x64\pt
194   C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\x64\ru
195   C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-11-17-11-17-33\lib
196   C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\x64\it
197   C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\x64\ko
198   C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\x64\ja
199   C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\x64\es
200   C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\x64\de
201   C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\x64\fr
202   C:\Program Files\Common Files\Microsoft Shared\ink\he-IL
203   C:\Program Files\Common Files\Microsoft Shared\ink\ro-RO
204   C:\Program Files\Common Files\VMware\Drivers\pvscsi
205   C:\Program Files\Microsoft Visual Studio 10.0\Common7\Packages
206   C:\Program Files\Microsoft Visual Studio 10.0\Common7
207   C:\Program Files\Common Files\Services
208   C:\Program Files\Common Files\Microsoft Shared\ink\fsdefinitions\oskpred
209   C:\Program Files\Microsoft SQL Server\110\SDK\Lib
210   C:\Program Files\Microsoft SQL Server\110\DTS\PipelineComponents\Resources\1033
```

```
211  C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-09-16-20-44-23\manual\misc
212  C:\Program Files\Tanium\Tanium Server\Apache24\manual\misc
213  C:\Program Files\Common Files\SpeechEngines\Microsoft\TTS20\en-US
214  C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-11-17-11-17-33\modules
215  C:\Program Files\Microsoft SQL Server\110\DTS\Connections
216  C:\Program Files\Tanium\Tanium Server\Downloads\URLCache
217  C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\1046_PTB_LP
218  C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-09-16-20-44-23\manual\rewrite
219  C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-11-17-11-17-33\manual\images
220  C:\Program Files\Common Files\VMware\Drivers\vmci\device
221  C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-11-17-11-17-33\manual\rewrite
222  C:\Program Files\Common Files
223  C:\Program Files\Tanium\Tanium Server\Apache24\manual
224  C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-09-16-20-44-23\manual\platform
225  C:\Program Files\Tanium\Tanium Server\Apache24\conf\extra
226  C:\Program Files\Common Files\VMware\Drivers\vmci
227  C:\Program Files\Common Files\System\msadc\en-US
228  C:\Program Files\Common Files\System
229  C:\Program Files\Windows NT\Accessories\en-US
230  C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\1036_FRA_LP\x64\1036
231  C:\Program Files\Microsoft SQL Server\MSSQL11.SQLEXPRESS\MSSQL\Binn\Resources
232  C:\Program Files\Tanium\Tanium Server\plugins\console\RegistrySetting
233  C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\1046_PTB_LP\x64\1046
234  C:\Program Files\Tanium\Tanium Server\Apache24\manual\rewrite
235  C:\Program Files\VMware\VMware Tools
236  C:\Program Files\Common Files\Microsoft Shared\ink\fsdefinitions\numbers
237  C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\1049_RUS_LP\x64
238  C:\Program Files\Microsoft SQL Server\MSSQL11.SQLEXPRESS\MSSQL\Log
239  C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-09-16-20-44-23\lib
240  C:\Program Files\Windows NT\TableTextService
241  C:\Program Files\Microsoft SQL Server\MSSQL11.SQLEXPRESS\MSSQL\Binn\Resources\1055
242  C:\Program Files\Microsoft SQL Server\MSSQL11.SQLEXPRESS\MSSQL\Binn\Resources\1053
243  C:\Program Files\Microsoft SQL Server\MSSQL11.SQLEXPRESS\MSSQL\Binn\Resources\1049
244  C:\Program Files\Microsoft SQL Server\MSSQL11.SQLEXPRESS\MSSQL\Binn\Resources\1041
245  C:\Program Files\Microsoft SQL Server\MSSQL11.SQLEXPRESS\MSSQL\Binn\Resources\1040
246  C:\Program Files\Microsoft SQL Server\MSSQL11.SQLEXPRESS\MSSQL\Binn\Resources\1043
247  C:\Program Files\Microsoft SQL Server\MSSQL11.SQLEXPRESS\MSSQL\Binn\Resources\1042
248  C:\Program Files\Microsoft SQL Server\MSSQL11.SQLEXPRESS\MSSQL\Binn\Resources\1045
249  C:\Program Files\Microsoft SQL Server\MSSQL11.SQLEXPRESS\MSSQL\Binn\Resources\1044
250  C:\Program Files\Microsoft SQL Server\MSSQL11.SQLEXPRESS\MSSQL\Binn\Resources\1046
251  C:\Program Files\Microsoft SQL Server\MSSQL11.SQLEXPRESS\MSSQL\Binn\Resources\1038
252  C:\Program Files\Microsoft SQL Server\MSSQL11.SQLEXPRESS\MSSQL\Binn\Resources\1035
253  C:\Program Files\Microsoft SQL Server\MSSQL11.SQLEXPRESS\MSSQL\Binn\Resources\1036
254  C:\Program Files\Microsoft SQL Server\MSSQL11.SQLEXPRESS\MSSQL\Binn\Resources\1030
255  C:\Program Files\Microsoft SQL Server\MSSQL11.SQLEXPRESS\MSSQL\Binn\Resources\1031
256  C:\Program Files\Microsoft SQL Server\MSSQL11.SQLEXPRESS\MSSQL\Binn\Resources\1032
257  C:\Program Files\Microsoft SQL Server\MSSQL11.SQLEXPRESS\MSSQL\Binn\Resources\1033
258  C:\Program Files\Microsoft SQL Server\MSSQL11.SQLEXPRESS\MSSQL\Binn\Resources\1029
259  C:\Program Files\Microsoft SQL Server\MSSQL11.SQLEXPRESS\MSSQL\Binn\Resources\1028
260  C:\Program Files\Tanium\Tanium Server\Apache24\htdocs\console
261  C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\1042_KOR_LP\x64\1042
262  C:\Program Files\Tanium\Tanium Server\Apache24\error
263  C:\Program Files\Common Files\Microsoft Shared\ink\nb-NO
264  C:\Program Files\Tanium\Tanium Server\Apache24\manual\mod
265  C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\1041_JPN_LP\x64
266  C:\Program Files\Common Files\Microsoft Shared\ink\lv-LV
267  C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-09-16-20-44-23\manual
268  C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\1033_ENU_LP\x64\1033
```

```
269  C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-09-16-20-44-23\conf\original\extra
270  C:\Program Files\Common Files\Microsoft Shared\ink\fsdefinitions\auxpad
271  C:\Program Files\Common Files\Microsoft Shared\TextConv
272  C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-09-16-20-44-23\manual\developer
273  C:\Program Files\Common Files\Microsoft Shared\MSInfo\en-US
274  C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\3082_ESN_LP\x64\3082
275  C:\Program Files\Common Files\Microsoft Shared\ink\nl-NL
276  C:\Program Files\Tanium
277  C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-11-17-11-17-33\manual\howto
278  C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-11-17-11-17-33\include
279  C:\Program Files\Reference Assemblies\Microsoft\Framework\v3.5\RedistList
280  C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\Log\20140910_112532\Datastore_LandingPage
281  C:\Program Files\Microsoft SQL Server\100\KeyFile\1033
282  C:\Program Files\Microsoft SQL Server\110\Tools\Binn\Resources\1033
283  C:\Program Files\Tanium\Tanium Server\Downloads\Cache
284  C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-11-17-11-17-33\manual\style\latex
285  C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\3082_ESN_LP
286  C:\Program Files\Tanium\Tanium Server\php55\dev
287  C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-11-17-11-17-33\bin\iconv
288  C:\Program Files\VMware\VMware Tools\messages\zh_CN
289  C:\Program Files\Tanium\Tanium Server\Apache24\manual\vhosts
290  C:\Program Files\Common Files\VMware\Drivers\vmci\sockets
291  C:\Program Files\Microsoft SQL Server\90\Shared\Resources\1033
292  C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-09-16-20-44-23\conf
293  C:\Program Files\Common Files\VMware
294  C:\Program Files\Common Files\System\msadc
295  C:\Program Files\Microsoft SQL Server\110\Tools
296  C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-11-17-11-17-33\htdocs\php
297  C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\1040_ITA_LP
298  C:\Program Files\Common Files\Microsoft Shared\ink\fr-FR
299  C:\Program Files\Common Files\VMware\Drivers\vss
300  C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-11-17-11-17-33\bin
301  C:\Program Files\Common Files\Microsoft Shared\ink\tr-TR
302  C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-11-17-11-17-33\manual\programs
303  C:\Program Files\Common Files\Microsoft Shared\VC
304  C:\Program Files\Tanium\Tanium Server\php55\ext
305  C:\Program Files\Common Files\Microsoft Shared\WF
306  C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-09-16-20-44-23\manual\ssl
307  C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-11-17-11-17-33\htdocs
308  C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-11-17-11-17-33\htdocs\console
309  C:\Program Files\Microsoft SQL Server\MSSQL11.SQLEXPRESS\MSSQL\Binn\Templates
310  C:\Program Files\Tanium\Tanium Server\plugins
311  C:\Program Files\Tanium\Tanium Server\Apache24\icons\small
312  C:\Program Files\Microsoft SQL Server\110\Shared\en
313  C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-09-16-20-44-23\htdocs\php\Auth
314  C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-09-16-20-44-23\error\include
315  C:\Program Files\Microsoft SQL Server\100\Setup Bootstrap\Release\x64\Help
316  C:\Program Files\Microsoft Help Viewer\v1.0\Microsoft Help Viewer 1.1
317  C:\Program Files\Microsoft SQL Server\110\Tools\Binn\ManagementStudio
318  C:\Program Files\Common Files\Microsoft Shared\ink\fsdefinitions\symbols
319  C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\1036_FRA_LP\x64\1036\help
320  C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-11-17-11-17-33\manual
321  C:\Program Files\Common Files\System\Ole DB\en-US
322  C:\Program Files\Microsoft SQL Server\110\Tools\Binn\ManagementStudio\Extensions
323  C:\Program Files\Microsoft SQL Server\80\Tools\Binn
324  C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\2052_CHS_LP
325  C:\Program Files\Common Files\Microsoft Shared\ink\lt-LT
326  C:\Program Files\Microsoft SQL Server\MSSQL11.SQLEXPRESS\MSSQL\Binn
```

```
327   C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\x64
328   C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-09-16-20-44-23\htdocs
329   C:\Program Files\Microsoft SQL Server\100\KeyFile
330   C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-11-17-11-17-33\manual\style
331   C:\Program Files\Microsoft SQL Server\MSSQL11.SQLEXPRESS\MSSQL\Install
332   C:\Program Files\Common Files\Microsoft Shared\ink\et-EE
333   C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\1028_CHT_LP
334   C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\1040_ITA_LP\x64\1040
335   C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\1028_CHT_LP\x64
336   C:\Program Files\Common Files\VMware\Drivers\Virtual Printer\TPOGPS
337   C:\Program Files\Common Files\Microsoft Shared\ink\cs-CZ
338   C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\2052_CHS_LP\x64\2052\help
339   C:\Program Files\VMware
340   C:\Program Files\Microsoft SQL Server\110\Shared\VS2008
341   C:\Program Files\Microsoft Visual Studio 10.0\Common7\Packages\Debugger
342   C:\Program Files\Common Files\VMware\Drivers\mouse
343   C:\Program Files\Common Files\VMware\Drivers\vmci\sockets\bin
344   C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-09-16-20-44-23\bin\iconv
345   C:\Program Files\Common Files\Microsoft Shared\ink\en-US
346   C:\Program Files\Microsoft SQL Server\MSSQL11.SQLEXPRESS\MSSQL\Backup
347   C:\Program Files\Tanium\Tanium Server\VB
348   C:\Program Files\Microsoft SQL Server\110\DTS\ForEachEnumerators\Resources\1033
349   C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-11-17-11-17-33\manual\vhosts
350   C:\Program Files\Common Files\Microsoft Shared\ink\bg-BG
351   C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-11-17-11-17-33\manual\ssl
352   C:\Program Files\Tanium\Tanium Server\Apache24\bin
353   C:\Program Files\Common Files\System\Ole DB
354   C:\Program Files\Tanium\Tanium Server\Apache24\manual\faq
355   C:\Program Files\Microsoft SQL Server\MSSQL11.SQLEXPRESS
356   C:\Program Files\Common Files\VMware\Drivers\audio
357   C:\Program Files\Microsoft SQL Server\110\DTS\Binn\Resources
358   C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\1041_JPN_LP\x64\1041
359   C:\Program Files\Reference Assemblies\Microsoft\Framework\v3.0\RedistList
360   C:\Program Files\Tanium\Tanium Server\Downloads
361   C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\1049_RUS_LP\x64\1049\help
362   C:\Program Files\Microsoft Visual Studio 10.0\Common7\Packages\Debugger\x86
363   C:\Program Files\Microsoft Visual Studio 10.0\Common7\Packages\Debugger\X64
364   C:\Program Files\MSBuild\Microsoft\Windows Workflow Foundation
365   C:\Program Files\Microsoft SQL Server\100\Shared
366   C:\Program Files\Internet Explorer\SIGNUP
367   C:\Program Files\Common Files\Microsoft Shared\ink\es-ES
368   C:\Program Files\Tanium\Tanium Server\Support
369   C:\Program Files\Microsoft SQL Server\110\DTS\Binn
370   C:\Program Files\Common Files\Microsoft Shared\MSInfo
371   C:\Program Files\Reference Assemblies
372   C:\Program Files\Microsoft SQL Server\110\Shared\RsFxInstall
373   C:\Program Files\Microsoft Help Viewer\v1.0\CatalogInfo
374   C:\Program Files\Microsoft SQL Server\110\DTS\MappingFiles
375   C:\Program Files\Microsoft SQL Server\110\DTS\PipelineComponents\Resources
376   C:\Program Files\Common Files\Microsoft Shared\WF\amd64
377   C:\Program Files\Tanium\Tanium Server\plugins\console\SigVerifier
378   C:\Program Files\Tanium\Tanium Server\plugins\console\DashboardGroups
379   C:\Program Files\Microsoft SQL Server\80\Tools
380   C:\Program Files\Microsoft SQL Server\MSSQL11.SQLEXPRESS\MSSQL\Template Data
381   C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-09-16-20-44-23\icons
382   C:\Program Files\Common Files\Microsoft Shared\ink\de-DE
383   C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\1031_DEU_LP\x64\1031
384   C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\1042_KOR_LP
```

```
385  C:\Program Files\Microsoft Visual Studio 10.0\Common7\IDE
386  C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\1033_ENU_LP\x64\1033\help
387  C:\Program Files\Common Files\Microsoft Shared\ink\fsdefinitions\main
388  C:\Program Files\Microsoft Help Viewer\v1.0\StopWords
389  C:\Program Files\Microsoft SQL Server\110\Tools\Binn\ManagementStudio\Extensions\Application
390  C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap
391  C:\Program Files\Microsoft SQL Server\MSSQL11.SQLEXPRESS\MSSQL\repldata
392  C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\x64\zh-CHT
393  C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\x64\zh-CHS
394  C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-09-16-20-44-23\manual\vhosts
395  C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\1042_KOR_LP\x64\1042\help
396  C:\Program Files\Microsoft SQL Server\110\DTS\Tasks\en
397  C:\Program Files\Common Files\SpeechEngines
398  C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-09-16-20-44-23\logs
399  C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-09-16-20-44-23\manual\mod
400  C:\Program Files\VMware\VMware Tools\Drivers\hgfs
401  C:\Program Files\Tanium\Tanium Server\Apache24\conf\original
402  C:\Program Files\Uninstall Information
403  C:\Program Files\Reference Assemblies\Microsoft\Framework\v3.5
404  C:\Program Files\Reference Assemblies\Microsoft\Framework\v3.0
405  C:\Program Files\Microsoft Visual Studio 10.0\Common7\IDE\Xml
406  C:\Program Files\Microsoft SQL Server\110\DTS\PipelineComponents
407  C:\Program Files\Microsoft SQL Server\90\Shared\Resources
408  C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\1046_PTB_LP\x64\1046\help
409  C:\Program Files\Tanium\Tanium Server\Apache24\include
410  C:\Program Files\Tanium\Tanium Server\plugins\console\GroupFiliters
411  C:\Program Files\VMware\VMware Tools\Drivers
412  C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\1041_JPN_LP\x64\1041\help
413  C:\Program Files\Tanium\Tanium Server\Downloads\tmp
414  C:\Program Files\Microsoft SQL Server\100\Setup Bootstrap\Release
415  C:\Program Files\Tanium\Tanium Server\Apache24\conf\original\extra
416  C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-11-17-11-17-33\manual\style\scripts
417  C:\Program Files\Common Files\Microsoft Shared\ink\sr-Latn-CS
418  C:\Program Files\Common Files\Microsoft Shared\ink\fsdefinitions\osknumpad
419  C:\Program Files\Microsoft SQL Server\110\License Terms
420  C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012
421  C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\1031_DEU_LP\x64
422  C:\Program Files\Common Files\VMware\Drivers\vmxnet
423  C:\Program Files\Tanium\Tanium Server\Strings
424  C:\Program Files\MSBuild
425  C:\Program Files\Microsoft SQL Server\110\COM\Resources
426  C:\Program Files\Common Files\VMware\Drivers\Virtual Printer\TPOGPS\amd64
427  C:\Program Files\Microsoft SQL Server\80\COM
428  C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-09-16-20-44-23\htdocs\console\history
429  C:\Program Files\Tanium\Tanium Server\Apache24\manual\howto
430  C:\Program Files\Microsoft SQL Server\110\Shared\Resources\1033
431  C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-09-16-20-44-23\conf\extra
432  C:\Program Files\Common Files\Microsoft Shared\MSEnv
433  C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\2052_CHS_LP\x64\2052
434  C:\Program Files\Common Files\VMware\Drivers\Virtual Printer
435  C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-11-17-11-17-33\htdocs\console\history
436  C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\1028_CHT_LP\x64\1028
437  C:\Program Files\Microsoft SQL Server\110\Shared\VS2008\1033
438  C:\Program Files\Common Files\Microsoft Shared\ink\pt-BR
439  C:\Program Files\Common Files\Microsoft Shared\ink\pt-PT
440  C:\Program Files\Common Files\System\ado
441  C:\Program Files\Microsoft SQL Server\110\KeyFile\1033
442  C:\Program Files\Tanium\Tanium Server\SOAPUpload
```

```
443  C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\Resources\2052
444  C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\Log\20140910_112604\resources
445  C:\Program Files\Microsoft SQL Server\MSSQL11.SQLEXPRESS\MSSQL\DATA
446  C:\Program Files\Tanium\Tanium Server\php55\extras\ssl
447  C:\Program Files\Common Files\Microsoft Shared\ink\el-GR
448  C:\Program Files\VMware\VMware Tools\win32
449  C:\Program Files\VMware\VMware Tools\win64
450  C:\Program Files\Microsoft SQL Server\110\Shared\Resources
451  C:\Program Files\Internet Explorer
452  C:\Program Files\Tanium\Tanium Server\Apache24\icons
453  C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\1033_ENU_LP\x64
454  C:\Program Files\Microsoft SQL Server\MSSQL11.SQLEXPRESS\MSSQL
455  C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\1031_DEU_LP
456  C:\Program Files\Tanium\Tanium Server\Apache24\manual\programs
457  C:\Program Files\Common Files\VMware\Drivers\vmxnet3
458  C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\1049_RUS_LP
459  C:\Program Files\VMware\VMware Tools\Drivers\hgfs\wow64
460  C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\Log
461  C:\Program Files\Microsoft SQL Server\90\License Terms\1033
462  C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-11-17-11-17-33\logs
463  C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-11-17-11-17-33\manual\faq
464  C:\Program Files\Tanium\Tanium Server\Suppot_patch1
465  C:\Program Files\Common Files\Microsoft Shared\ink\fsdefinitions\web
466  C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-11-17-11-17-33\cgi-bin
467  C:\Program Files\Tanium\Tanium Server\Apache24\manual\developer
468  C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\Resources\1036
469  C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\Resources\1033
470  C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\Resources\1031
471  C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\Resources\1028
472  C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\Resources\1049
473  C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\Resources\1046
474  C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\Resources\1042
475  C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\Resources\1041
476  C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\Resources\1040
477  C:\Program Files\Microsoft SQL Server\100\Setup Bootstrap\Release\x64
478  C:\Program Files\Tanium\Tanium Server\Apache24\manual\style\latex
479  C:\Program Files\Tanium\Tanium Server
480  C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-09-16-20-44-23\htdocs\console
481  C:\Program Files\Tanium\Tanium Server\http
482  C:\Program Files\Common Files\Microsoft Shared\ink\ja-JP
483  C:\Program Files\Microsoft SQL Server\110\DTS\Packages
484  C:\Program Files\Common Files\Microsoft Shared\ink\sk-SK
485  C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-11-17-11-17-33\manual\style\css
486  C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-11-17-11-17-33\conf\original
487  C:\Program Files\Tanium\Tanium Server\Apache24\htdocs\php
488  C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-09-16-20-44-23\manual\howto
489  C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-09-16-20-44-23\manual\style\latex
490  C:\Program Files\Common Files\Microsoft Shared\ink\hr-HR
491  C:\Program Files\Common Files\VMware\Drivers
492  C:\Program Files\Tanium\Tanium Server\Apache24\lib
493  C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\Log\20140910_112532
494  C:\Program Files\Microsoft Help Viewer\v1.0
495  C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-11-17-11-17-33\conf\extra
496  C:\Program Files\Tanium\Tanium Server\Apache24
497  C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-09-16-20-44-23\manual\style\scripts
498  C:\Program Files\Common Files\Microsoft Shared\VGX
499  C:\Program Files\Microsoft SQL Server\110\DTS\ProviderDescriptors
500  C:\Program Files\Microsoft SQL Server\110\COM\en
```

```
501  C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-09-16-20-44-23\manual\faq
502  C:\Program Files\Tanium\Tanium Server\Apache24\manual\style\scripts
503  C:\Program Files\Common Files\Microsoft Shared\Triedit\en-US
504  C:\Program Files\Microsoft SQL Server\100\Setup Bootstrap\Release\x64\Help\1033
505  C:\Program Files\Microsoft SQL Server\110\COM
506  C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\1046_PTB_LP\x64
507  C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\Log\20140910_112831\Datastore_GlobalRules
508  C:\Program Files\Common Files\Microsoft Shared\TextConv\en-US
509  C:\Program Files\VMware\VMware Tools\plugins
510  C:\Program Files\Microsoft SQL Server\110\DTS
511  C:\Program Files\Tanium\Tanium Server\plugins\console\SavedQuestions
512  C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-11-17-11-17-33\error\include
513  C:\Program Files\Common Files\System\ado\en-US
514  C:\Program Files\Tanium\Tanium Server\Apache24\cgi-bin
515  C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\Log\20140910_112604
516  C:\Program Files\VMware\VMware Tools\plugins\vmusr
517  C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\Log\20140910_112831\Datastore
518  C:\Program Files\Microsoft SQL Server\MSSQL11.SQLEXPRESS\MSSQL\Binn\DllTmp64
519  C:\Program Files\Microsoft SQL Server\MSSQL11.SQLEXPRESS\MSSQL\Binn\DllTmp32
520  C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-09-16-20-44-23\manual\programs
521  C:\Program Files\Microsoft SQL Server\110\Tools\Binn\Resources
522  C:\Program Files\Tanium\Tanium Server\php55
523  C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-09-16-20-44-23\manual\style
524  C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\1040_ITA_LP\x64
525  C:\Program Files\Reference Assemblies\Microsoft
526  C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-09-16-20-44-23\include
527  C:\Program Files\Tanium\Tanium Server\Apache24\manual\images
528  C:\Program Files\Common Files\Microsoft Shared\ink\fsdefinitions
529  C:\Program Files\Microsoft SQL Server\110\SDK\Assemblies\en
530  C:\Program Files\Tanium\Tanium Server\Logs
531  C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-11-17-11-17-33\manual\mod
532  C:\Program Files\Common Files\VMware\Drivers\Virtual Printer\TPOG3
533  C:\Program Files\Microsoft SQL Server\110
534  C:\Program Files\Microsoft SQL Server\100
535  C:\Program Files\Tanium\Tanium Server\Apache24\modules
536  C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-11-17-11-17-33\manual\platform
537  C:\Program Files\Microsoft Visual Studio 10.0
538  C:\Program Files\Microsoft SQL Server\MSSQL11.SQLEXPRESS\MSSQL\Binn\Resources\3082
539  C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\Log\20140910_112831
540  C:\Program Files\VMware\VMware Tools\plugins\common
541  C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\Log\20140910_112804
542  C:\Program Files\Common Files\Microsoft Shared\ink\th-TH
543  C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-11-17-11-17-33\icons
544  C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\Log\20140910_112831\Datastore_ComponentUpd
545  C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-11-17-11-17-33\error
546  C:\Program Files\Microsoft SQL Server
547  C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-09-16-20-44-23\error
548  C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\3082_ESN_LP\x64
549  C:\Program Files\Common Files\Microsoft Shared\SQL Debugging
550  C:\Program Files\Tanium\Tanium Server\Apache24\error\include
551  C:\Program Files\Microsoft SQL Server\110\SDK\Assemblies
552  C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\x64\Patch
553  C:\Program Files\Microsoft Help Viewer\v1.0\en
554  C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\3082_ESN_LP\x64\3082\help
555  C:\Program Files\Microsoft SQL Server\90\Shared
556  C:\Program Files\Microsoft SQL Server\MSSQL11.SQLEXPRESS\MSSQL\Binn\Resources\2052
557  C:\Program Files\Microsoft SQL Server\MSSQL11.SQLEXPRESS\MSSQL\Binn\Resources\2070
558  C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-11-17-11-17-33\conf\original\extra
```

```
559  C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-11-17-11-17-33\manual\developer
560  C:\Program Files\Common Files\Microsoft Shared\ink\pl-PL
561  C:\Program Files\Common Files\SpeechEngines\Microsoft\TTS20\en-US\enu-dsk
562  C:\Program Files\Common Files\Microsoft Shared\Stationery
563  C:\Program Files\Common Files\Microsoft Shared\VS7Debug\1033
564  C:\Program Files\Microsoft SQL Server\100\Setup Bootstrap\Bin
565  C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\Resources
566  C:\Program Files\Microsoft SQL Server\110\Shared\ErrorDumps
567  C:\Program Files\Internet Explorer\en-US
568  C:\Program Files\VMware\VMware Tools\messages\it
569  C:\Program Files\VMware\VMware Tools\messages\ja
570  C:\Program Files\VMware\VMware Tools\messages\ko
571  C:\Program Files\VMware\VMware Tools\messages\de
572  C:\Program Files\VMware\VMware Tools\messages\es
573  C:\Program Files\VMware\VMware Tools\messages\fr
574  C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\1036_FRA_LP
575  C:\Program Files\Microsoft SQL Server\110\DTS\Tasks","0.0.0.0
576  0.0.0.0
577  0.0.0.0
578  172.16.31.2
579  0.0.0.0","172.16.31.128
580  fe80::5968:4e9d:b4fc:88ef","-
581  -
582  -
583  -
584  -","255.255.255.255
585  255.255.255.0
586  255.255.255.255
587  0.0.0.0
588  255.0.0.0","266
589  266
590  306
591  266
592  306"
```

Export resultset csv sort false

Export a ResultSet from asking a question as CSV with false for header_sort

Example Python Code

```python
1   # Path to lib directory which contains pytan package
2   PYTAN_LIB_PATH = '../lib'
3
4   # connection info for Tanium Server
5   USERNAME = "Tanium User"
6   PASSWORD = "T@n!um"
7   HOST = "172.16.31.128"
8   PORT = "444"
9
10  # Logging conrols
11  LOGLEVEL = 2
12  DEBUGFORMAT = False
13
14  import sys, tempfile
```

```
15   sys.path.append(PYTAN_LIB_PATH)
16
17   import pytan
18   handler = pytan.Handler(
19       username=USERNAME,
20       password=PASSWORD,
21       host=HOST,
22       port=PORT,
23       loglevel=LOGLEVEL,
24       debugformat=DEBUGFORMAT,
25   )
26
27   print handler
28
29   # setup the export_obj kwargs for later
30   export_kwargs = {}
31   export_kwargs["export_format"] = u'csv'
32   export_kwargs["header_sort"] = False
33
34   # ask the question that will provide the resultset that we want to use
35   ask_kwargs = {
36       'qtype': 'manual_human',
37       'sensors': [
38           "Computer Name", "IP Route Details", "IP Address",
39           'Folder Name Search with RegEx Match{dirname=Program Files,regex=.*Shared.*}',
40       ],
41   }
42   response = handler.ask(**ask_kwargs)
43
44   # export the object to a string
45   # (we could just as easily export to a file using export_to_report_file)
46   export_kwargs['obj'] = response['question_results']
47   export_str = handler.export_obj(**export_kwargs)
48
49
50   print ""
51   print "print the export_str returned from export_obj():"
52   print export_str
```

Output from Python Code

```
1   Handler for Session to 172.16.31.128:444, Authenticated: True, Version: 6.2.314.3258
2   2014-12-07 01:19:50,832 INFO     question_progress: Results 0% (Get Computer Name and IP Route Detai
3   2014-12-07 01:19:55,860 INFO     question_progress: Results 0% (Get Computer Name and IP Route Detai
4   2014-12-07 01:20:00,892 INFO     question_progress: Results 50% (Get Computer Name and IP Route Deta
5   2014-12-07 01:20:05,916 INFO     question_progress: Results 50% (Get Computer Name and IP Route Deta
6   2014-12-07 01:20:10,944 INFO     question_progress: Results 50% (Get Computer Name and IP Route Deta
7   2014-12-07 01:20:15,970 INFO     question_progress: Results 100% (Get Computer Name and IP Route Det
8
9   print the export_str returned from export_obj():
10  Computer Name,Destination,Gateway,Mask,Flags,Metric,Interface,IP Address,"Folder Name Search with Re
11  Casus-Belli.local,"default
12  192.168.0
13  169.254
14  172.16.31/24
15  192.168.0.1/32
16  172.16.152/24
```

```
17  192.168.0.3/32","192.168.0.1
18  link#4
19  link#4
20  link#13
21  link#4
22  link#12
23  link#4","None
24  None
25  None
26  None
27  None
28  None
29  None","UGSc
30  UCS
31  UCS
32  UC
33  UCS
34  UC
35  UCS","None
36  None
37  None
38  None
39  None
40  None
41  None","en0
42  en0
43  en0
44  vmnet8
45  en0
46  vmnet1
47  en0","fe80::e896:c1c9:d927:bbe0
48  2604:2000:69e6:1a00:82e6:50ff:fe1d:1dca
49  172.16.31.1
50  fe80::82e6:50ff:fe1d:1dca
51  172.16.152.1
52  192.168.0.3
53  fe80::2886:21ff:fe7f:3ef4
54  2604:2000:69e6:1a00:95ad:5fe5:cf9e:5403
55  fd1b:56a6:50eb:cd49:e896:c1c9:d927:bbe0",Windows Only
56  jtanium1.localdomain,"172.16.31.128
57  172.16.31.0
58  127.0.0.1
59  0.0.0.0
60  127.0.0.0","0.0.0.0
61  0.0.0.0
62  0.0.0.0
63  172.16.31.2
64  0.0.0.0","255.255.255.255
65  255.255.255.0
66  255.255.255.255
67  0.0.0.0
68  255.0.0.0","-
69  -
70  -
71  -
72  -","266
73  266
74  306
```

```
 75  266
 76  306","-
 77  -
 78  -
 79  -
 80  -","172.16.31.128
 81  fe80::5968:4e9d:b4fc:88ef","C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-09-16-20-44-23\cg
 82  C:\Program Files\VMware\VMware Tools\plugins\vmsvc
 83  C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\1040_ITA_LP\x64\1040\help
 84  C:\Program Files\Common Files\Microsoft Shared\VS7Debug
 85  C:\Program Files\Tanium\Tanium Server\Apache24\manual\style
 86  C:\Program Files\Tanium\Tanium Server\Apache24\htdocs\console\history
 87  C:\Program Files\Common Files\VMware\Drivers\vmci\sockets\include
 88  C:\Program Files\Common Files\Microsoft Shared\ink\ar-SA
 89  C:\Program Files\Tanium\Tanium Server\plugins\console\Dashboards
 90  C:\Program Files\Tanium\Tanium Server\CertificateBackup2014-11-17-11-17-33
 91  C:\Program Files\Common Files\SpeechEngines\Microsoft
 92  C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-09-16-20-44-23\modules
 93  C:\Program Files\Common Files\Microsoft Shared\ink\ru-RU
 94  C:\Program Files\Microsoft SQL Server\110\DTS\ForEachEnumerators\en
 95  C:\Program Files\Tanium\Tanium Server\Apache24\htdocs\php\Auth
 96  C:\Program Files\MSBuild\Microsoft\Windows Workflow Foundation\v3.0
 97  C:\Program Files\MSBuild\Microsoft\Windows Workflow Foundation\v3.5
 98  C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\2052_CHS_LP\x64
 99  C:\Program Files\Common Files\Microsoft Shared\ink\fsdefinitions\keypad
100  C:\Program Files\Tanium\Tanium Server\plugins\console\InstallPlugin
101  C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\Log\20140910_112831\resources
102  C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\Bin
103  C:\Program Files\Microsoft SQL Server\110\DTS\ForEachEnumerators
104  C:\Program Files\Tanium\Tanium Server\Apache24\conf
105  C:\Program Files\MSBuild\Microsoft
106  C:\Program Files\Microsoft SQL Server\110\DTS\UpgradeMappings
107  C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-11-17-11-17-33\htdocs\php\Auth
108  C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-09-16-20-44-23\manual\style\css
109  C:\Program Files\Common Files\Microsoft Shared\ink
110  C:\Program Files\Common Files\Microsoft Shared\ink\sv-SE
111  C:\Program Files\VMware\VMware Tools\messages
112  C:\Program Files\Microsoft SQL Server\110\DTS\ForEachEnumerators\Resources
113  C:\Program Files\Common Files\Microsoft Shared\ink\uk-UA
114  C:\Program Files\Microsoft SQL Server\110\DTS\Binn\Resources\1033
115  C:\Program Files\Tanium\Tanium Server\Apache24\manual\platform
116  C:\Program Files\Microsoft SQL Server\110\KeyFile
117  C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\Resources\3082
118  C:\Program Files\Tanium\Tanium Server\CertificateBackup2014-09-16-20-44-23
119  C:\Program Files\Microsoft SQL Server\100\Setup Bootstrap\Release\x64\1033
120  C:\Program Files\Microsoft.NET\ADOMD.NET
121  C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\1028_CHT_LP\x64\1028\help
122  C:\Program Files\Common Files\Microsoft Shared\ink\sl-SI
123  C:\Program Files\Tanium\Tanium Server\plugins\console\UserGroups
124  C:\Program Files\Common Files\Microsoft Shared\ink\hu-HU
125  C:\Program Files\Common Files\System\en-US
126  C:\Program Files\Common Files\Microsoft Shared\ink\zh-TW
127  C:\Program Files\Common Files\Microsoft Shared\ink\zh-CN
128  C:\Program Files\Common Files\VMware\Drivers\video_wddm
129  C:\Program Files\Common Files\Microsoft Shared\ink\fi-FI
130  C:\Program Files\Common Files\Microsoft Shared
131  C:\Program Files\Microsoft SQL Server\110\SDK\Include
132  C:\Program Files\Common Files\Microsoft Shared\ink\da-DK
```

```
133   C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-09-16-20-44-23\icons\small
134   C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-11-17-11-17-33
135   C:\Program Files\Microsoft Visual Studio 10.0\Common7\IDE\PrivateAssemblies
136   C:\Program Files\Microsoft SQL Server\80
137   C:\Program Files\Microsoft SQL Server\90
138   C:\Program Files\Windows Mail
139   C:\Program Files\Common Files\VMware\Drivers\vmci\sockets\bin\win64
140   C:\Program Files\Common Files\VMware\Drivers\vmci\sockets\bin\win32
141   C:\Program Files\Common Files\Microsoft Shared\ink\fsdefinitions\oskmenu
142   C:\Program Files\Microsoft SQL Server\110\DTS\LogProviders
143   C:\Program Files\Microsoft SQL Server\100\Setup Bootstrap\Release\Resources\1033
144   C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\1049_RUS_LP\x64\1049
145   C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\Log\20140910_112604\Datastore_GlobalRules
146   C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-09-16-20-44-23\manual\images
147   C:\Program Files\Microsoft SQL Server\110\SDK
148   C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\1036_FRA_LP\x64
149   C:\Program Files\Windows NT\Accessories
150   C:\Program Files\Tanium\Tanium Server\content_public_keys
151   C:\Program Files\Windows NT\TableTextService\en-US
152   C:\Program Files\Tanium\Tanium Server\plugins\console\Manifest
153   C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-09-16-20-44-23\bin
154   C:\Program Files\Tanium\Tanium Server\Apache24\logs
155   C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\1033_ENU_LP
156   C:\Program Files\Tanium\Tanium Server\plugins\content
157   C:\Program Files\Reference Assemblies\Microsoft\Framework
158   C:\Program Files\Microsoft SQL Server\110\DTS\Connections\en
159   C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-11-17-11-17-33\icons\small
160   C:\Program Files\Common Files\VMware\Drivers\Virtual Printer\TPOG3\amd64
161   C:\Program Files\Microsoft Visual Studio 10.0\Common7\IDE\PrivateAssemblies\1033
162   C:\Program Files\Common Files\Microsoft Shared\ink\ko-KR
163   C:\Program Files\Tanium\Tanium Server\Apache24\manual\ssl
164   C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\1042_KOR_LP\x64
165   C:\Program Files\Tanium\Tanium Server\Apache24\manual\style\css
166   C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-11-17-11-17-33\manual\misc
167   C:\Program Files\Microsoft SQL Server\110\SDK\Lib\x64
168   C:\Program Files\Microsoft SQL Server\110\SDK\Lib\x86
169   C:\Program Files\Tanium\Tanium Server\plugins\console\lib
170   C:\Program Files\Common Files\Microsoft Shared\ink\it-IT
171   C:\Program Files\Microsoft.NET
172   C:\Program Files\Microsoft SQL Server\110\DTS\DataDumps
173   C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-11-17-11-17-33\conf
174   C:\Program Files\Internet Explorer\images
175   C:\Program Files\Windows NT
176   C:\Program Files\Microsoft SQL Server\110\COM\Resources\1033
177   C:\Program Files\Microsoft SQL Server\MSSQL11.SQLEXPRESS\MSSQL\JOBS
178   C:\Program Files\Tanium\Tanium Server\Apache24\htdocs
179   C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\1041_JPN_LP
180   C:\Program Files\Tanium\Tanium Server\php55\extras
181   C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\1031_DEU_LP\x64\1031\help
182   C:\Program Files\Microsoft SQL Server\100\Setup Bootstrap
183   C:\Program Files\Common Files\SpeechEngines\Microsoft\TTS20
184   C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-09-16-20-44-23
185   C:\Program Files\Common Files\Microsoft Shared\Triedit
186   C:\Program Files\Microsoft.NET\ADOMD.NET\110
187   C:\Program Files\Microsoft SQL Server\110\Shared
188   C:\Program Files\Microsoft SQL Server\110\Tools\Binn
189   C:\Program Files\Microsoft Help Viewer
190   C:\Program Files\Microsoft SQL Server\100\Setup Bootstrap\Release\x64\Patch
```

```
191   C:\Program Files\Tanium\Tanium Server\Apache24\bin\iconv
192   C:\Program Files\Common Files\VMware\Drivers\memctl
193   C:\Program Files\Tanium\Tanium Server\plugins\console
194   C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-09-16-20-44-23\conf\original
195   C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-09-16-20-44-23\htdocs\php
196   C:\Program Files\Microsoft SQL Server\90\License Terms
197   C:\Program Files\Microsoft SQL Server\100\Setup Bootstrap\Release\Resources
198   C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\x64\pt
199   C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\x64\ru
200   C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-11-17-11-17-33\lib
201   C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\x64\it
202   C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\x64\ko
203   C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\x64\ja
204   C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\x64\es
205   C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\x64\de
206   C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\x64\fr
207   C:\Program Files\Common Files\Microsoft Shared\ink\he-IL
208   C:\Program Files\Common Files\Microsoft Shared\ink\ro-RO
209   C:\Program Files\Common Files\VMware\Drivers\pvscsi
210   C:\Program Files\Microsoft Visual Studio 10.0\Common7\Packages
211   C:\Program Files\Microsoft Visual Studio 10.0\Common7
212   C:\Program Files\Common Files\Services
213   C:\Program Files\Common Files\Microsoft Shared\ink\fsdefinitions\oskpred
214   C:\Program Files\Microsoft SQL Server\110\SDK\Lib
215   C:\Program Files\Microsoft SQL Server\110\DTS\PipelineComponents\Resources\1033
216   C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-09-16-20-44-23\manual\misc
217   C:\Program Files\Tanium\Tanium Server\Apache24\manual\misc
218   C:\Program Files\Common Files\SpeechEngines\Microsoft\TTS20\en-US
219   C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-11-17-11-17-33\modules
220   C:\Program Files\Microsoft SQL Server\110\DTS\Connections
221   C:\Program Files\Tanium\Tanium Server\Downloads\URLCache
222   C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\1046_PTB_LP
223   C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-09-16-20-44-23\manual\rewrite
224   C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-11-17-11-17-33\manual\images
225   C:\Program Files\Common Files\VMware\Drivers\vmci\device
226   C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-11-17-11-17-33\manual\rewrite
227   C:\Program Files\Common Files
228   C:\Program Files\Tanium\Tanium Server\Apache24\manual
229   C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-09-16-20-44-23\manual\platform
230   C:\Program Files\Tanium\Tanium Server\Apache24\conf\extra
231   C:\Program Files\Common Files\VMware\Drivers\vmci
232   C:\Program Files\Common Files\System\msadc\en-US
233   C:\Program Files\Common Files\System
234   C:\Program Files\Windows NT\Accessories\en-US
235   C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\1036_FRA_LP\x64\1036
236   C:\Program Files\Microsoft SQL Server\MSSQL11.SQLEXPRESS\MSSQL\Binn\Resources
237   C:\Program Files\Tanium\Tanium Server\plugins\console\RegistrySetting
238   C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\1046_PTB_LP\x64\1046
239   C:\Program Files\Tanium\Tanium Server\Apache24\manual\rewrite
240   C:\Program Files\VMware\VMware Tools
241   C:\Program Files\Common Files\Microsoft Shared\ink\fsdefinitions\numbers
242   C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\1049_RUS_LP\x64
243   C:\Program Files\Microsoft SQL Server\MSSQL11.SQLEXPRESS\MSSQL\Log
244   C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-09-16-20-44-23\lib
245   C:\Program Files\Windows NT\TableTextService
246   C:\Program Files\Microsoft SQL Server\MSSQL11.SQLEXPRESS\MSSQL\Binn\Resources\1055
247   C:\Program Files\Microsoft SQL Server\MSSQL11.SQLEXPRESS\MSSQL\Binn\Resources\1053
248   C:\Program Files\Microsoft SQL Server\MSSQL11.SQLEXPRESS\MSSQL\Binn\Resources\1049
```

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249   C:\Program Files\Microsoft SQL Server\MSSQL11.SQLEXPRESS\MSSQL\Binn\Resources\1041
250   C:\Program Files\Microsoft SQL Server\MSSQL11.SQLEXPRESS\MSSQL\Binn\Resources\1040
251   C:\Program Files\Microsoft SQL Server\MSSQL11.SQLEXPRESS\MSSQL\Binn\Resources\1043
252   C:\Program Files\Microsoft SQL Server\MSSQL11.SQLEXPRESS\MSSQL\Binn\Resources\1042
253   C:\Program Files\Microsoft SQL Server\MSSQL11.SQLEXPRESS\MSSQL\Binn\Resources\1045
254   C:\Program Files\Microsoft SQL Server\MSSQL11.SQLEXPRESS\MSSQL\Binn\Resources\1044
255   C:\Program Files\Microsoft SQL Server\MSSQL11.SQLEXPRESS\MSSQL\Binn\Resources\1046
256   C:\Program Files\Microsoft SQL Server\MSSQL11.SQLEXPRESS\MSSQL\Binn\Resources\1038
257   C:\Program Files\Microsoft SQL Server\MSSQL11.SQLEXPRESS\MSSQL\Binn\Resources\1035
258   C:\Program Files\Microsoft SQL Server\MSSQL11.SQLEXPRESS\MSSQL\Binn\Resources\1036
259   C:\Program Files\Microsoft SQL Server\MSSQL11.SQLEXPRESS\MSSQL\Binn\Resources\1030
260   C:\Program Files\Microsoft SQL Server\MSSQL11.SQLEXPRESS\MSSQL\Binn\Resources\1031
261   C:\Program Files\Microsoft SQL Server\MSSQL11.SQLEXPRESS\MSSQL\Binn\Resources\1032
262   C:\Program Files\Microsoft SQL Server\MSSQL11.SQLEXPRESS\MSSQL\Binn\Resources\1033
263   C:\Program Files\Microsoft SQL Server\MSSQL11.SQLEXPRESS\MSSQL\Binn\Resources\1029
264   C:\Program Files\Microsoft SQL Server\MSSQL11.SQLEXPRESS\MSSQL\Binn\Resources\1028
265   C:\Program Files\Tanium\Tanium Server\Apache24\htdocs\console
266   C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\1042_KOR_LP\x64\1042
267   C:\Program Files\Tanium\Tanium Server\Apache24\error
268   C:\Program Files\Common Files\Microsoft Shared\ink\nb-NO
269   C:\Program Files\Tanium\Tanium Server\Apache24\manual\mod
270   C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\1041_JPN_LP\x64
271   C:\Program Files\Common Files\Microsoft Shared\ink\lv-LV
272   C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-09-16-20-44-23\manual
273   C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\1033_ENU_LP\x64\1033
274   C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-09-16-20-44-23\conf\original\extra
275   C:\Program Files\Common Files\Microsoft Shared\ink\fsdefinitions\auxpad
276   C:\Program Files\Common Files\Microsoft Shared\TextConv
277   C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-09-16-20-44-23\manual\developer
278   C:\Program Files\Common Files\Microsoft Shared\MSInfo\en-US
279   C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\3082_ESN_LP\x64\3082
280   C:\Program Files\Common Files\Microsoft Shared\ink\nl-NL
281   C:\Program Files\Tanium
282   C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-11-17-11-17-33\manual\howto
283   C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-11-17-11-17-33\include
284   C:\Program Files\Reference Assemblies\Microsoft\Framework\v3.5\RedistList
285   C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\Log\20140910_112532\Datastore_LandingPage
286   C:\Program Files\Microsoft SQL Server\100\KeyFile\1033
287   C:\Program Files\Microsoft SQL Server\110\Tools\Binn\Resources\1033
288   C:\Program Files\Tanium\Tanium Server\Downloads\Cache
289   C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-11-17-11-17-33\manual\style\latex
290   C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\3082_ESN_LP
291   C:\Program Files\Tanium\Tanium Server\php55\dev
292   C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-11-17-11-17-33\bin\iconv
293   C:\Program Files\VMware\VMware Tools\messages\zh_CN
294   C:\Program Files\Tanium\Tanium Server\Apache24\manual\vhosts
295   C:\Program Files\Common Files\VMware\Drivers\vmci\sockets
296   C:\Program Files\Microsoft SQL Server\90\Shared\Resources\1033
297   C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-09-16-20-44-23\conf
298   C:\Program Files\Common Files\VMware
299   C:\Program Files\Common Files\System\msadc
300   C:\Program Files\Microsoft SQL Server\110\Tools
301   C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-11-17-11-17-33\htdocs\php
302   C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\1040_ITA_LP
303   C:\Program Files\Common Files\Microsoft Shared\ink\fr-FR
304   C:\Program Files\Common Files\VMware\Drivers\vss
305   C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-11-17-11-17-33\bin
306   C:\Program Files\Common Files\Microsoft Shared\ink\tr-TR
```

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307  C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-11-17-11-17-33\manual\programs
308  C:\Program Files\Common Files\Microsoft Shared\VC
309  C:\Program Files\Tanium\Tanium Server\php55\ext
310  C:\Program Files\Common Files\Microsoft Shared\WF
311  C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-09-16-20-44-23\manual\ssl
312  C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-11-17-11-17-33\htdocs
313  C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-11-17-11-17-33\htdocs\console
314  C:\Program Files\Microsoft SQL Server\MSSQL11.SQLEXPRESS\MSSQL\Binn\Templates
315  C:\Program Files\Tanium\Tanium Server\plugins
316  C:\Program Files\Tanium\Tanium Server\Apache24\icons\small
317  C:\Program Files\Microsoft SQL Server\110\Shared\en
318  C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-09-16-20-44-23\htdocs\php\Auth
319  C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-09-16-20-44-23\error\include
320  C:\Program Files\Microsoft SQL Server\100\Setup Bootstrap\Release\x64\Help
321  C:\Program Files\Microsoft Help Viewer\v1.0\Microsoft Help Viewer 1.1
322  C:\Program Files\Microsoft SQL Server\110\Tools\Binn\ManagementStudio
323  C:\Program Files\Common Files\Microsoft Shared\ink\fsdefinitions\symbols
324  C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\1036_FRA_LP\x64\1036\help
325  C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-11-17-11-17-33\manual
326  C:\Program Files\Common Files\System\Ole DB\en-US
327  C:\Program Files\Microsoft SQL Server\110\Tools\Binn\ManagementStudio\Extensions
328  C:\Program Files\Microsoft SQL Server\80\Tools\Binn
329  C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\2052_CHS_LP
330  C:\Program Files\Common Files\Microsoft Shared\ink\lt-LT
331  C:\Program Files\Microsoft SQL Server\MSSQL11.SQLEXPRESS\MSSQL\Binn
332  C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\x64
333  C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-09-16-20-44-23\htdocs
334  C:\Program Files\Microsoft SQL Server\100\KeyFile
335  C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-11-17-11-17-33\manual\style
336  C:\Program Files\Microsoft SQL Server\MSSQL11.SQLEXPRESS\MSSQL\Install
337  C:\Program Files\Common Files\Microsoft Shared\ink\et-EE
338  C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\1028_CHT_LP
339  C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\1040_ITA_LP\x64\1040
340  C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\1028_CHT_LP\x64
341  C:\Program Files\Common Files\VMware\Drivers\Virtual Printer\TPOGPS
342  C:\Program Files\Common Files\Microsoft Shared\ink\cs-CZ
343  C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\2052_CHS_LP\x64\2052\help
344  C:\Program Files\VMware
345  C:\Program Files\Microsoft SQL Server\110\Shared\VS2008
346  C:\Program Files\Microsoft Visual Studio 10.0\Common7\Packages\Debugger
347  C:\Program Files\Common Files\VMware\Drivers\mouse
348  C:\Program Files\Common Files\VMware\Drivers\vmci\sockets\bin
349  C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-09-16-20-44-23\bin\iconv
350  C:\Program Files\Common Files\Microsoft Shared\ink\en-US
351  C:\Program Files\Microsoft SQL Server\MSSQL11.SQLEXPRESS\MSSQL\Backup
352  C:\Program Files\Tanium\Tanium Server\VB
353  C:\Program Files\Microsoft SQL Server\110\DTS\ForEachEnumerators\Resources\1033
354  C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-11-17-11-17-33\manual\vhosts
355  C:\Program Files\Common Files\Microsoft Shared\ink\bg-BG
356  C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-11-17-11-17-33\manual\ssl
357  C:\Program Files\Tanium\Tanium Server\Apache24\bin
358  C:\Program Files\Common Files\System\Ole DB
359  C:\Program Files\Tanium\Tanium Server\Apache24\manual\faq
360  C:\Program Files\Microsoft SQL Server\MSSQL11.SQLEXPRESS
361  C:\Program Files\Common Files\VMware\Drivers\audio
362  C:\Program Files\Microsoft SQL Server\110\DTS\Binn\Resources
363  C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\1041_JPN_LP\x64\1041
364  C:\Program Files\Reference Assemblies\Microsoft\Framework\v3.0\RedistList
```

```
365   C:\Program Files\Tanium\Tanium Server\Downloads
366   C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\1049_RUS_LP\x64\1049\help
367   C:\Program Files\Microsoft Visual Studio 10.0\Common7\Packages\Debugger\x86
368   C:\Program Files\Microsoft Visual Studio 10.0\Common7\Packages\Debugger\X64
369   C:\Program Files\MSBuild\Microsoft\Windows Workflow Foundation
370   C:\Program Files\Microsoft SQL Server\100\Shared
371   C:\Program Files\Internet Explorer\SIGNUP
372   C:\Program Files\Common Files\Microsoft Shared\ink\es-ES
373   C:\Program Files\Tanium\Tanium Server\Support
374   C:\Program Files\Microsoft SQL Server\110\DTS\Binn
375   C:\Program Files\Common Files\Microsoft Shared\MSInfo
376   C:\Program Files\Reference Assemblies
377   C:\Program Files\Microsoft SQL Server\110\Shared\RsFxInstall
378   C:\Program Files\Microsoft Help Viewer\v1.0\CatalogInfo
379   C:\Program Files\Microsoft SQL Server\110\DTS\MappingFiles
380   C:\Program Files\Microsoft SQL Server\110\DTS\PipelineComponents\Resources
381   C:\Program Files\Common Files\Microsoft Shared\WF\amd64
382   C:\Program Files\Tanium\Tanium Server\plugins\console\SigVerifier
383   C:\Program Files\Tanium\Tanium Server\plugins\console\DashboardGroups
384   C:\Program Files\Microsoft SQL Server\80\Tools
385   C:\Program Files\Microsoft SQL Server\MSSQL11.SQLEXPRESS\MSSQL\Template Data
386   C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-09-16-20-44-23\icons
387   C:\Program Files\Common Files\Microsoft Shared\ink\de-DE
388   C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\1031_DEU_LP\x64\1031
389   C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\1042_KOR_LP
390   C:\Program Files\Microsoft Visual Studio 10.0\Common7\IDE
391   C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\1033_ENU_LP\x64\1033\help
392   C:\Program Files\Common Files\Microsoft Shared\ink\fsdefinitions\main
393   C:\Program Files\Microsoft Help Viewer\v1.0\StopWords
394   C:\Program Files\Microsoft SQL Server\110\Tools\Binn\ManagementStudio\Extensions\Application
395   C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap
396   C:\Program Files\Microsoft SQL Server\MSSQL11.SQLEXPRESS\MSSQL\repldata
397   C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\x64\zh-CHT
398   C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\x64\zh-CHS
399   C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-09-16-20-44-23\manual\vhosts
400   C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\1042_KOR_LP\x64\1042\help
401   C:\Program Files\Microsoft SQL Server\110\DTS\Tasks\en
402   C:\Program Files\Common Files\SpeechEngines
403   C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-09-16-20-44-23\logs
404   C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-09-16-20-44-23\manual\mod
405   C:\Program Files\VMware\VMware Tools\Drivers\hgfs
406   C:\Program Files\Tanium\Tanium Server\Apache24\conf\original
407   C:\Program Files\Uninstall Information
408   C:\Program Files\Reference Assemblies\Microsoft\Framework\v3.5
409   C:\Program Files\Reference Assemblies\Microsoft\Framework\v3.0
410   C:\Program Files\Microsoft Visual Studio 10.0\Common7\IDE\Xml
411   C:\Program Files\Microsoft SQL Server\110\DTS\PipelineComponents
412   C:\Program Files\Microsoft SQL Server\90\Shared\Resources
413   C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\1046_PTB_LP\x64\1046\help
414   C:\Program Files\Tanium\Tanium Server\Apache24\include
415   C:\Program Files\Tanium\Tanium Server\plugins\console\GroupFiliters
416   C:\Program Files\VMware\VMware Tools\Drivers
417   C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\1041_JPN_LP\x64\1041\help
418   C:\Program Files\Tanium\Tanium Server\Downloads\tmp
419   C:\Program Files\Microsoft SQL Server\100\Setup Bootstrap\Release
420   C:\Program Files\Tanium\Tanium Server\Apache24\conf\original\extra
421   C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-11-17-11-17-33\manual\style\scripts
422   C:\Program Files\Common Files\Microsoft Shared\ink\sr-Latn-CS
```

```
423    C:\Program Files\Common Files\Microsoft Shared\ink\fsdefinitions\osknumpad
424    C:\Program Files\Microsoft SQL Server\110\License Terms
425    C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012
426    C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\1031_DEU_LP\x64
427    C:\Program Files\Common Files\VMware\Drivers\vmxnet
428    C:\Program Files\Tanium\Tanium Server\Strings
429    C:\Program Files\MSBuild
430    C:\Program Files\Microsoft SQL Server\110\COM\Resources
431    C:\Program Files\Common Files\VMware\Drivers\Virtual Printer\TPOGPS\amd64
432    C:\Program Files\Microsoft SQL Server\80\COM
433    C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-09-16-20-44-23\htdocs\console\history
434    C:\Program Files\Tanium\Tanium Server\Apache24\manual\howto
435    C:\Program Files\Microsoft SQL Server\110\Shared\Resources\1033
436    C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-09-16-20-44-23\conf\extra
437    C:\Program Files\Common Files\Microsoft Shared\MSEnv
438    C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\2052_CHS_LP\x64\2052
439    C:\Program Files\Common Files\VMware\Drivers\Virtual Printer
440    C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-11-17-11-17-33\htdocs\console\history
441    C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\1028_CHT_LP\x64\1028
442    C:\Program Files\Microsoft SQL Server\110\Shared\VS2008\1033
443    C:\Program Files\Common Files\Microsoft Shared\ink\pt-BR
444    C:\Program Files\Common Files\Microsoft Shared\ink\pt-PT
445    C:\Program Files\Common Files\System\ado
446    C:\Program Files\Microsoft SQL Server\110\KeyFile\1033
447    C:\Program Files\Tanium\Tanium Server\SOAPUpload
448    C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\Resources\2052
449    C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\Log\20140910_112604\resources
450    C:\Program Files\Microsoft SQL Server\MSSQL11.SQLEXPRESS\MSSQL\DATA
451    C:\Program Files\Tanium\Tanium Server\php55\extras\ssl
452    C:\Program Files\Common Files\Microsoft Shared\ink\el-GR
453    C:\Program Files\VMware\VMware Tools\win32
454    C:\Program Files\VMware\VMware Tools\win64
455    C:\Program Files\Microsoft SQL Server\110\Shared\Resources
456    C:\Program Files\Internet Explorer
457    C:\Program Files\Tanium\Tanium Server\Apache24\icons
458    C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\1033_ENU_LP\x64
459    C:\Program Files\Microsoft SQL Server\MSSQL11.SQLEXPRESS\MSSQL
460    C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\1031_DEU_LP
461    C:\Program Files\Tanium\Tanium Server\Apache24\manual\programs
462    C:\Program Files\Common Files\VMware\Drivers\vmxnet3
463    C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\1049_RUS_LP
464    C:\Program Files\VMware\VMware Tools\Drivers\hgfs\wow64
465    C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\Log
466    C:\Program Files\Microsoft SQL Server\90\License Terms\1033
467    C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-11-17-11-17-33\logs
468    C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-11-17-11-17-33\manual\faq
469    C:\Program Files\Tanium\Tanium Server\Suppot_patch1
470    C:\Program Files\Common Files\Microsoft Shared\ink\fsdefinitions\web
471    C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-11-17-11-17-33\cgi-bin
472    C:\Program Files\Tanium\Tanium Server\Apache24\manual\developer
473    C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\Resources\1036
474    C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\Resources\1033
475    C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\Resources\1031
476    C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\Resources\1028
477    C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\Resources\1049
478    C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\Resources\1046
479    C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\Resources\1042
480    C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\Resources\1041
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481  C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\Resources\1040
482  C:\Program Files\Microsoft SQL Server\100\Setup Bootstrap\Release\x64
483  C:\Program Files\Tanium\Tanium Server\Apache24\manual\style\latex
484  C:\Program Files\Tanium\Tanium Server
485  C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-09-16-20-44-23\htdocs\console
486  C:\Program Files\Tanium\Tanium Server\http
487  C:\Program Files\Common Files\Microsoft Shared\ink\ja-JP
488  C:\Program Files\Microsoft SQL Server\110\DTS\Packages
489  C:\Program Files\Common Files\Microsoft Shared\ink\sk-SK
490  C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-11-17-11-17-33\manual\style\css
491  C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-11-17-11-17-33\conf\original
492  C:\Program Files\Tanium\Tanium Server\Apache24\htdocs\php
493  C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-09-16-20-44-23\manual\howto
494  C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-09-16-20-44-23\manual\style\latex
495  C:\Program Files\Common Files\Microsoft Shared\ink\hr-HR
496  C:\Program Files\Common Files\VMware\Drivers
497  C:\Program Files\Tanium\Tanium Server\Apache24\lib
498  C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\Log\20140910_112532
499  C:\Program Files\Microsoft Help Viewer\v1.0
500  C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-11-17-11-17-33\conf\extra
501  C:\Program Files\Tanium\Tanium Server\Apache24
502  C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-09-16-20-44-23\manual\style\scripts
503  C:\Program Files\Common Files\Microsoft Shared\VGX
504  C:\Program Files\Microsoft SQL Server\110\DTS\ProviderDescriptors
505  C:\Program Files\Microsoft SQL Server\110\COM\en
506  C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-09-16-20-44-23\manual\faq
507  C:\Program Files\Tanium\Tanium Server\Apache24\manual\style\scripts
508  C:\Program Files\Common Files\Microsoft Shared\Triedit\en-US
509  C:\Program Files\Microsoft SQL Server\100\Setup Bootstrap\Release\x64\Help\1033
510  C:\Program Files\Microsoft SQL Server\110\COM
511  C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\1046_PTB_LP\x64
512  C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\Log\20140910_112831\Datastore_GlobalRules
513  C:\Program Files\Common Files\Microsoft Shared\TextConv\en-US
514  C:\Program Files\VMware\VMware Tools\plugins
515  C:\Program Files\Microsoft SQL Server\110\DTS
516  C:\Program Files\Tanium\Tanium Server\plugins\console\SavedQuestions
517  C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-11-17-11-17-33\error\include
518  C:\Program Files\Common Files\System\ado\en-US
519  C:\Program Files\Tanium\Tanium Server\Apache24\cgi-bin
520  C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\Log\20140910_112604
521  C:\Program Files\VMware\VMware Tools\plugins\vmusr
522  C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\Log\20140910_112831\Datastore
523  C:\Program Files\Microsoft SQL Server\MSSQL11.SQLEXPRESS\MSSQL\Binn\DllTmp64
524  C:\Program Files\Microsoft SQL Server\MSSQL11.SQLEXPRESS\MSSQL\Binn\DllTmp32
525  C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-09-16-20-44-23\manual\programs
526  C:\Program Files\Microsoft SQL Server\110\Tools\Binn\Resources
527  C:\Program Files\Tanium\Tanium Server\php55
528  C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-09-16-20-44-23\manual\style
529  C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\1040_ITA_LP\x64
530  C:\Program Files\Reference Assemblies\Microsoft
531  C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-09-16-20-44-23\include
532  C:\Program Files\Tanium\Tanium Server\Apache24\manual\images
533  C:\Program Files\Common Files\Microsoft Shared\ink\fsdefinitions
534  C:\Program Files\Microsoft SQL Server\110\SDK\Assemblies\en
535  C:\Program Files\Tanium\Tanium Server\Logs
536  C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-11-17-11-17-33\manual\mod
537  C:\Program Files\Common Files\VMware\Drivers\Virtual Printer\TPOG3
538  C:\Program Files\Microsoft SQL Server\110
```

```
539   C:\Program Files\Microsoft SQL Server\100
540   C:\Program Files\Tanium\Tanium Server\Apache24\modules
541   C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-11-17-11-17-33\manual\platform
542   C:\Program Files\Microsoft Visual Studio 10.0
543   C:\Program Files\Microsoft SQL Server\MSSQL11.SQLEXPRESS\MSSQL\Binn\Resources\3082
544   C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\Log\20140910_112831
545   C:\Program Files\VMware\VMware Tools\plugins\common
546   C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\Log\20140910_112804
547   C:\Program Files\Common Files\Microsoft Shared\ink\th-TH
548   C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-11-17-11-17-33\icons
549   C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\Log\20140910_112831\Datastore_ComponentUpd
550   C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-11-17-11-17-33\error
551   C:\Program Files\Microsoft SQL Server
552   C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-09-16-20-44-23\error
553   C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\3082_ESN_LP\x64
554   C:\Program Files\Common Files\Microsoft Shared\SQL Debugging
555   C:\Program Files\Tanium\Tanium Server\Apache24\error\include
556   C:\Program Files\Microsoft SQL Server\110\SDK\Assemblies
557   C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\x64\Patch
558   C:\Program Files\Microsoft Help Viewer\v1.0\en
559   C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\3082_ESN_LP\x64\3082\help
560   C:\Program Files\Microsoft SQL Server\90\Shared
561   C:\Program Files\Microsoft SQL Server\MSSQL11.SQLEXPRESS\MSSQL\Binn\Resources\2052
562   C:\Program Files\Microsoft SQL Server\MSSQL11.SQLEXPRESS\MSSQL\Binn\Resources\2070
563   C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-11-17-11-17-33\conf\original\extra
564   C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-11-17-11-17-33\manual\developer
565   C:\Program Files\Common Files\Microsoft Shared\ink\pl-PL
566   C:\Program Files\Common Files\SpeechEngines\Microsoft\TTS20\en-US\enu-dsk
567   C:\Program Files\Common Files\Microsoft Shared\Stationery
568   C:\Program Files\Common Files\Microsoft Shared\VS7Debug\1033
569   C:\Program Files\Microsoft SQL Server\100\Setup Bootstrap\Bin
570   C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\Resources
571   C:\Program Files\Microsoft SQL Server\110\Shared\ErrorDumps
572   C:\Program Files\Internet Explorer\en-US
573   C:\Program Files\VMware\VMware Tools\messages\it
574   C:\Program Files\VMware\VMware Tools\messages\ja
575   C:\Program Files\VMware\VMware Tools\messages\ko
576   C:\Program Files\VMware\VMware Tools\messages\de
577   C:\Program Files\VMware\VMware Tools\messages\es
578   C:\Program Files\VMware\VMware Tools\messages\fr
579   C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\1036_FRA_LP
580   C:\Program Files\Microsoft SQL Server\110\DTS\Tasks"
```

Export resultset csv sort list

Export a ResultSet from asking a question as CSV with Computer Name and IP Address for the header_sort

Example Python Code

```
1   # Path to lib directory which contains pytan package
2   PYTAN_LIB_PATH = '../lib'
3
4   # connection info for Tanium Server
5   USERNAME = "Tanium User"
6   PASSWORD = "T@n!um"
```

```
7    HOST = "172.16.31.128"
8    PORT = "444"
9
10   # Logging conrols
11   LOGLEVEL = 2
12   DEBUGFORMAT = False
13
14   import sys, tempfile
15   sys.path.append(PYTAN_LIB_PATH)
16
17   import pytan
18   handler = pytan.Handler(
19       username=USERNAME,
20       password=PASSWORD,
21       host=HOST,
22       port=PORT,
23       loglevel=LOGLEVEL,
24       debugformat=DEBUGFORMAT,
25   )
26
27   print handler
28
29   # setup the export_obj kwargs for later
30   export_kwargs = {}
31   export_kwargs["export_format"] = u'csv'
32   export_kwargs["header_sort"] = [u'Computer Name', u'IP Address']
33
34   # ask the question that will provide the resultset that we want to use
35   ask_kwargs = {
36       'qtype': 'manual_human',
37       'sensors': [
38           "Computer Name", "IP Route Details", "IP Address",
39           'Folder Name Search with RegEx Match{dirname=Program Files,regex=.*Shared.*}',
40       ],
41   }
42   response = handler.ask(**ask_kwargs)
43
44   # export the object to a string
45   # (we could just as easily export to a file using export_to_report_file)
46   export_kwargs['obj'] = response['question_results']
47   export_str = handler.export_obj(**export_kwargs)
48
49
50   print ""
51   print "print the export_str returned from export_obj():"
52   print export_str
```

Output from Python Code

```
1    Handler for Session to 172.16.31.128:444, Authenticated: True, Version: 6.2.314.3258
2    2014-12-07 01:20:16,137 INFO     question_progress: Results 0% (Get Computer Name and IP Route Detai
3    2014-12-07 01:20:21,159 INFO     question_progress: Results 0% (Get Computer Name and IP Route Detai
4    2014-12-07 01:20:26,186 INFO     question_progress: Results 0% (Get Computer Name and IP Route Detai
5    2014-12-07 01:20:31,214 INFO     question_progress: Results 0% (Get Computer Name and IP Route Detai
6    2014-12-07 01:20:36,239 INFO     question_progress: Results 0% (Get Computer Name and IP Route Detai
7    2014-12-07 01:20:41,268 INFO     question_progress: Results 0% (Get Computer Name and IP Route Detai
8    2014-12-07 01:20:46,299 INFO     question_progress: Results 0% (Get Computer Name and IP Route Detai
```

```
 9  2014-12-07 01:20:51,327 INFO      question_progress: Results 0% (Get Computer Name and IP Route Detai
10  2014-12-07 01:20:56,351 INFO      question_progress: Results 0% (Get Computer Name and IP Route Detai
11  2014-12-07 01:21:01,387 INFO      question_progress: Results 0% (Get Computer Name and IP Route Detai
12  2014-12-07 01:21:06,411 INFO      question_progress: Results 0% (Get Computer Name and IP Route Detai
13  2014-12-07 01:21:11,440 INFO      question_progress: Results 0% (Get Computer Name and IP Route Detai
14  2014-12-07 01:21:16,464 INFO      question_progress: Results 0% (Get Computer Name and IP Route Detai
15  2014-12-07 01:21:21,490 INFO      question_progress: Results 0% (Get Computer Name and IP Route Detai
16  2014-12-07 01:21:26,517 INFO      question_progress: Results 0% (Get Computer Name and IP Route Detai
17  2014-12-07 01:21:31,544 INFO      question_progress: Results 0% (Get Computer Name and IP Route Detai
18  2014-12-07 01:21:36,571 INFO      question_progress: Results 0% (Get Computer Name and IP Route Detai
19  2014-12-07 01:21:41,599 INFO      question_progress: Results 0% (Get Computer Name and IP Route Detai
20  2014-12-07 01:21:46,628 INFO      question_progress: Results 0% (Get Computer Name and IP Route Detai
21  2014-12-07 01:21:51,656 INFO      question_progress: Results 0% (Get Computer Name and IP Route Detai
22  2014-12-07 01:21:56,683 INFO      question_progress: Results 0% (Get Computer Name and IP Route Detai
23  2014-12-07 01:22:01,706 INFO      question_progress: Results 0% (Get Computer Name and IP Route Detai
24  2014-12-07 01:22:06,730 INFO      question_progress: Results 0% (Get Computer Name and IP Route Detai
25  2014-12-07 01:22:11,757 INFO      question_progress: Results 50% (Get Computer Name and IP Route Deta
26  2014-12-07 01:22:16,786 INFO      question_progress: Results 100% (Get Computer Name and IP Route Det
27
28  print the export_str returned from export_obj():
29  Computer Name,IP Address,Destination,Flags,"Folder Name Search with RegEx Match[No, Program Files, N
30  Casus-Belli.local,"fe80::e896:c1c9:d927:bbe0
31  2604:2000:69e6:1a00:82e6:50ff:fe1d:1dca
32  172.16.31.1
33  fe80::82e6:50ff:fe1d:1dca
34  172.16.152.1
35  192.168.0.3
36  fe80::2886:21ff:fe7f:3ef4
37  2604:2000:69e6:1a00:95ad:5fe5:cf9e:5403
38  fd1b:56a6:50eb:cd49:e896:c1c9:d927:bbe0","default
39  192.168.0
40  169.254
41  172.16.31/24
42  192.168.0.1/32
43  172.16.152/24
44  192.168.0.3/32","UGSc
45  UCS
46  UCS
47  UC
48  UCS
49  UC
50  UCS",Windows Only,"192.168.0.1
51  link#4
52  link#4
53  link#13
54  link#4
55  link#12
56  link#4","en0
57  en0
58  en0
59  vmnet8
60  en0
61  vmnet1
62  en0","None
63  None
64  None
65  None
66  None
```

```
 67  None
 68  None","None
 69  None
 70  None
 71  None
 72  None
 73  None
 74  None"
 75  jtanium1.localdomain,"172.16.31.128
 76  fe80::5968:4e9d:b4fc:88ef","172.16.31.128
 77  172.16.31.0
 78  127.0.0.1
 79  0.0.0.0
 80  127.0.0.0","-
 81  -
 82  -
 83  -
 84  -","C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-09-16-20-44-23\cgi-bin
 85  C:\Program Files\VMware\VMware Tools\plugins\vmsvc
 86  C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\1040_ITA_LP\x64\1040\help
 87  C:\Program Files\Common Files\Microsoft Shared\VS7Debug
 88  C:\Program Files\Tanium\Tanium Server\Apache24\manual\style
 89  C:\Program Files\Tanium\Tanium Server\Apache24\htdocs\console\history
 90  C:\Program Files\Common Files\VMware\Drivers\vmci\sockets\include
 91  C:\Program Files\Common Files\Microsoft Shared\ink\ar-SA
 92  C:\Program Files\Tanium\Tanium Server\plugins\console\Dashboards
 93  C:\Program Files\Tanium\Tanium Server\CertificateBackup2014-11-17-11-17-33
 94  C:\Program Files\Common Files\SpeechEngines\Microsoft
 95  C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-09-16-20-44-23\modules
 96  C:\Program Files\Common Files\Microsoft Shared\ink\ru-RU
 97  C:\Program Files\Microsoft SQL Server\110\DTS\ForEachEnumerators\en
 98  C:\Program Files\Tanium\Tanium Server\Apache24\htdocs\php\Auth
 99  C:\Program Files\MSBuild\Microsoft\Windows Workflow Foundation\v3.0
100  C:\Program Files\MSBuild\Microsoft\Windows Workflow Foundation\v3.5
101  C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\2052_CHS_LP\x64
102  C:\Program Files\Common Files\Microsoft Shared\ink\fsdefinitions\keypad
103  C:\Program Files\Tanium\Tanium Server\plugins\console\InstallPlugin
104  C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\Log\20140910_112831\resources
105  C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\Bin
106  C:\Program Files\Microsoft SQL Server\110\DTS\ForEachEnumerators
107  C:\Program Files\Tanium\Tanium Server\Apache24\conf
108  C:\Program Files\MSBuild\Microsoft
109  C:\Program Files\Microsoft SQL Server\110\DTS\UpgradeMappings
110  C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-11-17-11-17-33\htdocs\php\Auth
111  C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-09-16-20-44-23\manual\style\css
112  C:\Program Files\Common Files\Microsoft Shared\ink
113  C:\Program Files\Common Files\Microsoft Shared\ink\sv-SE
114  C:\Program Files\VMware\VMware Tools\messages
115  C:\Program Files\Microsoft SQL Server\110\DTS\ForEachEnumerators\Resources
116  C:\Program Files\Common Files\Microsoft Shared\ink\uk-UA
117  C:\Program Files\Microsoft SQL Server\110\DTS\Binn\Resources\1033
118  C:\Program Files\Tanium\Tanium Server\Apache24\manual\platform
119  C:\Program Files\Microsoft SQL Server\110\KeyFile
120  C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\Resources\3082
121  C:\Program Files\Tanium\Tanium Server\CertificateBackup2014-09-16-20-44-23
122  C:\Program Files\Microsoft SQL Server\100\Setup Bootstrap\Release\x64\1033
123  C:\Program Files\Microsoft.NET\ADOMD.NET
124  C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\1028_CHT_LP\x64\1028\help
```

```
125  C:\Program Files\Common Files\Microsoft Shared\ink\sl-SI
126  C:\Program Files\Tanium\Tanium Server\plugins\console\UserGroups
127  C:\Program Files\Common Files\Microsoft Shared\ink\hu-HU
128  C:\Program Files\Common Files\System\en-US
129  C:\Program Files\Common Files\Microsoft Shared\ink\zh-TW
130  C:\Program Files\Common Files\Microsoft Shared\ink\zh-CN
131  C:\Program Files\Common Files\VMware\Drivers\video_wddm
132  C:\Program Files\Common Files\Microsoft Shared\ink\fi-FI
133  C:\Program Files\Common Files\Microsoft Shared
134  C:\Program Files\Microsoft SQL Server\110\SDK\Include
135  C:\Program Files\Common Files\Microsoft Shared\ink\da-DK
136  C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-09-16-20-44-23\icons\small
137  C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-11-17-11-17-33
138  C:\Program Files\Microsoft Visual Studio 10.0\Common7\IDE\PrivateAssemblies
139  C:\Program Files\Microsoft SQL Server\80
140  C:\Program Files\Microsoft SQL Server\90
141  C:\Program Files\Windows Mail
142  C:\Program Files\Common Files\VMware\Drivers\vmci\sockets\bin\win64
143  C:\Program Files\Common Files\VMware\Drivers\vmci\sockets\bin\win32
144  C:\Program Files\Common Files\Microsoft Shared\ink\fsdefinitions\oskmenu
145  C:\Program Files\Microsoft SQL Server\110\DTS\LogProviders
146  C:\Program Files\Microsoft SQL Server\100\Setup Bootstrap\Release\Resources\1033
147  C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\1049_RUS_LP\x64\1049
148  C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\Log\20140910_112604\Datastore_GlobalRules
149  C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-09-16-20-44-23\manual\images
150  C:\Program Files\Microsoft SQL Server\110\SDK
151  C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\1036_FRA_LP\x64
152  C:\Program Files\Windows NT\Accessories
153  C:\Program Files\Tanium\Tanium Server\content_public_keys
154  C:\Program Files\Windows NT\TableTextService\en-US
155  C:\Program Files\Tanium\Tanium Server\plugins\console\Manifest
156  C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-09-16-20-44-23\bin
157  C:\Program Files\Tanium\Tanium Server\Apache24\logs
158  C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\1033_ENU_LP
159  C:\Program Files\Tanium\Tanium Server\plugins\content
160  C:\Program Files\Reference Assemblies\Microsoft\Framework
161  C:\Program Files\Microsoft SQL Server\110\DTS\Connections\en
162  C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-11-17-11-17-33\icons\small
163  C:\Program Files\Common Files\VMware\Drivers\Virtual Printer\TPOG3\amd64
164  C:\Program Files\Microsoft Visual Studio 10.0\Common7\IDE\PrivateAssemblies\1033
165  C:\Program Files\Common Files\Microsoft Shared\ink\ko-KR
166  C:\Program Files\Tanium\Tanium Server\Apache24\manual\ssl
167  C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\1042_KOR_LP\x64
168  C:\Program Files\Tanium\Tanium Server\Apache24\manual\style\css
169  C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-11-17-11-17-33\manual\misc
170  C:\Program Files\Microsoft SQL Server\110\SDK\Lib\x64
171  C:\Program Files\Microsoft SQL Server\110\SDK\Lib\x86
172  C:\Program Files\Tanium\Tanium Server\plugins\console\lib
173  C:\Program Files\Common Files\Microsoft Shared\ink\it-IT
174  C:\Program Files\Microsoft.NET
175  C:\Program Files\Microsoft SQL Server\110\DTS\DataDumps
176  C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-11-17-11-17-33\conf
177  C:\Program Files\Internet Explorer\images
178  C:\Program Files\Windows NT
179  C:\Program Files\Microsoft SQL Server\110\COM\Resources\1033
180  C:\Program Files\Microsoft SQL Server\MSSQL11.SQLEXPRESS\MSSQL\JOBS
181  C:\Program Files\Tanium\Tanium Server\Apache24\htdocs
182  C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\1041_JPN_LP
```

```
183  C:\Program Files\Tanium\Tanium Server\php55\extras
184  C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\1031_DEU_LP\x64\1031\help
185  C:\Program Files\Microsoft SQL Server\100\Setup Bootstrap
186  C:\Program Files\Common Files\SpeechEngines\Microsoft\TTS20
187  C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-09-16-20-44-23
188  C:\Program Files\Common Files\Microsoft Shared\Triedit
189  C:\Program Files\Microsoft.NET\ADOMD.NET\110
190  C:\Program Files\Microsoft SQL Server\110\Shared
191  C:\Program Files\Microsoft SQL Server\110\Tools\Binn
192  C:\Program Files\Microsoft Help Viewer
193  C:\Program Files\Microsoft SQL Server\100\Setup Bootstrap\Release\x64\Patch
194  C:\Program Files\Tanium\Tanium Server\Apache24\bin\iconv
195  C:\Program Files\Common Files\VMware\Drivers\memctl
196  C:\Program Files\Tanium\Tanium Server\plugins\console
197  C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-09-16-20-44-23\conf\original
198  C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-09-16-20-44-23\htdocs\php
199  C:\Program Files\Microsoft SQL Server\90\License Terms
200  C:\Program Files\Microsoft SQL Server\100\Setup Bootstrap\Release\Resources
201  C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\x64\pt
202  C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\x64\ru
203  C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-11-17-11-17-33\lib
204  C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\x64\it
205  C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\x64\ko
206  C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\x64\ja
207  C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\x64\es
208  C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\x64\de
209  C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\x64\fr
210  C:\Program Files\Common Files\Microsoft Shared\ink\he-IL
211  C:\Program Files\Common Files\Microsoft Shared\ink\ro-RO
212  C:\Program Files\Common Files\VMware\Drivers\pvscsi
213  C:\Program Files\Microsoft Visual Studio 10.0\Common7\Packages
214  C:\Program Files\Microsoft Visual Studio 10.0\Common7
215  C:\Program Files\Common Files\Services
216  C:\Program Files\Common Files\Microsoft Shared\ink\fsdefinitions\oskpred
217  C:\Program Files\Microsoft SQL Server\110\SDK\Lib
218  C:\Program Files\Microsoft SQL Server\110\DTS\PipelineComponents\Resources\1033
219  C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-09-16-20-44-23\manual\misc
220  C:\Program Files\Tanium\Tanium Server\Apache24\manual\misc
221  C:\Program Files\Common Files\SpeechEngines\Microsoft\TTS20\en-US
222  C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-11-17-11-17-33\modules
223  C:\Program Files\Microsoft SQL Server\110\DTS\Connections
224  C:\Program Files\Tanium\Tanium Server\Downloads\URLCache
225  C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\1046_PTB_LP
226  C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-09-16-20-44-23\manual\rewrite
227  C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-11-17-11-17-33\manual\images
228  C:\Program Files\Common Files\VMware\Drivers\vmci\device
229  C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-11-17-11-17-33\manual\rewrite
230  C:\Program Files\Common Files
231  C:\Program Files\Tanium\Tanium Server\Apache24\manual
232  C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-09-16-20-44-23\manual\platform
233  C:\Program Files\Tanium\Tanium Server\Apache24\conf\extra
234  C:\Program Files\Common Files\VMware\Drivers\vmci
235  C:\Program Files\Common Files\System\msadc\en-US
236  C:\Program Files\Common Files\System
237  C:\Program Files\Windows NT\Accessories\en-US
238  C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\1036_FRA_LP\x64\1036
239  C:\Program Files\Microsoft SQL Server\MSSQL11.SQLEXPRESS\MSSQL\Binn\Resources
240  C:\Program Files\Tanium\Tanium Server\plugins\console\RegistrySetting
```

```
241  C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\1046_PTB_LP\x64\1046
242  C:\Program Files\Tanium\Tanium Server\Apache24\manual\rewrite
243  C:\Program Files\VMware\VMware Tools
244  C:\Program Files\Common Files\Microsoft Shared\ink\fsdefinitions\numbers
245  C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\1049_RUS_LP\x64
246  C:\Program Files\Microsoft SQL Server\MSSQL11.SQLEXPRESS\MSSQL\Log
247  C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-09-16-20-44-23\lib
248  C:\Program Files\Windows NT\TableTextService
249  C:\Program Files\Microsoft SQL Server\MSSQL11.SQLEXPRESS\MSSQL\Binn\Resources\1055
250  C:\Program Files\Microsoft SQL Server\MSSQL11.SQLEXPRESS\MSSQL\Binn\Resources\1053
251  C:\Program Files\Microsoft SQL Server\MSSQL11.SQLEXPRESS\MSSQL\Binn\Resources\1049
252  C:\Program Files\Microsoft SQL Server\MSSQL11.SQLEXPRESS\MSSQL\Binn\Resources\1041
253  C:\Program Files\Microsoft SQL Server\MSSQL11.SQLEXPRESS\MSSQL\Binn\Resources\1040
254  C:\Program Files\Microsoft SQL Server\MSSQL11.SQLEXPRESS\MSSQL\Binn\Resources\1043
255  C:\Program Files\Microsoft SQL Server\MSSQL11.SQLEXPRESS\MSSQL\Binn\Resources\1042
256  C:\Program Files\Microsoft SQL Server\MSSQL11.SQLEXPRESS\MSSQL\Binn\Resources\1045
257  C:\Program Files\Microsoft SQL Server\MSSQL11.SQLEXPRESS\MSSQL\Binn\Resources\1044
258  C:\Program Files\Microsoft SQL Server\MSSQL11.SQLEXPRESS\MSSQL\Binn\Resources\1046
259  C:\Program Files\Microsoft SQL Server\MSSQL11.SQLEXPRESS\MSSQL\Binn\Resources\1038
260  C:\Program Files\Microsoft SQL Server\MSSQL11.SQLEXPRESS\MSSQL\Binn\Resources\1035
261  C:\Program Files\Microsoft SQL Server\MSSQL11.SQLEXPRESS\MSSQL\Binn\Resources\1036
262  C:\Program Files\Microsoft SQL Server\MSSQL11.SQLEXPRESS\MSSQL\Binn\Resources\1030
263  C:\Program Files\Microsoft SQL Server\MSSQL11.SQLEXPRESS\MSSQL\Binn\Resources\1031
264  C:\Program Files\Microsoft SQL Server\MSSQL11.SQLEXPRESS\MSSQL\Binn\Resources\1032
265  C:\Program Files\Microsoft SQL Server\MSSQL11.SQLEXPRESS\MSSQL\Binn\Resources\1033
266  C:\Program Files\Microsoft SQL Server\MSSQL11.SQLEXPRESS\MSSQL\Binn\Resources\1029
267  C:\Program Files\Microsoft SQL Server\MSSQL11.SQLEXPRESS\MSSQL\Binn\Resources\1028
268  C:\Program Files\Tanium\Tanium Server\Apache24\htdocs\console
269  C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\1042_KOR_LP\x64\1042
270  C:\Program Files\Tanium\Tanium Server\Apache24\error
271  C:\Program Files\Common Files\Microsoft Shared\ink\nb-NO
272  C:\Program Files\Tanium\Tanium Server\Apache24\manual\mod
273  C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\1041_JPN_LP\x64
274  C:\Program Files\Common Files\Microsoft Shared\ink\lv-LV
275  C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-09-16-20-44-23\manual
276  C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\1033_ENU_LP\x64\1033
277  C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-09-16-20-44-23\conf\original\extra
278  C:\Program Files\Common Files\Microsoft Shared\ink\fsdefinitions\auxpad
279  C:\Program Files\Common Files\Microsoft Shared\TextConv
280  C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-09-16-20-44-23\manual\developer
281  C:\Program Files\Common Files\Microsoft Shared\MSInfo\en-US
282  C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\3082_ESN_LP\x64\3082
283  C:\Program Files\Common Files\Microsoft Shared\ink\nl-NL
284  C:\Program Files\Tanium
285  C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-11-17-11-17-33\manual\howto
286  C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-11-17-11-17-33\include
287  C:\Program Files\Reference Assemblies\Microsoft\Framework\v3.5\RedistList
288  C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\Log\20140910_112532\Datastore_LandingPage
289  C:\Program Files\Microsoft SQL Server\100\KeyFile\1033
290  C:\Program Files\Microsoft SQL Server\110\Tools\Binn\Resources\1033
291  C:\Program Files\Tanium\Tanium Server\Downloads\Cache
292  C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-11-17-11-17-33\manual\style\latex
293  C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\3082_ESN_LP
294  C:\Program Files\Tanium\Tanium Server\php55\dev
295  C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-11-17-11-17-33\bin\iconv
296  C:\Program Files\VMware\VMware Tools\messages\zh_CN
297  C:\Program Files\Tanium\Tanium Server\Apache24\manual\vhosts
298  C:\Program Files\Common Files\VMware\Drivers\vmci\sockets
```

```
299   C:\Program Files\Microsoft SQL Server\90\Shared\Resources\1033
300   C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-09-16-20-44-23\conf
301   C:\Program Files\Common Files\VMware
302   C:\Program Files\Common Files\System\msadc
303   C:\Program Files\Microsoft SQL Server\110\Tools
304   C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-11-17-11-17-33\htdocs\php
305   C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\1040_ITA_LP
306   C:\Program Files\Common Files\Microsoft Shared\ink\fr-FR
307   C:\Program Files\Common Files\VMware\Drivers\vss
308   C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-11-17-11-17-33\bin
309   C:\Program Files\Common Files\Microsoft Shared\ink\tr-TR
310   C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-11-17-11-17-33\manual\programs
311   C:\Program Files\Common Files\Microsoft Shared\VC
312   C:\Program Files\Tanium\Tanium Server\php55\ext
313   C:\Program Files\Common Files\Microsoft Shared\WF
314   C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-09-16-20-44-23\manual\ssl
315   C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-11-17-11-17-33\htdocs
316   C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-11-17-11-17-33\htdocs\console
317   C:\Program Files\Microsoft SQL Server\MSSQL11.SQLEXPRESS\MSSQL\Binn\Templates
318   C:\Program Files\Tanium\Tanium Server\plugins
319   C:\Program Files\Tanium\Tanium Server\Apache24\icons\small
320   C:\Program Files\Microsoft SQL Server\110\Shared\en
321   C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-09-16-20-44-23\htdocs\php\Auth
322   C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-09-16-20-44-23\error\include
323   C:\Program Files\Microsoft SQL Server\100\Setup Bootstrap\Release\x64\Help
324   C:\Program Files\Microsoft Help Viewer\v1.0\Microsoft Help Viewer 1.1
325   C:\Program Files\Microsoft SQL Server\110\Tools\Binn\ManagementStudio
326   C:\Program Files\Common Files\Microsoft Shared\ink\fsdefinitions\symbols
327   C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\1036_FRA_LP\x64\1036\help
328   C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-11-17-11-17-33\manual
329   C:\Program Files\Common Files\System\Ole DB\en-US
330   C:\Program Files\Microsoft SQL Server\110\Tools\Binn\ManagementStudio\Extensions
331   C:\Program Files\Microsoft SQL Server\80\Tools\Binn
332   C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\2052_CHS_LP
333   C:\Program Files\Common Files\Microsoft Shared\ink\lt-LT
334   C:\Program Files\Microsoft SQL Server\MSSQL11.SQLEXPRESS\MSSQL\Binn
335   C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\x64
336   C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-09-16-20-44-23\htdocs
337   C:\Program Files\Microsoft SQL Server\100\KeyFile
338   C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-11-17-11-17-33\manual\style
339   C:\Program Files\Microsoft SQL Server\MSSQL11.SQLEXPRESS\MSSQL\Install
340   C:\Program Files\Common Files\Microsoft Shared\ink\et-EE
341   C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\1028_CHT_LP
342   C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\1040_ITA_LP\x64\1040
343   C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\1028_CHT_LP\x64
344   C:\Program Files\Common Files\VMware\Drivers\Virtual Printer\TPOGPS
345   C:\Program Files\Common Files\Microsoft Shared\ink\cs-CZ
346   C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\2052_CHS_LP\x64\2052\help
347   C:\Program Files\VMware
348   C:\Program Files\Microsoft SQL Server\110\Shared\VS2008
349   C:\Program Files\Microsoft Visual Studio 10.0\Common7\Packages\Debugger
350   C:\Program Files\Common Files\VMware\Drivers\mouse
351   C:\Program Files\Common Files\VMware\Drivers\vmci\sockets\bin
352   C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-09-16-20-44-23\bin\iconv
353   C:\Program Files\Common Files\Microsoft Shared\ink\en-US
354   C:\Program Files\Microsoft SQL Server\MSSQL11.SQLEXPRESS\MSSQL\Backup
355   C:\Program Files\Tanium\Tanium Server\VB
356   C:\Program Files\Microsoft SQL Server\110\DTS\ForEachEnumerators\Resources\1033
```

```
357  C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-11-17-11-17-33\manual\vhosts
358  C:\Program Files\Common Files\Microsoft Shared\ink\bg-BG
359  C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-11-17-11-17-33\manual\ssl
360  C:\Program Files\Tanium\Tanium Server\Apache24\bin
361  C:\Program Files\Common Files\System\Ole DB
362  C:\Program Files\Tanium\Tanium Server\Apache24\manual\faq
363  C:\Program Files\Microsoft SQL Server\MSSQL11.SQLEXPRESS
364  C:\Program Files\Common Files\VMware\Drivers\audio
365  C:\Program Files\Microsoft SQL Server\110\DTS\Binn\Resources
366  C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\1041_JPN_LP\x64\1041
367  C:\Program Files\Reference Assemblies\Microsoft\Framework\v3.0\RedistList
368  C:\Program Files\Tanium\Tanium Server\Downloads
369  C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\1049_RUS_LP\x64\1049\help
370  C:\Program Files\Microsoft Visual Studio 10.0\Common7\Packages\Debugger\x86
371  C:\Program Files\Microsoft Visual Studio 10.0\Common7\Packages\Debugger\X64
372  C:\Program Files\MSBuild\Microsoft\Windows Workflow Foundation
373  C:\Program Files\Microsoft SQL Server\100\Shared
374  C:\Program Files\Internet Explorer\SIGNUP
375  C:\Program Files\Common Files\Microsoft Shared\ink\es-ES
376  C:\Program Files\Tanium\Tanium Server\Support
377  C:\Program Files\Microsoft SQL Server\110\DTS\Binn
378  C:\Program Files\Common Files\Microsoft Shared\MSInfo
379  C:\Program Files\Reference Assemblies
380  C:\Program Files\Microsoft SQL Server\110\Shared\RsFxInstall
381  C:\Program Files\Microsoft Help Viewer\v1.0\CatalogInfo
382  C:\Program Files\Microsoft SQL Server\110\DTS\MappingFiles
383  C:\Program Files\Microsoft SQL Server\110\DTS\PipelineComponents\Resources
384  C:\Program Files\Common Files\Microsoft Shared\WF\amd64
385  C:\Program Files\Tanium\Tanium Server\plugins\console\SigVerifier
386  C:\Program Files\Tanium\Tanium Server\plugins\console\DashboardGroups
387  C:\Program Files\Microsoft SQL Server\80\Tools
388  C:\Program Files\Microsoft SQL Server\MSSQL11.SQLEXPRESS\MSSQL\Template Data
389  C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-09-16-20-44-23\icons
390  C:\Program Files\Common Files\Microsoft Shared\ink\de-DE
391  C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\1031_DEU_LP\x64\1031
392  C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\1042_KOR_LP
393  C:\Program Files\Microsoft Visual Studio 10.0\Common7\IDE
394  C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\1033_ENU_LP\x64\1033\help
395  C:\Program Files\Common Files\Microsoft Shared\ink\fsdefinitions\main
396  C:\Program Files\Microsoft Help Viewer\v1.0\StopWords
397  C:\Program Files\Microsoft SQL Server\110\Tools\Binn\ManagementStudio\Extensions\Application
398  C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap
399  C:\Program Files\Microsoft SQL Server\MSSQL11.SQLEXPRESS\MSSQL\repldata
400  C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\x64\zh-CHT
401  C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\x64\zh-CHS
402  C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-09-16-20-44-23\manual\vhosts
403  C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\1042_KOR_LP\x64\1042\help
404  C:\Program Files\Microsoft SQL Server\110\DTS\Tasks\en
405  C:\Program Files\Common Files\SpeechEngines
406  C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-09-16-20-44-23\logs
407  C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-09-16-20-44-23\manual\mod
408  C:\Program Files\VMware\VMware Tools\Drivers\hgfs
409  C:\Program Files\Tanium\Tanium Server\Apache24\conf\original
410  C:\Program Files\Uninstall Information
411  C:\Program Files\Reference Assemblies\Microsoft\Framework\v3.5
412  C:\Program Files\Reference Assemblies\Microsoft\Framework\v3.0
413  C:\Program Files\Microsoft Visual Studio 10.0\Common7\IDE\Xml
414  C:\Program Files\Microsoft SQL Server\110\DTS\PipelineComponents
```

```
415  C:\Program Files\Microsoft SQL Server\90\Shared\Resources
416  C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\1046_PTB_LP\x64\1046\help
417  C:\Program Files\Tanium\Tanium Server\Apache24\include
418  C:\Program Files\Tanium\Tanium Server\plugins\console\GroupFiliters
419  C:\Program Files\VMware\VMware Tools\Drivers
420  C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\1041_JPN_LP\x64\1041\help
421  C:\Program Files\Tanium\Tanium Server\Downloads\tmp
422  C:\Program Files\Microsoft SQL Server\100\Setup Bootstrap\Release
423  C:\Program Files\Tanium\Tanium Server\Apache24\conf\original\extra
424  C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-11-17-11-17-33\manual\style\scripts
425  C:\Program Files\Common Files\Microsoft Shared\ink\sr-Latn-CS
426  C:\Program Files\Common Files\Microsoft Shared\ink\fsdefinitions\osknumpad
427  C:\Program Files\Microsoft SQL Server\110\License Terms
428  C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012
429  C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\1031_DEU_LP\x64
430  C:\Program Files\Common Files\VMware\Drivers\vmxnet
431  C:\Program Files\Tanium\Tanium Server\Strings
432  C:\Program Files\MSBuild
433  C:\Program Files\Microsoft SQL Server\110\COM\Resources
434  C:\Program Files\Common Files\VMware\Drivers\Virtual Printer\TPOGPS\amd64
435  C:\Program Files\Microsoft SQL Server\80\COM
436  C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-09-16-20-44-23\htdocs\console\history
437  C:\Program Files\Tanium\Tanium Server\Apache24\manual\howto
438  C:\Program Files\Microsoft SQL Server\110\Shared\Resources\1033
439  C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-09-16-20-44-23\conf\extra
440  C:\Program Files\Common Files\Microsoft Shared\MSEnv
441  C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\2052_CHS_LP\x64\2052
442  C:\Program Files\Common Files\VMware\Drivers\Virtual Printer
443  C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-11-17-11-17-33\htdocs\console\history
444  C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\1028_CHT_LP\x64\1028
445  C:\Program Files\Microsoft SQL Server\110\Shared\VS2008\1033
446  C:\Program Files\Common Files\Microsoft Shared\ink\pt-BR
447  C:\Program Files\Common Files\Microsoft Shared\ink\pt-PT
448  C:\Program Files\Common Files\System\ado
449  C:\Program Files\Microsoft SQL Server\110\KeyFile\1033
450  C:\Program Files\Tanium\Tanium Server\SOAPUpload
451  C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\Resources\2052
452  C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\Log\20140910_112604\resources
453  C:\Program Files\Microsoft SQL Server\MSSQL11.SQLEXPRESS\MSSQL\DATA
454  C:\Program Files\Tanium\Tanium Server\php55\extras\ssl
455  C:\Program Files\Common Files\Microsoft Shared\ink\el-GR
456  C:\Program Files\VMware\VMware Tools\win32
457  C:\Program Files\VMware\VMware Tools\win64
458  C:\Program Files\Microsoft SQL Server\110\Shared\Resources
459  C:\Program Files\Internet Explorer
460  C:\Program Files\Tanium\Tanium Server\Apache24\icons
461  C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\1033_ENU_LP\x64
462  C:\Program Files\Microsoft SQL Server\MSSQL11.SQLEXPRESS\MSSQL
463  C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\1031_DEU_LP
464  C:\Program Files\Tanium\Tanium Server\Apache24\manual\programs
465  C:\Program Files\Common Files\VMware\Drivers\vmxnet3
466  C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\1049_RUS_LP
467  C:\Program Files\VMware\VMware Tools\Drivers\hgfs\wow64
468  C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\Log
469  C:\Program Files\Microsoft SQL Server\90\License Terms\1033
470  C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-11-17-11-17-33\logs
471  C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-11-17-11-17-33\manual\faq
472  C:\Program Files\Tanium\Tanium Server\Suppot_patch1
```

```
473  C:\Program Files\Common Files\Microsoft Shared\ink\fsdefinitions\web
474  C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-11-17-11-17-33\cgi-bin
475  C:\Program Files\Tanium\Tanium Server\Apache24\manual\developer
476  C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\Resources\1036
477  C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\Resources\1033
478  C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\Resources\1031
479  C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\Resources\1028
480  C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\Resources\1049
481  C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\Resources\1046
482  C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\Resources\1042
483  C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\Resources\1041
484  C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\Resources\1040
485  C:\Program Files\Microsoft SQL Server\100\Setup Bootstrap\Release\x64
486  C:\Program Files\Tanium\Tanium Server\Apache24\manual\style\latex
487  C:\Program Files\Tanium\Tanium Server
488  C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-09-16-20-44-23\htdocs\console
489  C:\Program Files\Tanium\Tanium Server\http
490  C:\Program Files\Common Files\Microsoft Shared\ink\ja-JP
491  C:\Program Files\Microsoft SQL Server\110\DTS\Packages
492  C:\Program Files\Common Files\Microsoft Shared\ink\sk-SK
493  C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-11-17-11-17-33\manual\style\css
494  C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-11-17-11-17-33\conf\original
495  C:\Program Files\Tanium\Tanium Server\Apache24\htdocs\php
496  C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-09-16-20-44-23\manual\howto
497  C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-09-16-20-44-23\manual\style\latex
498  C:\Program Files\Common Files\Microsoft Shared\ink\hr-HR
499  C:\Program Files\Common Files\VMware\Drivers
500  C:\Program Files\Tanium\Tanium Server\Apache24\lib
501  C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\Log\20140910_112532
502  C:\Program Files\Microsoft Help Viewer\v1.0
503  C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-11-17-11-17-33\conf\extra
504  C:\Program Files\Tanium\Tanium Server\Apache24
505  C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-09-16-20-44-23\manual\style\scripts
506  C:\Program Files\Common Files\Microsoft Shared\VGX
507  C:\Program Files\Microsoft SQL Server\110\DTS\ProviderDescriptors
508  C:\Program Files\Microsoft SQL Server\110\COM\en
509  C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-09-16-20-44-23\manual\faq
510  C:\Program Files\Tanium\Tanium Server\Apache24\manual\style\scripts
511  C:\Program Files\Common Files\Microsoft Shared\Triedit\en-US
512  C:\Program Files\Microsoft SQL Server\100\Setup Bootstrap\Release\x64\Help\1033
513  C:\Program Files\Microsoft SQL Server\110\COM
514  C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\1046_PTB_LP\x64
515  C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\Log\20140910_112831\Datastore_GlobalRules
516  C:\Program Files\Common Files\Microsoft Shared\TextConv\en-US
517  C:\Program Files\VMware\VMware Tools\plugins
518  C:\Program Files\Microsoft SQL Server\110\DTS
519  C:\Program Files\Tanium\Tanium Server\plugins\console\SavedQuestions
520  C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-11-17-11-17-33\error\include
521  C:\Program Files\Common Files\System\ado\en-US
522  C:\Program Files\Tanium\Tanium Server\Apache24\cgi-bin
523  C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\Log\20140910_112604
524  C:\Program Files\VMware\VMware Tools\plugins\vmusr
525  C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\Log\20140910_112831\Datastore
526  C:\Program Files\Microsoft SQL Server\MSSQL11.SQLEXPRESS\MSSQL\Binn\DllTmp64
527  C:\Program Files\Microsoft SQL Server\MSSQL11.SQLEXPRESS\MSSQL\Binn\DllTmp32
528  C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-09-16-20-44-23\manual\programs
529  C:\Program Files\Microsoft SQL Server\110\Tools\Binn\Resources
530  C:\Program Files\Tanium\Tanium Server\php55
```

```
531   C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-09-16-20-44-23\manual\style
532   C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\1040_ITA_LP\x64
533   C:\Program Files\Reference Assemblies\Microsoft
534   C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-09-16-20-44-23\include
535   C:\Program Files\Tanium\Tanium Server\Apache24\manual\images
536   C:\Program Files\Common Files\Microsoft Shared\ink\fsdefinitions
537   C:\Program Files\Microsoft SQL Server\110\SDK\Assemblies\en
538   C:\Program Files\Tanium\Tanium Server\Logs
539   C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-11-17-11-17-33\manual\mod
540   C:\Program Files\Common Files\VMware\Drivers\Virtual Printer\TPOG3
541   C:\Program Files\Microsoft SQL Server\110
542   C:\Program Files\Microsoft SQL Server\100
543   C:\Program Files\Tanium\Tanium Server\Apache24\modules
544   C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-11-17-11-17-33\manual\platform
545   C:\Program Files\Microsoft Visual Studio 10.0
546   C:\Program Files\Microsoft SQL Server\MSSQL11.SQLEXPRESS\MSSQL\Binn\Resources\3082
547   C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\Log\20140910_112831
548   C:\Program Files\VMware\VMware Tools\plugins\common
549   C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\Log\20140910_112804
550   C:\Program Files\Common Files\Microsoft Shared\ink\th-TH
551   C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-11-17-11-17-33\icons
552   C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\Log\20140910_112831\Datastore_ComponentUpd
553   C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-11-17-11-17-33\error
554   C:\Program Files\Microsoft SQL Server
555   C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-09-16-20-44-23\error
556   C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\3082_ESN_LP\x64
557   C:\Program Files\Common Files\Microsoft Shared\SQL Debugging
558   C:\Program Files\Tanium\Tanium Server\Apache24\error\include
559   C:\Program Files\Microsoft SQL Server\110\SDK\Assemblies
560   C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\x64\Patch
561   C:\Program Files\Microsoft Help Viewer\v1.0\en
562   C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\3082_ESN_LP\x64\3082\help
563   C:\Program Files\Microsoft SQL Server\90\Shared
564   C:\Program Files\Microsoft SQL Server\MSSQL11.SQLEXPRESS\MSSQL\Binn\Resources\2052
565   C:\Program Files\Microsoft SQL Server\MSSQL11.SQLEXPRESS\MSSQL\Binn\Resources\2070
566   C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-11-17-11-17-33\conf\original\extra
567   C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-11-17-11-17-33\manual\developer
568   C:\Program Files\Common Files\Microsoft Shared\ink\pl-PL
569   C:\Program Files\Common Files\SpeechEngines\Microsoft\TTS20\en-US\enu-dsk
570   C:\Program Files\Common Files\Microsoft Shared\Stationery
571   C:\Program Files\Common Files\Microsoft Shared\VS7Debug\1033
572   C:\Program Files\Microsoft SQL Server\100\Setup Bootstrap\Bin
573   C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\Resources
574   C:\Program Files\Microsoft SQL Server\110\Shared\ErrorDumps
575   C:\Program Files\Internet Explorer\en-US
576   C:\Program Files\VMware\VMware Tools\messages\it
577   C:\Program Files\VMware\VMware Tools\messages\ja
578   C:\Program Files\VMware\VMware Tools\messages\ko
579   C:\Program Files\VMware\VMware Tools\messages\de
580   C:\Program Files\VMware\VMware Tools\messages\es
581   C:\Program Files\VMware\VMware Tools\messages\fr
582   C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\1036_FRA_LP
583   C:\Program Files\Microsoft SQL Server\110\DTS\Tasks","0.0.0.0
584   0.0.0.0
585   0.0.0.0
586   172.16.31.2
587   0.0.0.0","-
588   -
```

```
589  |  -
590  |  -
591  |  -","255.255.255.255
592  |  255.255.255.0
593  |  255.255.255.255
594  |  0.0.0.0
595  |  255.0.0.0","266
596  |  266
597  |  306
598  |  266
599  |  306"
```

Export resultset csv type false

Export a ResultSet from asking a question as CSV with false for header_add_type

Example Python Code

```python
1   # Path to lib directory which contains pytan package
2   PYTAN_LIB_PATH = '../lib'
3
4   # connection info for Tanium Server
5   USERNAME = "Tanium User"
6   PASSWORD = "T@n!um"
7   HOST = "172.16.31.128"
8   PORT = "444"
9
10  # Logging conrols
11  LOGLEVEL = 2
12  DEBUGFORMAT = False
13
14  import sys, tempfile
15  sys.path.append(PYTAN_LIB_PATH)
16
17  import pytan
18  handler = pytan.Handler(
19      username=USERNAME,
20      password=PASSWORD,
21      host=HOST,
22      port=PORT,
23      loglevel=LOGLEVEL,
24      debugformat=DEBUGFORMAT,
25  )
26
27  print handler
28
29  # setup the export_obj kwargs for later
30  export_kwargs = {}
31  export_kwargs["export_format"] = u'csv'
32  export_kwargs["header_add_type"] = False
33
34  # ask the question that will provide the resultset that we want to use
35  ask_kwargs = {
36      'qtype': 'manual_human',
37      'sensors': [
```

```
38          "Computer Name", "IP Route Details", "IP Address",
39          'Folder Name Search with RegEx Match{dirname=Program Files,regex=.*Shared.*}',
40      ],
41  }
42  response = handler.ask(**ask_kwargs)
43
44  # export the object to a string
45  # (we could just as easily export to a file using export_to_report_file)
46  export_kwargs['obj'] = response['question_results']
47  export_str = handler.export_obj(**export_kwargs)
48
49
50  print ""
51  print "print the export_str returned from export_obj():"
52  print export_str
```

Output from Python Code

```
1   Handler for Session to 172.16.31.128:444, Authenticated: True, Version: 6.2.314.3258
2   2014-12-07 01:22:16,981 INFO     question_progress: Results 0% (Get Computer Name and IP Route Detai
3   2014-12-07 01:22:22,008 INFO     question_progress: Results 0% (Get Computer Name and IP Route Detai
4   2014-12-07 01:22:27,037 INFO     question_progress: Results 0% (Get Computer Name and IP Route Detai
5   2014-12-07 01:22:32,062 INFO     question_progress: Results 0% (Get Computer Name and IP Route Detai
6   2014-12-07 01:22:37,090 INFO     question_progress: Results 100% (Get Computer Name and IP Route Det
7
8   print the export_str returned from export_obj():
9   Computer Name,Destination,Flags,"Folder Name Search with RegEx Match[No, Program Files, No, ]",Gatew
10  Casus-Belli.local,"default
11  192.168.0
12  169.254
13  172.16.31/24
14  192.168.0.1/32
15  172.16.152/24
16  192.168.0.3/32","UGSc
17  UCS
18  UCS
19  UC
20  UCS
21  UC
22  UCS",Windows Only,"192.168.0.1
23  link#4
24  link#4
25  link#13
26  link#4
27  link#12
28  link#4","fe80::e896:c1c9:d927:bbe0
29  2604:2000:69e6:1a00:82e6:50ff:fe1d:1dca
30  172.16.31.1
31  fe80::82e6:50ff:fe1d:1dca
32  172.16.152.1
33  192.168.0.3
34  fe80::2886:21ff:fe7f:3ef4
35  2604:2000:69e6:1a00:95ad:5fe5:cf9e:5403
36  fd1b:56a6:50eb:cd49:e896:c1c9:d927:bbe0","en0
37  en0
38  en0
39  vmnet8
```

```
40   en0
41   vmnet1
42   en0","None
43   None
44   None
45   None
46   None
47   None
48   None","None
49   None
50   None
51   None
52   None
53   None
54   None"
55   jtanium1.localdomain,"172.16.31.128
56   172.16.31.0
57   127.0.0.1
58   0.0.0.0
59   127.0.0.0","-
60   -
61   -
62   -
63   -","C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-09-16-20-44-23\cgi-bin
64   C:\Program Files\VMware\VMware Tools\plugins\vmsvc
65   C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\1040_ITA_LP\x64\1040\help
66   C:\Program Files\Common Files\Microsoft Shared\VS7Debug
67   C:\Program Files\Tanium\Tanium Server\Apache24\manual\style
68   C:\Program Files\Tanium\Tanium Server\Apache24\htdocs\console\history
69   C:\Program Files\Common Files\VMware\Drivers\vmci\sockets\include
70   C:\Program Files\Common Files\Microsoft Shared\ink\ar-SA
71   C:\Program Files\Tanium\Tanium Server\plugins\console\Dashboards
72   C:\Program Files\Tanium\Tanium Server\CertificateBackup2014-11-17-11-17-33
73   C:\Program Files\Common Files\SpeechEngines\Microsoft
74   C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-09-16-20-44-23\modules
75   C:\Program Files\Common Files\Microsoft Shared\ink\ru-RU
76   C:\Program Files\Microsoft SQL Server\110\DTS\ForEachEnumerators\en
77   C:\Program Files\Tanium\Tanium Server\Apache24\htdocs\php\Auth
78   C:\Program Files\MSBuild\Microsoft\Windows Workflow Foundation\v3.0
79   C:\Program Files\MSBuild\Microsoft\Windows Workflow Foundation\v3.5
80   C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\2052_CHS_LP\x64
81   C:\Program Files\Common Files\Microsoft Shared\ink\fsdefinitions\keypad
82   C:\Program Files\Tanium\Tanium Server\plugins\console\InstallPlugin
83   C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\Log\20140910_112831\resources
84   C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\Bin
85   C:\Program Files\Microsoft SQL Server\110\DTS\ForEachEnumerators
86   C:\Program Files\Tanium\Tanium Server\Apache24\conf
87   C:\Program Files\MSBuild\Microsoft
88   C:\Program Files\Microsoft SQL Server\110\DTS\UpgradeMappings
89   C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-11-17-11-17-33\htdocs\php\Auth
90   C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-09-16-20-44-23\manual\style\css
91   C:\Program Files\Common Files\Microsoft Shared\ink
92   C:\Program Files\Common Files\Microsoft Shared\ink\sv-SE
93   C:\Program Files\VMware\VMware Tools\messages
94   C:\Program Files\Microsoft SQL Server\110\DTS\ForEachEnumerators\Resources
95   C:\Program Files\Common Files\Microsoft Shared\ink\uk-UA
96   C:\Program Files\Microsoft SQL Server\110\DTS\Binn\Resources\1033
97   C:\Program Files\Tanium\Tanium Server\Apache24\manual\platform
```

```
 98   C:\Program Files\Microsoft SQL Server\110\KeyFile
 99   C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\Resources\3082
100   C:\Program Files\Tanium\Tanium Server\CertificateBackup2014-09-16-20-44-23
101   C:\Program Files\Microsoft SQL Server\100\Setup Bootstrap\Release\x64\1033
102   C:\Program Files\Microsoft.NET\ADOMD.NET
103   C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\1028_CHT_LP\x64\1028\help
104   C:\Program Files\Common Files\Microsoft Shared\ink\sl-SI
105   C:\Program Files\Tanium\Tanium Server\plugins\console\UserGroups
106   C:\Program Files\Common Files\Microsoft Shared\ink\hu-HU
107   C:\Program Files\Common Files\System\en-US
108   C:\Program Files\Common Files\Microsoft Shared\ink\zh-TW
109   C:\Program Files\Common Files\Microsoft Shared\ink\zh-CN
110   C:\Program Files\Common Files\VMware\Drivers\video_wddm
111   C:\Program Files\Common Files\Microsoft Shared\ink\fi-FI
112   C:\Program Files\Common Files\Microsoft Shared
113   C:\Program Files\Microsoft SQL Server\110\SDK\Include
114   C:\Program Files\Common Files\Microsoft Shared\ink\da-DK
115   C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-09-16-20-44-23\icons\small
116   C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-11-17-11-17-33
117   C:\Program Files\Microsoft Visual Studio 10.0\Common7\IDE\PrivateAssemblies
118   C:\Program Files\Microsoft SQL Server\80
119   C:\Program Files\Microsoft SQL Server\90
120   C:\Program Files\Windows Mail
121   C:\Program Files\Common Files\VMware\Drivers\vmci\sockets\bin\win64
122   C:\Program Files\Common Files\VMware\Drivers\vmci\sockets\bin\win32
123   C:\Program Files\Common Files\Microsoft Shared\ink\fsdefinitions\oskmenu
124   C:\Program Files\Microsoft SQL Server\110\DTS\LogProviders
125   C:\Program Files\Microsoft SQL Server\100\Setup Bootstrap\Release\Resources\1033
126   C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\1049_RUS_LP\x64\1049
127   C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\Log\20140910_112604\Datastore_GlobalRules
128   C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-09-16-20-44-23\manual\images
129   C:\Program Files\Microsoft SQL Server\110\SDK
130   C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\1036_FRA_LP\x64
131   C:\Program Files\Windows NT\Accessories
132   C:\Program Files\Tanium\Tanium Server\content_public_keys
133   C:\Program Files\Windows NT\TableTextService\en-US
134   C:\Program Files\Tanium\Tanium Server\plugins\console\Manifest
135   C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-09-16-20-44-23\bin
136   C:\Program Files\Tanium\Tanium Server\Apache24\logs
137   C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\1033_ENU_LP
138   C:\Program Files\Tanium\Tanium Server\plugins\content
139   C:\Program Files\Reference Assemblies\Microsoft\Framework
140   C:\Program Files\Microsoft SQL Server\110\DTS\Connections\en
141   C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-11-17-11-17-33\icons\small
142   C:\Program Files\Common Files\VMware\Drivers\Virtual Printer\TPOG3\amd64
143   C:\Program Files\Microsoft Visual Studio 10.0\Common7\IDE\PrivateAssemblies\1033
144   C:\Program Files\Common Files\Microsoft Shared\ink\ko-KR
145   C:\Program Files\Tanium\Tanium Server\Apache24\manual\ssl
146   C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\1042_KOR_LP\x64
147   C:\Program Files\Tanium\Tanium Server\Apache24\manual\style\css
148   C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-11-17-11-17-33\manual\misc
149   C:\Program Files\Microsoft SQL Server\110\SDK\Lib\x64
150   C:\Program Files\Microsoft SQL Server\110\SDK\Lib\x86
151   C:\Program Files\Tanium\Tanium Server\plugins\console\lib
152   C:\Program Files\Common Files\Microsoft Shared\ink\it-IT
153   C:\Program Files\Microsoft.NET
154   C:\Program Files\Microsoft SQL Server\110\DTS\DataDumps
155   C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-11-17-11-17-33\conf
```

```
156   C:\Program Files\Internet Explorer\images
157   C:\Program Files\Windows NT
158   C:\Program Files\Microsoft SQL Server\110\COM\Resources\1033
159   C:\Program Files\Microsoft SQL Server\MSSQL11.SQLEXPRESS\MSSQL\JOBS
160   C:\Program Files\Tanium\Tanium Server\Apache24\htdocs
161   C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\1041_JPN_LP
162   C:\Program Files\Tanium\Tanium Server\php55\extras
163   C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\1031_DEU_LP\x64\1031\help
164   C:\Program Files\Microsoft SQL Server\100\Setup Bootstrap
165   C:\Program Files\Common Files\SpeechEngines\Microsoft\TTS20
166   C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-09-16-20-44-23
167   C:\Program Files\Common Files\Microsoft Shared\Triedit
168   C:\Program Files\Microsoft.NET\ADOMD.NET\110
169   C:\Program Files\Microsoft SQL Server\110\Shared
170   C:\Program Files\Microsoft SQL Server\110\Tools\Binn
171   C:\Program Files\Microsoft Help Viewer
172   C:\Program Files\Microsoft SQL Server\100\Setup Bootstrap\Release\x64\Patch
173   C:\Program Files\Tanium\Tanium Server\Apache24\bin\iconv
174   C:\Program Files\Common Files\VMware\Drivers\memctl
175   C:\Program Files\Tanium\Tanium Server\plugins\console
176   C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-09-16-20-44-23\conf\original
177   C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-09-16-20-44-23\htdocs\php
178   C:\Program Files\Microsoft SQL Server\90\License Terms
179   C:\Program Files\Microsoft SQL Server\100\Setup Bootstrap\Release\Resources
180   C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\x64\pt
181   C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\x64\ru
182   C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-11-17-11-17-33\lib
183   C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\x64\it
184   C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\x64\ko
185   C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\x64\ja
186   C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\x64\es
187   C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\x64\de
188   C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\x64\fr
189   C:\Program Files\Common Files\Microsoft Shared\ink\he-IL
190   C:\Program Files\Common Files\Microsoft Shared\ink\ro-RO
191   C:\Program Files\Common Files\VMware\Drivers\pvscsi
192   C:\Program Files\Microsoft Visual Studio 10.0\Common7\Packages
193   C:\Program Files\Microsoft Visual Studio 10.0\Common7
194   C:\Program Files\Common Files\Services
195   C:\Program Files\Common Files\Microsoft Shared\ink\fsdefinitions\oskpred
196   C:\Program Files\Microsoft SQL Server\110\SDK\Lib
197   C:\Program Files\Microsoft SQL Server\110\DTS\PipelineComponents\Resources\1033
198   C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-09-16-20-44-23\manual\misc
199   C:\Program Files\Tanium\Tanium Server\Apache24\manual\misc
200   C:\Program Files\Common Files\SpeechEngines\Microsoft\TTS20\en-US
201   C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-11-17-11-17-33\modules
202   C:\Program Files\Microsoft SQL Server\110\DTS\Connections
203   C:\Program Files\Tanium\Tanium Server\Downloads\URLCache
204   C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\1046_PTB_LP
205   C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-09-16-20-44-23\manual\rewrite
206   C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-11-17-11-17-33\manual\images
207   C:\Program Files\Common Files\VMware\Drivers\vmci\device
208   C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-11-17-11-17-33\manual\rewrite
209   C:\Program Files\Common Files
210   C:\Program Files\Tanium\Tanium Server\Apache24\manual
211   C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-09-16-20-44-23\manual\platform
212   C:\Program Files\Tanium\Tanium Server\Apache24\conf\extra
213   C:\Program Files\Common Files\VMware\Drivers\vmci
```

```
214  C:\Program Files\Common Files\System\msadc\en-US
215  C:\Program Files\Common Files\System
216  C:\Program Files\Windows NT\Accessories\en-US
217  C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\1036_FRA_LP\x64\1036
218  C:\Program Files\Microsoft SQL Server\MSSQL11.SQLEXPRESS\MSSQL\Binn\Resources
219  C:\Program Files\Tanium\Tanium Server\plugins\console\RegistrySetting
220  C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\1046_PTB_LP\x64\1046
221  C:\Program Files\Tanium\Tanium Server\Apache24\manual\rewrite
222  C:\Program Files\VMware\VMware Tools
223  C:\Program Files\Common Files\Microsoft Shared\ink\fsdefinitions\numbers
224  C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\1049_RUS_LP\x64
225  C:\Program Files\Microsoft SQL Server\MSSQL11.SQLEXPRESS\MSSQL\Log
226  C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-09-16-20-44-23\lib
227  C:\Program Files\Windows NT\TableTextService
228  C:\Program Files\Microsoft SQL Server\MSSQL11.SQLEXPRESS\MSSQL\Binn\Resources\1055
229  C:\Program Files\Microsoft SQL Server\MSSQL11.SQLEXPRESS\MSSQL\Binn\Resources\1053
230  C:\Program Files\Microsoft SQL Server\MSSQL11.SQLEXPRESS\MSSQL\Binn\Resources\1049
231  C:\Program Files\Microsoft SQL Server\MSSQL11.SQLEXPRESS\MSSQL\Binn\Resources\1041
232  C:\Program Files\Microsoft SQL Server\MSSQL11.SQLEXPRESS\MSSQL\Binn\Resources\1040
233  C:\Program Files\Microsoft SQL Server\MSSQL11.SQLEXPRESS\MSSQL\Binn\Resources\1043
234  C:\Program Files\Microsoft SQL Server\MSSQL11.SQLEXPRESS\MSSQL\Binn\Resources\1042
235  C:\Program Files\Microsoft SQL Server\MSSQL11.SQLEXPRESS\MSSQL\Binn\Resources\1045
236  C:\Program Files\Microsoft SQL Server\MSSQL11.SQLEXPRESS\MSSQL\Binn\Resources\1044
237  C:\Program Files\Microsoft SQL Server\MSSQL11.SQLEXPRESS\MSSQL\Binn\Resources\1046
238  C:\Program Files\Microsoft SQL Server\MSSQL11.SQLEXPRESS\MSSQL\Binn\Resources\1038
239  C:\Program Files\Microsoft SQL Server\MSSQL11.SQLEXPRESS\MSSQL\Binn\Resources\1035
240  C:\Program Files\Microsoft SQL Server\MSSQL11.SQLEXPRESS\MSSQL\Binn\Resources\1036
241  C:\Program Files\Microsoft SQL Server\MSSQL11.SQLEXPRESS\MSSQL\Binn\Resources\1030
242  C:\Program Files\Microsoft SQL Server\MSSQL11.SQLEXPRESS\MSSQL\Binn\Resources\1031
243  C:\Program Files\Microsoft SQL Server\MSSQL11.SQLEXPRESS\MSSQL\Binn\Resources\1032
244  C:\Program Files\Microsoft SQL Server\MSSQL11.SQLEXPRESS\MSSQL\Binn\Resources\1033
245  C:\Program Files\Microsoft SQL Server\MSSQL11.SQLEXPRESS\MSSQL\Binn\Resources\1029
246  C:\Program Files\Microsoft SQL Server\MSSQL11.SQLEXPRESS\MSSQL\Binn\Resources\1028
247  C:\Program Files\Tanium\Tanium Server\Apache24\htdocs\console
248  C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\1042_KOR_LP\x64\1042
249  C:\Program Files\Tanium\Tanium Server\Apache24\error
250  C:\Program Files\Common Files\Microsoft Shared\ink\nb-NO
251  C:\Program Files\Tanium\Tanium Server\Apache24\manual\mod
252  C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\1041_JPN_LP\x64
253  C:\Program Files\Common Files\Microsoft Shared\ink\lv-LV
254  C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-09-16-20-44-23\manual
255  C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\1033_ENU_LP\x64\1033
256  C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-09-16-20-44-23\conf\original\extra
257  C:\Program Files\Common Files\Microsoft Shared\ink\fsdefinitions\auxpad
258  C:\Program Files\Common Files\Microsoft Shared\TextConv
259  C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-09-16-20-44-23\manual\developer
260  C:\Program Files\Common Files\Microsoft Shared\MSInfo\en-US
261  C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\3082_ESN_LP\x64\3082
262  C:\Program Files\Common Files\Microsoft Shared\ink\nl-NL
263  C:\Program Files\Tanium
264  C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-11-17-11-17-33\manual\howto
265  C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-11-17-11-17-33\include
266  C:\Program Files\Reference Assemblies\Microsoft\Framework\v3.5\RedistList
267  C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\Log\20140910_112532\Datastore_LandingPage
268  C:\Program Files\Microsoft SQL Server\100\KeyFile\1033
269  C:\Program Files\Microsoft SQL Server\110\Tools\Binn\Resources\1033
270  C:\Program Files\Tanium\Tanium Server\Downloads\Cache
271  C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-11-17-11-17-33\manual\style\latex
```

```
272  C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\3082_ESN_LP
273  C:\Program Files\Tanium\Tanium Server\php55\dev
274  C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-11-17-11-17-33\bin\iconv
275  C:\Program Files\VMware\VMware Tools\messages\zh_CN
276  C:\Program Files\Tanium\Tanium Server\Apache24\manual\vhosts
277  C:\Program Files\Common Files\VMware\Drivers\vmci\sockets
278  C:\Program Files\Microsoft SQL Server\90\Shared\Resources\1033
279  C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-09-16-20-44-23\conf
280  C:\Program Files\Common Files\VMware
281  C:\Program Files\Common Files\System\msadc
282  C:\Program Files\Microsoft SQL Server\110\Tools
283  C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-11-17-11-17-33\htdocs\php
284  C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\1040_ITA_LP
285  C:\Program Files\Common Files\Microsoft Shared\ink\fr-FR
286  C:\Program Files\Common Files\VMware\Drivers\vss
287  C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-11-17-11-17-33\bin
288  C:\Program Files\Common Files\Microsoft Shared\ink\tr-TR
289  C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-11-17-11-17-33\manual\programs
290  C:\Program Files\Common Files\Microsoft Shared\VC
291  C:\Program Files\Tanium\Tanium Server\php55\ext
292  C:\Program Files\Common Files\Microsoft Shared\WF
293  C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-09-16-20-44-23\manual\ssl
294  C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-11-17-11-17-33\htdocs
295  C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-11-17-11-17-33\htdocs\console
296  C:\Program Files\Microsoft SQL Server\MSSQL11.SQLEXPRESS\MSSQL\Binn\Templates
297  C:\Program Files\Tanium\Tanium Server\plugins
298  C:\Program Files\Tanium\Tanium Server\Apache24\icons\small
299  C:\Program Files\Microsoft SQL Server\110\Shared\en
300  C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-09-16-20-44-23\htdocs\php\Auth
301  C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-09-16-20-44-23\error\include
302  C:\Program Files\Microsoft SQL Server\100\Setup Bootstrap\Release\x64\Help
303  C:\Program Files\Microsoft Help Viewer\v1.0\Microsoft Help Viewer 1.1
304  C:\Program Files\Microsoft SQL Server\110\Tools\Binn\ManagementStudio
305  C:\Program Files\Common Files\Microsoft Shared\ink\fsdefinitions\symbols
306  C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\1036_FRA_LP\x64\1036\help
307  C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-11-17-11-17-33\manual
308  C:\Program Files\Common Files\System\Ole DB\en-US
309  C:\Program Files\Microsoft SQL Server\110\Tools\Binn\ManagementStudio\Extensions
310  C:\Program Files\Microsoft SQL Server\80\Tools\Binn
311  C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\2052_CHS_LP
312  C:\Program Files\Common Files\Microsoft Shared\ink\lt-LT
313  C:\Program Files\Microsoft SQL Server\MSSQL11.SQLEXPRESS\MSSQL\Binn
314  C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\x64
315  C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-09-16-20-44-23\htdocs
316  C:\Program Files\Microsoft SQL Server\100\KeyFile
317  C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-11-17-11-17-33\manual\style
318  C:\Program Files\Microsoft SQL Server\MSSQL11.SQLEXPRESS\MSSQL\Install
319  C:\Program Files\Common Files\Microsoft Shared\ink\et-EE
320  C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\1028_CHT_LP
321  C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\1040_ITA_LP\x64\1040
322  C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\1028_CHT_LP\x64
323  C:\Program Files\Common Files\VMware\Drivers\Virtual Printer\TPOGPS
324  C:\Program Files\Common Files\Microsoft Shared\ink\cs-CZ
325  C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\2052_CHS_LP\x64\2052\help
326  C:\Program Files\VMware
327  C:\Program Files\Microsoft SQL Server\110\Shared\VS2008
328  C:\Program Files\Microsoft Visual Studio 10.0\Common7\Packages\Debugger
329  C:\Program Files\Common Files\VMware\Drivers\mouse
```

```
330   C:\Program Files\Common Files\VMware\Drivers\vmci\sockets\bin
331   C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-09-16-20-44-23\bin\iconv
332   C:\Program Files\Common Files\Microsoft Shared\ink\en-US
333   C:\Program Files\Microsoft SQL Server\MSSQL11.SQLEXPRESS\MSSQL\Backup
334   C:\Program Files\Tanium\Tanium Server\VB
335   C:\Program Files\Microsoft SQL Server\110\DTS\ForEachEnumerators\Resources\1033
336   C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-11-17-11-17-33\manual\vhosts
337   C:\Program Files\Common Files\Microsoft Shared\ink\bg-BG
338   C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-11-17-11-17-33\manual\ssl
339   C:\Program Files\Tanium\Tanium Server\Apache24\bin
340   C:\Program Files\Common Files\System\Ole DB
341   C:\Program Files\Tanium\Tanium Server\Apache24\manual\faq
342   C:\Program Files\Microsoft SQL Server\MSSQL11.SQLEXPRESS
343   C:\Program Files\Common Files\VMware\Drivers\audio
344   C:\Program Files\Microsoft SQL Server\110\DTS\Binn\Resources
345   C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\1041_JPN_LP\x64\1041
346   C:\Program Files\Reference Assemblies\Microsoft\Framework\v3.0\RedistList
347   C:\Program Files\Tanium\Tanium Server\Downloads
348   C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\1049_RUS_LP\x64\1049\help
349   C:\Program Files\Microsoft Visual Studio 10.0\Common7\Packages\Debugger\x86
350   C:\Program Files\Microsoft Visual Studio 10.0\Common7\Packages\Debugger\X64
351   C:\Program Files\MSBuild\Microsoft\Windows Workflow Foundation
352   C:\Program Files\Microsoft SQL Server\100\Shared
353   C:\Program Files\Internet Explorer\SIGNUP
354   C:\Program Files\Common Files\Microsoft Shared\ink\es-ES
355   C:\Program Files\Tanium\Tanium Server\Support
356   C:\Program Files\Microsoft SQL Server\110\DTS\Binn
357   C:\Program Files\Common Files\Microsoft Shared\MSInfo
358   C:\Program Files\Reference Assemblies
359   C:\Program Files\Microsoft SQL Server\110\Shared\RsFxInstall
360   C:\Program Files\Microsoft Help Viewer\v1.0\CatalogInfo
361   C:\Program Files\Microsoft SQL Server\110\DTS\MappingFiles
362   C:\Program Files\Microsoft SQL Server\110\DTS\PipelineComponents\Resources
363   C:\Program Files\Common Files\Microsoft Shared\WF\amd64
364   C:\Program Files\Tanium\Tanium Server\plugins\console\SigVerifier
365   C:\Program Files\Tanium\Tanium Server\plugins\console\DashboardGroups
366   C:\Program Files\Microsoft SQL Server\80\Tools
367   C:\Program Files\Microsoft SQL Server\MSSQL11.SQLEXPRESS\MSSQL\Template Data
368   C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-09-16-20-44-23\icons
369   C:\Program Files\Common Files\Microsoft Shared\ink\de-DE
370   C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\1031_DEU_LP\x64\1031
371   C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\1042_KOR_LP
372   C:\Program Files\Microsoft Visual Studio 10.0\Common7\IDE
373   C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\1033_ENU_LP\x64\1033\help
374   C:\Program Files\Common Files\Microsoft Shared\ink\fsdefinitions\main
375   C:\Program Files\Microsoft Help Viewer\v1.0\StopWords
376   C:\Program Files\Microsoft SQL Server\110\Tools\Binn\ManagementStudio\Extensions\Application
377   C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap
378   C:\Program Files\Microsoft SQL Server\MSSQL11.SQLEXPRESS\MSSQL\repldata
379   C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\x64\zh-CHT
380   C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\x64\zh-CHS
381   C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-09-16-20-44-23\manual\vhosts
382   C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\1042_KOR_LP\x64\1042\help
383   C:\Program Files\Microsoft SQL Server\110\DTS\Tasks\en
384   C:\Program Files\Common Files\SpeechEngines
385   C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-09-16-20-44-23\logs
386   C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-09-16-20-44-23\manual\mod
387   C:\Program Files\VMware\VMware Tools\Drivers\hgfs
```

```
388  C:\Program Files\Tanium\Tanium Server\Apache24\conf\original
389  C:\Program Files\Uninstall Information
390  C:\Program Files\Reference Assemblies\Microsoft\Framework\v3.5
391  C:\Program Files\Reference Assemblies\Microsoft\Framework\v3.0
392  C:\Program Files\Microsoft Visual Studio 10.0\Common7\IDE\Xml
393  C:\Program Files\Microsoft SQL Server\110\DTS\PipelineComponents
394  C:\Program Files\Microsoft SQL Server\90\Shared\Resources
395  C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\1046_PTB_LP\x64\1046\help
396  C:\Program Files\Tanium\Tanium Server\Apache24\include
397  C:\Program Files\Tanium\Tanium Server\plugins\console\GroupFiliters
398  C:\Program Files\VMware\VMware Tools\Drivers
399  C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\1041_JPN_LP\x64\1041\help
400  C:\Program Files\Tanium\Tanium Server\Downloads\tmp
401  C:\Program Files\Microsoft SQL Server\100\Setup Bootstrap\Release
402  C:\Program Files\Tanium\Tanium Server\Apache24\conf\original\extra
403  C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-11-17-11-17-33\manual\style\scripts
404  C:\Program Files\Common Files\Microsoft Shared\ink\sr-Latn-CS
405  C:\Program Files\Common Files\Microsoft Shared\ink\fsdefinitions\osknumpad
406  C:\Program Files\Microsoft SQL Server\110\License Terms
407  C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012
408  C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\1031_DEU_LP\x64
409  C:\Program Files\Common Files\VMware\Drivers\vmxnet
410  C:\Program Files\Tanium\Tanium Server\Strings
411  C:\Program Files\MSBuild
412  C:\Program Files\Microsoft SQL Server\110\COM\Resources
413  C:\Program Files\Common Files\VMware\Drivers\Virtual Printer\TPOGPS\amd64
414  C:\Program Files\Microsoft SQL Server\80\COM
415  C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-09-16-20-44-23\htdocs\console\history
416  C:\Program Files\Tanium\Tanium Server\Apache24\manual\howto
417  C:\Program Files\Microsoft SQL Server\110\Shared\Resources\1033
418  C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-09-16-20-44-23\conf\extra
419  C:\Program Files\Common Files\Microsoft Shared\MSEnv
420  C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\2052_CHS_LP\x64\2052
421  C:\Program Files\Common Files\VMware\Drivers\Virtual Printer
422  C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-11-17-11-17-33\htdocs\console\history
423  C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\1028_CHT_LP\x64\1028
424  C:\Program Files\Microsoft SQL Server\110\Shared\VS2008\1033
425  C:\Program Files\Common Files\Microsoft Shared\ink\pt-BR
426  C:\Program Files\Common Files\Microsoft Shared\ink\pt-PT
427  C:\Program Files\Common Files\System\ado
428  C:\Program Files\Microsoft SQL Server\110\KeyFile\1033
429  C:\Program Files\Tanium\Tanium Server\SOAPUpload
430  C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\Resources\2052
431  C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\Log\20140910_112604\resources
432  C:\Program Files\Microsoft SQL Server\MSSQL11.SQLEXPRESS\MSSQL\DATA
433  C:\Program Files\Tanium\Tanium Server\php55\extras\ssl
434  C:\Program Files\Common Files\Microsoft Shared\ink\el-GR
435  C:\Program Files\VMware\VMware Tools\win32
436  C:\Program Files\VMware\VMware Tools\win64
437  C:\Program Files\Microsoft SQL Server\110\Shared\Resources
438  C:\Program Files\Internet Explorer
439  C:\Program Files\Tanium\Tanium Server\Apache24\icons
440  C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\1033_ENU_LP\x64
441  C:\Program Files\Microsoft SQL Server\MSSQL11.SQLEXPRESS\MSSQL
442  C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\1031_DEU_LP
443  C:\Program Files\Tanium\Tanium Server\Apache24\manual\programs
444  C:\Program Files\Common Files\VMware\Drivers\vmxnet3
445  C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\1049_RUS_LP
```

```
446   C:\Program Files\VMware\VMware Tools\Drivers\hgfs\wow64
447   C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\Log
448   C:\Program Files\Microsoft SQL Server\90\License Terms\1033
449   C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-11-17-11-17-33\logs
450   C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-11-17-11-17-33\manual\faq
451   C:\Program Files\Tanium\Tanium Server\Suppot_patch1
452   C:\Program Files\Common Files\Microsoft Shared\ink\fsdefinitions\web
453   C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-11-17-11-17-33\cgi-bin
454   C:\Program Files\Tanium\Tanium Server\Apache24\manual\developer
455   C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\Resources\1036
456   C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\Resources\1033
457   C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\Resources\1031
458   C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\Resources\1028
459   C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\Resources\1049
460   C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\Resources\1046
461   C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\Resources\1042
462   C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\Resources\1041
463   C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\Resources\1040
464   C:\Program Files\Microsoft SQL Server\100\Setup Bootstrap\Release\x64
465   C:\Program Files\Tanium\Tanium Server\Apache24\manual\style\latex
466   C:\Program Files\Tanium\Tanium Server
467   C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-09-16-20-44-23\htdocs\console
468   C:\Program Files\Tanium\Tanium Server\http
469   C:\Program Files\Common Files\Microsoft Shared\ink\ja-JP
470   C:\Program Files\Microsoft SQL Server\110\DTS\Packages
471   C:\Program Files\Common Files\Microsoft Shared\ink\sk-SK
472   C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-11-17-11-17-33\manual\style\css
473   C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-11-17-11-17-33\conf\original
474   C:\Program Files\Tanium\Tanium Server\Apache24\htdocs\php
475   C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-09-16-20-44-23\manual\howto
476   C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-09-16-20-44-23\manual\style\latex
477   C:\Program Files\Common Files\Microsoft Shared\ink\hr-HR
478   C:\Program Files\Common Files\VMware\Drivers
479   C:\Program Files\Tanium\Tanium Server\Apache24\lib
480   C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\Log\20140910_112532
481   C:\Program Files\Microsoft Help Viewer\v1.0
482   C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-11-17-11-17-33\conf\extra
483   C:\Program Files\Tanium\Tanium Server\Apache24
484   C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-09-16-20-44-23\manual\style\scripts
485   C:\Program Files\Common Files\Microsoft Shared\VGX
486   C:\Program Files\Microsoft SQL Server\110\DTS\ProviderDescriptors
487   C:\Program Files\Microsoft SQL Server\110\COM\en
488   C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-09-16-20-44-23\manual\faq
489   C:\Program Files\Tanium\Tanium Server\Apache24\manual\style\scripts
490   C:\Program Files\Common Files\Microsoft Shared\Triedit\en-US
491   C:\Program Files\Microsoft SQL Server\100\Setup Bootstrap\Release\x64\Help\1033
492   C:\Program Files\Microsoft SQL Server\110\COM
493   C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\1046_PTB_LP\x64
494   C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\Log\20140910_112831\Datastore_GlobalRules
495   C:\Program Files\Common Files\Microsoft Shared\TextConv\en-US
496   C:\Program Files\VMware\VMware Tools\plugins
497   C:\Program Files\Microsoft SQL Server\110\DTS
498   C:\Program Files\Tanium\Tanium Server\plugins\console\SavedQuestions
499   C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-11-17-11-17-33\error\include
500   C:\Program Files\Common Files\System\ado\en-US
501   C:\Program Files\Tanium\Tanium Server\Apache24\cgi-bin
502   C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\Log\20140910_112604
503   C:\Program Files\VMware\VMware Tools\plugins\vmusr
```

```
504   C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\Log\20140910_112831\Datastore
505   C:\Program Files\Microsoft SQL Server\MSSQL11.SQLEXPRESS\MSSQL\Binn\DllTmp64
506   C:\Program Files\Microsoft SQL Server\MSSQL11.SQLEXPRESS\MSSQL\Binn\DllTmp32
507   C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-09-16-20-44-23\manual\programs
508   C:\Program Files\Microsoft SQL Server\110\Tools\Binn\Resources
509   C:\Program Files\Tanium\Tanium Server\php55
510   C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-09-16-20-44-23\manual\style
511   C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\1040_ITA_LP\x64
512   C:\Program Files\Reference Assemblies\Microsoft
513   C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-09-16-20-44-23\include
514   C:\Program Files\Tanium\Tanium Server\Apache24\manual\images
515   C:\Program Files\Common Files\Microsoft Shared\ink\fsdefinitions
516   C:\Program Files\Microsoft SQL Server\110\SDK\Assemblies\en
517   C:\Program Files\Tanium\Tanium Server\Logs
518   C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-11-17-11-17-33\manual\mod
519   C:\Program Files\Common Files\VMware\Drivers\Virtual Printer\TPOG3
520   C:\Program Files\Microsoft SQL Server\110
521   C:\Program Files\Microsoft SQL Server\100
522   C:\Program Files\Tanium\Tanium Server\Apache24\modules
523   C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-11-17-11-17-33\manual\platform
524   C:\Program Files\Microsoft Visual Studio 10.0
525   C:\Program Files\Microsoft SQL Server\MSSQL11.SQLEXPRESS\MSSQL\Binn\Resources\3082
526   C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\Log\20140910_112831
527   C:\Program Files\VMware\VMware Tools\plugins\common
528   C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\Log\20140910_112804
529   C:\Program Files\Common Files\Microsoft Shared\ink\th-TH
530   C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-11-17-11-17-33\icons
531   C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\Log\20140910_112831\Datastore_ComponentUpd
532   C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-11-17-11-17-33\error
533   C:\Program Files\Microsoft SQL Server
534   C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-09-16-20-44-23\error
535   C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\3082_ESN_LP\x64
536   C:\Program Files\Common Files\Microsoft Shared\SQL Debugging
537   C:\Program Files\Tanium\Tanium Server\Apache24\error\include
538   C:\Program Files\Microsoft SQL Server\110\SDK\Assemblies
539   C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\x64\Patch
540   C:\Program Files\Microsoft Help Viewer\v1.0\en
541   C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\3082_ESN_LP\x64\3082\help
542   C:\Program Files\Microsoft SQL Server\90\Shared
543   C:\Program Files\Microsoft SQL Server\MSSQL11.SQLEXPRESS\MSSQL\Binn\Resources\2052
544   C:\Program Files\Microsoft SQL Server\MSSQL11.SQLEXPRESS\MSSQL\Binn\Resources\2070
545   C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-11-17-11-17-33\conf\original\extra
546   C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-11-17-11-17-33\manual\developer
547   C:\Program Files\Common Files\Microsoft Shared\ink\pl-PL
548   C:\Program Files\Common Files\SpeechEngines\Microsoft\TTS20\en-US\enu-dsk
549   C:\Program Files\Common Files\Microsoft Shared\Stationery
550   C:\Program Files\Common Files\Microsoft Shared\VS7Debug\1033
551   C:\Program Files\Microsoft SQL Server\100\Setup Bootstrap\Bin
552   C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\Resources
553   C:\Program Files\Microsoft SQL Server\110\Shared\ErrorDumps
554   C:\Program Files\Internet Explorer\en-US
555   C:\Program Files\VMware\VMware Tools\messages\it
556   C:\Program Files\VMware\VMware Tools\messages\ja
557   C:\Program Files\VMware\VMware Tools\messages\ko
558   C:\Program Files\VMware\VMware Tools\messages\de
559   C:\Program Files\VMware\VMware Tools\messages\es
560   C:\Program Files\VMware\VMware Tools\messages\fr
561   C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\1036_FRA_LP
```

```
562   C:\Program Files\Microsoft SQL Server\110\DTS\Tasks","0.0.0.0
563   0.0.0.0
564   0.0.0.0
565   172.16.31.2
566   0.0.0.0","172.16.31.128
567   fe80::5968:4e9d:b4fc:88ef","-
568   -
569   -
570   -
571   -","255.255.255.255
572   255.255.255.0
573   255.255.255.255
574   0.0.0.0
575   255.0.0.0","266
576   266
577   306
578   266
579   306"
```

Export resultset csv type true

Export a ResultSet from asking a question as CSV with true for header_add_type

Example Python Code

```python
1    # Path to lib directory which contains pytan package
2    PYTAN_LIB_PATH = '../lib'
3
4    # connection info for Tanium Server
5    USERNAME = "Tanium User"
6    PASSWORD = "T@n!um"
7    HOST = "172.16.31.128"
8    PORT = "444"
9
10   # Logging conrols
11   LOGLEVEL = 2
12   DEBUGFORMAT = False
13
14   import sys, tempfile
15   sys.path.append(PYTAN_LIB_PATH)
16
17   import pytan
18   handler = pytan.Handler(
19       username=USERNAME,
20       password=PASSWORD,
21       host=HOST,
22       port=PORT,
23       loglevel=LOGLEVEL,
24       debugformat=DEBUGFORMAT,
25   )
26
27   print handler
28
29   # setup the export_obj kwargs for later
30   export_kwargs = {}
```

```
31  export_kwargs["export_format"] = u'csv'
32  export_kwargs["header_add_type"] = True
33
34  # ask the question that will provide the resultset that we want to use
35  ask_kwargs = {
36      'qtype': 'manual_human',
37      'sensors': [
38          "Computer Name", "IP Route Details", "IP Address",
39          'Folder Name Search with RegEx Match{dirname=Program Files,regex=.*Shared.*}',
40      ],
41  }
42  response = handler.ask(**ask_kwargs)
43
44  # export the object to a string
45  # (we could just as easily export to a file using export_to_report_file)
46  export_kwargs['obj'] = response['question_results']
47  export_str = handler.export_obj(**export_kwargs)
48
49
50  print ""
51  print "print the export_str returned from export_obj():"
52  print export_str
```

Output from Python Code

```
1   Handler for Session to 172.16.31.128:444, Authenticated: True, Version: 6.2.314.3258
2   2014-12-07 01:22:37,267 INFO     question_progress: Results 0% (Get Computer Name and IP Route Detai
3   2014-12-07 01:22:42,295 INFO     question_progress: Results 0% (Get Computer Name and IP Route Detai
4   2014-12-07 01:22:47,320 INFO     question_progress: Results 0% (Get Computer Name and IP Route Detai
5   2014-12-07 01:22:52,345 INFO     question_progress: Results 0% (Get Computer Name and IP Route Detai
6   2014-12-07 01:22:57,376 INFO     question_progress: Results 0% (Get Computer Name and IP Route Detai
7   2014-12-07 01:23:02,402 INFO     question_progress: Results 0% (Get Computer Name and IP Route Detai
8   2014-12-07 01:23:07,429 INFO     question_progress: Results 0% (Get Computer Name and IP Route Detai
9   2014-12-07 01:23:12,454 INFO     question_progress: Results 0% (Get Computer Name and IP Route Detai
10  2014-12-07 01:23:17,484 INFO     question_progress: Results 0% (Get Computer Name and IP Route Detai
11  2014-12-07 01:23:22,507 INFO     question_progress: Results 100% (Get Computer Name and IP Route Det
12
13  print the export_str returned from export_obj():
14  Computer Name (String),Destination (IPAddress),Flags (String),"Folder Name Search with RegEx Match[N
15  Casus-Belli.local,"default
16  192.168.0
17  169.254
18  172.16.31/24
19  192.168.0.1/32
20  172.16.152/24
21  192.168.0.3/32","UGSc
22  UCS
23  UCS
24  UC
25  UCS
26  UC
27  UCS",Windows Only,"192.168.0.1
28  link#4
29  link#4
30  link#13
31  link#4
32  link#12
```

```
33  link#4","fe80::e896:c1c9:d927:bbe0
34  2604:2000:69e6:1a00:82e6:50ff:fe1d:1dca
35  172.16.31.1
36  fe80::82e6:50ff:fe1d:1dca
37  172.16.152.1
38  192.168.0.3
39  fe80::2886:21ff:fe7f:3ef4
40  2604:2000:69e6:1a00:95ad:5fe5:cf9e:5403
41  fd1b:56a6:50eb:cd49:e896:c1c9:d927:bbe0","en0
42  en0
43  en0
44  vmnet8
45  en0
46  vmnet1
47  en0","None
48  None
49  None
50  None
51  None
52  None
53  None","None
54  None
55  None
56  None
57  None
58  None
59  None"
60  jtanium1.localdomain,"172.16.31.128
61  172.16.31.0
62  127.0.0.1
63  0.0.0.0
64  127.0.0.0","-
65  -
66  -
67  -
68  -","C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-09-16-20-44-23\cgi-bin
69  C:\Program Files\VMware\VMware Tools\plugins\vmsvc
70  C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\1040_ITA_LP\x64\1040\help
71  C:\Program Files\Common Files\Microsoft Shared\VS7Debug
72  C:\Program Files\Tanium\Tanium Server\Apache24\manual\style
73  C:\Program Files\Tanium\Tanium Server\Apache24\htdocs\console\history
74  C:\Program Files\Common Files\VMware\Drivers\vmci\sockets\include
75  C:\Program Files\Common Files\Microsoft Shared\ink\ar-SA
76  C:\Program Files\Tanium\Tanium Server\plugins\console\Dashboards
77  C:\Program Files\Tanium\Tanium Server\CertificateBackup2014-11-17-11-17-33
78  C:\Program Files\Common Files\SpeechEngines\Microsoft
79  C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-09-16-20-44-23\modules
80  C:\Program Files\Common Files\Microsoft Shared\ink\ru-RU
81  C:\Program Files\Microsoft SQL Server\110\DTS\ForEachEnumerators\en
82  C:\Program Files\Tanium\Tanium Server\Apache24\htdocs\php\Auth
83  C:\Program Files\MSBuild\Microsoft\Windows Workflow Foundation\v3.0
84  C:\Program Files\MSBuild\Microsoft\Windows Workflow Foundation\v3.5
85  C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\2052_CHS_LP\x64
86  C:\Program Files\Common Files\Microsoft Shared\ink\fsdefinitions\keypad
87  C:\Program Files\Tanium\Tanium Server\plugins\console\InstallPlugin
88  C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\Log\20140910_112831\resources
89  C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\Bin
90  C:\Program Files\Microsoft SQL Server\110\DTS\ForEachEnumerators
```

```
 91   C:\Program Files\Tanium\Tanium Server\Apache24\conf
 92   C:\Program Files\MSBuild\Microsoft
 93   C:\Program Files\Microsoft SQL Server\110\DTS\UpgradeMappings
 94   C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-11-17-11-17-33\htdocs\php\Auth
 95   C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-09-16-20-44-23\manual\style\css
 96   C:\Program Files\Common Files\Microsoft Shared\ink
 97   C:\Program Files\Common Files\Microsoft Shared\ink\sv-SE
 98   C:\Program Files\VMware\VMware Tools\messages
 99   C:\Program Files\Microsoft SQL Server\110\DTS\ForEachEnumerators\Resources
100   C:\Program Files\Common Files\Microsoft Shared\ink\uk-UA
101   C:\Program Files\Microsoft SQL Server\110\DTS\Binn\Resources\1033
102   C:\Program Files\Tanium\Tanium Server\Apache24\manual\platform
103   C:\Program Files\Microsoft SQL Server\110\KeyFile
104   C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\Resources\3082
105   C:\Program Files\Tanium\Tanium Server\CertificateBackup2014-09-16-20-44-23
106   C:\Program Files\Microsoft SQL Server\100\Setup Bootstrap\Release\x64\1033
107   C:\Program Files\Microsoft.NET\ADOMD.NET
108   C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\1028_CHT_LP\x64\1028\help
109   C:\Program Files\Common Files\Microsoft Shared\ink\sl-SI
110   C:\Program Files\Tanium\Tanium Server\plugins\console\UserGroups
111   C:\Program Files\Common Files\Microsoft Shared\ink\hu-HU
112   C:\Program Files\Common Files\System\en-US
113   C:\Program Files\Common Files\Microsoft Shared\ink\zh-TW
114   C:\Program Files\Common Files\Microsoft Shared\ink\zh-CN
115   C:\Program Files\Common Files\VMware\Drivers\video_wddm
116   C:\Program Files\Common Files\Microsoft Shared\ink\fi-FI
117   C:\Program Files\Common Files\Microsoft Shared
118   C:\Program Files\Microsoft SQL Server\110\SDK\Include
119   C:\Program Files\Common Files\Microsoft Shared\ink\da-DK
120   C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-09-16-20-44-23\icons\small
121   C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-11-17-11-17-33
122   C:\Program Files\Microsoft Visual Studio 10.0\Common7\IDE\PrivateAssemblies
123   C:\Program Files\Microsoft SQL Server\80
124   C:\Program Files\Microsoft SQL Server\90
125   C:\Program Files\Windows Mail
126   C:\Program Files\Common Files\VMware\Drivers\vmci\sockets\bin\win64
127   C:\Program Files\Common Files\VMware\Drivers\vmci\sockets\bin\win32
128   C:\Program Files\Common Files\Microsoft Shared\ink\fsdefinitions\oskmenu
129   C:\Program Files\Microsoft SQL Server\110\DTS\LogProviders
130   C:\Program Files\Microsoft SQL Server\100\Setup Bootstrap\Release\Resources\1033
131   C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\1049_RUS_LP\x64\1049
132   C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\Log\20140910_112604\Datastore_GlobalRules
133   C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-09-16-20-44-23\manual\images
134   C:\Program Files\Microsoft SQL Server\110\SDK
135   C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\1036_FRA_LP\x64
136   C:\Program Files\Windows NT\Accessories
137   C:\Program Files\Tanium\Tanium Server\content_public_keys
138   C:\Program Files\Windows NT\TableTextService\en-US
139   C:\Program Files\Tanium\Tanium Server\plugins\console\Manifest
140   C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-09-16-20-44-23\bin
141   C:\Program Files\Tanium\Tanium Server\Apache24\logs
142   C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\1033_ENU_LP
143   C:\Program Files\Tanium\Tanium Server\plugins\content
144   C:\Program Files\Reference Assemblies\Microsoft\Framework
145   C:\Program Files\Microsoft SQL Server\110\DTS\Connections\en
146   C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-11-17-11-17-33\icons\small
147   C:\Program Files\Common Files\VMware\Drivers\Virtual Printer\TPOG3\amd64
148   C:\Program Files\Microsoft Visual Studio 10.0\Common7\IDE\PrivateAssemblies\1033
```

```
149   C:\Program Files\Common Files\Microsoft Shared\ink\ko-KR
150   C:\Program Files\Tanium\Tanium Server\Apache24\manual\ssl
151   C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\1042_KOR_LP\x64
152   C:\Program Files\Tanium\Tanium Server\Apache24\manual\style\css
153   C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-11-17-11-17-33\manual\misc
154   C:\Program Files\Microsoft SQL Server\110\SDK\Lib\x64
155   C:\Program Files\Microsoft SQL Server\110\SDK\Lib\x86
156   C:\Program Files\Tanium\Tanium Server\plugins\console\lib
157   C:\Program Files\Common Files\Microsoft Shared\ink\it-IT
158   C:\Program Files\Microsoft.NET
159   C:\Program Files\Microsoft SQL Server\110\DTS\DataDumps
160   C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-11-17-11-17-33\conf
161   C:\Program Files\Internet Explorer\images
162   C:\Program Files\Windows NT
163   C:\Program Files\Microsoft SQL Server\110\COM\Resources\1033
164   C:\Program Files\Microsoft SQL Server\MSSQL11.SQLEXPRESS\MSSQL\JOBS
165   C:\Program Files\Tanium\Tanium Server\Apache24\htdocs
166   C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\1041_JPN_LP
167   C:\Program Files\Tanium\Tanium Server\php55\extras
168   C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\1031_DEU_LP\x64\1031\help
169   C:\Program Files\Microsoft SQL Server\100\Setup Bootstrap
170   C:\Program Files\Common Files\SpeechEngines\Microsoft\TTS20
171   C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-09-16-20-44-23
172   C:\Program Files\Common Files\Microsoft Shared\Triedit
173   C:\Program Files\Microsoft.NET\ADOMD.NET\110
174   C:\Program Files\Microsoft SQL Server\110\Shared
175   C:\Program Files\Microsoft SQL Server\110\Tools\Binn
176   C:\Program Files\Microsoft Help Viewer
177   C:\Program Files\Microsoft SQL Server\100\Setup Bootstrap\Release\x64\Patch
178   C:\Program Files\Tanium\Tanium Server\Apache24\bin\iconv
179   C:\Program Files\Common Files\VMware\Drivers\memctl
180   C:\Program Files\Tanium\Tanium Server\plugins\console
181   C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-09-16-20-44-23\conf\original
182   C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-09-16-20-44-23\htdocs\php
183   C:\Program Files\Microsoft SQL Server\90\License Terms
184   C:\Program Files\Microsoft SQL Server\100\Setup Bootstrap\Release\Resources
185   C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\x64\pt
186   C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\x64\ru
187   C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-11-17-11-17-33\lib
188   C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\x64\it
189   C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\x64\ko
190   C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\x64\ja
191   C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\x64\es
192   C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\x64\de
193   C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\x64\fr
194   C:\Program Files\Common Files\Microsoft Shared\ink\he-IL
195   C:\Program Files\Common Files\Microsoft Shared\ink\ro-RO
196   C:\Program Files\Common Files\VMware\Drivers\pvscsi
197   C:\Program Files\Microsoft Visual Studio 10.0\Common7\Packages
198   C:\Program Files\Microsoft Visual Studio 10.0\Common7
199   C:\Program Files\Common Files\Services
200   C:\Program Files\Common Files\Microsoft Shared\ink\fsdefinitions\oskpred
201   C:\Program Files\Microsoft SQL Server\110\SDK\Lib
202   C:\Program Files\Microsoft SQL Server\110\DTS\PipelineComponents\Resources\1033
203   C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-09-16-20-44-23\manual\misc
204   C:\Program Files\Tanium\Tanium Server\Apache24\manual\misc
205   C:\Program Files\Common Files\SpeechEngines\Microsoft\TTS20\en-US
206   C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-11-17-11-17-33\modules
```

```
207   C:\Program Files\Microsoft SQL Server\110\DTS\Connections
208   C:\Program Files\Tanium\Tanium Server\Downloads\URLCache
209   C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\1046_PTB_LP
210   C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-09-16-20-44-23\manual\rewrite
211   C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-11-17-11-17-33\manual\images
212   C:\Program Files\Common Files\VMware\Drivers\vmci\device
213   C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-11-17-11-17-33\manual\rewrite
214   C:\Program Files\Common Files
215   C:\Program Files\Tanium\Tanium Server\Apache24\manual
216   C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-09-16-20-44-23\manual\platform
217   C:\Program Files\Tanium\Tanium Server\Apache24\conf\extra
218   C:\Program Files\Common Files\VMware\Drivers\vmci
219   C:\Program Files\Common Files\System\msadc\en-US
220   C:\Program Files\Common Files\System
221   C:\Program Files\Windows NT\Accessories\en-US
222   C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\1036_FRA_LP\x64\1036
223   C:\Program Files\Microsoft SQL Server\MSSQL11.SQLEXPRESS\MSSQL\Binn\Resources
224   C:\Program Files\Tanium\Tanium Server\plugins\console\RegistrySetting
225   C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\1046_PTB_LP\x64\1046
226   C:\Program Files\Tanium\Tanium Server\Apache24\manual\rewrite
227   C:\Program Files\VMware\VMware Tools
228   C:\Program Files\Common Files\Microsoft Shared\ink\fsdefinitions\numbers
229   C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\1049_RUS_LP\x64
230   C:\Program Files\Microsoft SQL Server\MSSQL11.SQLEXPRESS\MSSQL\Log
231   C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-09-16-20-44-23\lib
232   C:\Program Files\Windows NT\TableTextService
233   C:\Program Files\Microsoft SQL Server\MSSQL11.SQLEXPRESS\MSSQL\Binn\Resources\1055
234   C:\Program Files\Microsoft SQL Server\MSSQL11.SQLEXPRESS\MSSQL\Binn\Resources\1053
235   C:\Program Files\Microsoft SQL Server\MSSQL11.SQLEXPRESS\MSSQL\Binn\Resources\1049
236   C:\Program Files\Microsoft SQL Server\MSSQL11.SQLEXPRESS\MSSQL\Binn\Resources\1041
237   C:\Program Files\Microsoft SQL Server\MSSQL11.SQLEXPRESS\MSSQL\Binn\Resources\1040
238   C:\Program Files\Microsoft SQL Server\MSSQL11.SQLEXPRESS\MSSQL\Binn\Resources\1043
239   C:\Program Files\Microsoft SQL Server\MSSQL11.SQLEXPRESS\MSSQL\Binn\Resources\1042
240   C:\Program Files\Microsoft SQL Server\MSSQL11.SQLEXPRESS\MSSQL\Binn\Resources\1045
241   C:\Program Files\Microsoft SQL Server\MSSQL11.SQLEXPRESS\MSSQL\Binn\Resources\1044
242   C:\Program Files\Microsoft SQL Server\MSSQL11.SQLEXPRESS\MSSQL\Binn\Resources\1046
243   C:\Program Files\Microsoft SQL Server\MSSQL11.SQLEXPRESS\MSSQL\Binn\Resources\1038
244   C:\Program Files\Microsoft SQL Server\MSSQL11.SQLEXPRESS\MSSQL\Binn\Resources\1035
245   C:\Program Files\Microsoft SQL Server\MSSQL11.SQLEXPRESS\MSSQL\Binn\Resources\1036
246   C:\Program Files\Microsoft SQL Server\MSSQL11.SQLEXPRESS\MSSQL\Binn\Resources\1030
247   C:\Program Files\Microsoft SQL Server\MSSQL11.SQLEXPRESS\MSSQL\Binn\Resources\1031
248   C:\Program Files\Microsoft SQL Server\MSSQL11.SQLEXPRESS\MSSQL\Binn\Resources\1032
249   C:\Program Files\Microsoft SQL Server\MSSQL11.SQLEXPRESS\MSSQL\Binn\Resources\1033
250   C:\Program Files\Microsoft SQL Server\MSSQL11.SQLEXPRESS\MSSQL\Binn\Resources\1029
251   C:\Program Files\Microsoft SQL Server\MSSQL11.SQLEXPRESS\MSSQL\Binn\Resources\1028
252   C:\Program Files\Tanium\Tanium Server\Apache24\htdocs\console
253   C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\1042_KOR_LP\x64\1042
254   C:\Program Files\Tanium\Tanium Server\Apache24\error
255   C:\Program Files\Common Files\Microsoft Shared\ink\nb-NO
256   C:\Program Files\Tanium\Tanium Server\Apache24\manual\mod
257   C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\1041_JPN_LP\x64
258   C:\Program Files\Common Files\Microsoft Shared\ink\lv-LV
259   C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-09-16-20-44-23\manual
260   C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\1033_ENU_LP\x64\1033
261   C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-09-16-20-44-23\conf\original\extra
262   C:\Program Files\Common Files\Microsoft Shared\ink\fsdefinitions\auxpad
263   C:\Program Files\Common Files\Microsoft Shared\TextConv
264   C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-09-16-20-44-23\manual\developer
```

```
265   C:\Program Files\Common Files\Microsoft Shared\MSInfo\en-US
266   C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\3082_ESN_LP\x64\3082
267   C:\Program Files\Common Files\Microsoft Shared\ink\nl-NL
268   C:\Program Files\Tanium
269   C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-11-17-11-17-33\manual\howto
270   C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-11-17-11-17-33\include
271   C:\Program Files\Reference Assemblies\Microsoft\Framework\v3.5\RedistList
272   C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\Log\20140910_112532\Datastore_LandingPage
273   C:\Program Files\Microsoft SQL Server\100\KeyFile\1033
274   C:\Program Files\Microsoft SQL Server\110\Tools\Binn\Resources\1033
275   C:\Program Files\Tanium\Tanium Server\Downloads\Cache
276   C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-11-17-11-17-33\manual\style\latex
277   C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\3082_ESN_LP
278   C:\Program Files\Tanium\Tanium Server\php55\dev
279   C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-11-17-11-17-33\bin\iconv
280   C:\Program Files\VMware\VMware Tools\messages\zh_CN
281   C:\Program Files\Tanium\Tanium Server\Apache24\manual\vhosts
282   C:\Program Files\Common Files\VMware\Drivers\vmci\sockets
283   C:\Program Files\Microsoft SQL Server\90\Shared\Resources\1033
284   C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-09-16-20-44-23\conf
285   C:\Program Files\Common Files\VMware
286   C:\Program Files\Common Files\System\msadc
287   C:\Program Files\Microsoft SQL Server\110\Tools
288   C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-11-17-11-17-33\htdocs\php
289   C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\1040_ITA_LP
290   C:\Program Files\Common Files\Microsoft Shared\ink\fr-FR
291   C:\Program Files\Common Files\VMware\Drivers\vss
292   C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-11-17-11-17-33\bin
293   C:\Program Files\Common Files\Microsoft Shared\ink\tr-TR
294   C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-11-17-11-17-33\manual\programs
295   C:\Program Files\Common Files\Microsoft Shared\VC
296   C:\Program Files\Tanium\Tanium Server\php55\ext
297   C:\Program Files\Common Files\Microsoft Shared\WF
298   C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-09-16-20-44-23\manual\ssl
299   C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-11-17-11-17-33\htdocs
300   C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-11-17-11-17-33\htdocs\console
301   C:\Program Files\Microsoft SQL Server\MSSQL11.SQLEXPRESS\MSSQL\Binn\Templates
302   C:\Program Files\Tanium\Tanium Server\plugins
303   C:\Program Files\Tanium\Tanium Server\Apache24\icons\small
304   C:\Program Files\Microsoft SQL Server\110\Shared\en
305   C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-09-16-20-44-23\htdocs\php\Auth
306   C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-09-16-20-44-23\error\include
307   C:\Program Files\Microsoft SQL Server\100\Setup Bootstrap\Release\x64\Help
308   C:\Program Files\Microsoft Help Viewer\v1.0\Microsoft Help Viewer 1.1
309   C:\Program Files\Microsoft SQL Server\110\Tools\Binn\ManagementStudio
310   C:\Program Files\Common Files\Microsoft Shared\ink\fsdefinitions\symbols
311   C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\1036_FRA_LP\x64\1036\help
312   C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-11-17-11-17-33\manual
313   C:\Program Files\Common Files\System\Ole DB\en-US
314   C:\Program Files\Microsoft SQL Server\110\Tools\Binn\ManagementStudio\Extensions
315   C:\Program Files\Microsoft SQL Server\80\Tools\Binn
316   C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\2052_CHS_LP
317   C:\Program Files\Common Files\Microsoft Shared\ink\lt-LT
318   C:\Program Files\Microsoft SQL Server\MSSQL11.SQLEXPRESS\MSSQL\Binn
319   C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\x64
320   C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-09-16-20-44-23\htdocs
321   C:\Program Files\Microsoft SQL Server\100\KeyFile
322   C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-11-17-11-17-33\manual\style
```

```
323  C:\Program Files\Microsoft SQL Server\MSSQL11.SQLEXPRESS\MSSQL\Install
324  C:\Program Files\Common Files\Microsoft Shared\ink\et-EE
325  C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\1028_CHT_LP
326  C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\1040_ITA_LP\x64\1040
327  C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\1028_CHT_LP\x64
328  C:\Program Files\Common Files\VMware\Drivers\Virtual Printer\TPOGPS
329  C:\Program Files\Common Files\Microsoft Shared\ink\cs-CZ
330  C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\2052_CHS_LP\x64\2052\help
331  C:\Program Files\VMware
332  C:\Program Files\Microsoft SQL Server\110\Shared\VS2008
333  C:\Program Files\Microsoft Visual Studio 10.0\Common7\Packages\Debugger
334  C:\Program Files\Common Files\VMware\Drivers\mouse
335  C:\Program Files\Common Files\VMware\Drivers\vmci\sockets\bin
336  C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-09-16-20-44-23\bin\iconv
337  C:\Program Files\Common Files\Microsoft Shared\ink\en-US
338  C:\Program Files\Microsoft SQL Server\MSSQL11.SQLEXPRESS\MSSQL\Backup
339  C:\Program Files\Tanium\Tanium Server\VB
340  C:\Program Files\Microsoft SQL Server\110\DTS\ForEachEnumerators\Resources\1033
341  C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-11-17-11-17-33\manual\vhosts
342  C:\Program Files\Common Files\Microsoft Shared\ink\bg-BG
343  C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-11-17-11-17-33\manual\ssl
344  C:\Program Files\Tanium\Tanium Server\Apache24\bin
345  C:\Program Files\Common Files\System\Ole DB
346  C:\Program Files\Tanium\Tanium Server\Apache24\manual\faq
347  C:\Program Files\Microsoft SQL Server\MSSQL11.SQLEXPRESS
348  C:\Program Files\Common Files\VMware\Drivers\audio
349  C:\Program Files\Microsoft SQL Server\110\DTS\Binn\Resources
350  C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\1041_JPN_LP\x64\1041
351  C:\Program Files\Reference Assemblies\Microsoft\Framework\v3.0\RedistList
352  C:\Program Files\Tanium\Tanium Server\Downloads
353  C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\1049_RUS_LP\x64\1049\help
354  C:\Program Files\Microsoft Visual Studio 10.0\Common7\Packages\Debugger\x86
355  C:\Program Files\Microsoft Visual Studio 10.0\Common7\Packages\Debugger\X64
356  C:\Program Files\MSBuild\Microsoft\Windows Workflow Foundation
357  C:\Program Files\Microsoft SQL Server\100\Shared
358  C:\Program Files\Internet Explorer\SIGNUP
359  C:\Program Files\Common Files\Microsoft Shared\ink\es-ES
360  C:\Program Files\Tanium\Tanium Server\Support
361  C:\Program Files\Microsoft SQL Server\110\DTS\Binn
362  C:\Program Files\Common Files\Microsoft Shared\MSInfo
363  C:\Program Files\Reference Assemblies
364  C:\Program Files\Microsoft SQL Server\110\Shared\RsFxInstall
365  C:\Program Files\Microsoft Help Viewer\v1.0\CatalogInfo
366  C:\Program Files\Microsoft SQL Server\110\DTS\MappingFiles
367  C:\Program Files\Microsoft SQL Server\110\DTS\PipelineComponents\Resources
368  C:\Program Files\Common Files\Microsoft Shared\WF\amd64
369  C:\Program Files\Tanium\Tanium Server\plugins\console\SigVerifier
370  C:\Program Files\Tanium\Tanium Server\plugins\console\DashboardGroups
371  C:\Program Files\Microsoft SQL Server\80\Tools
372  C:\Program Files\Microsoft SQL Server\MSSQL11.SQLEXPRESS\MSSQL\Template Data
373  C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-09-16-20-44-23\icons
374  C:\Program Files\Common Files\Microsoft Shared\ink\de-DE
375  C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\1031_DEU_LP\x64\1031
376  C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\1042_KOR_LP
377  C:\Program Files\Microsoft Visual Studio 10.0\Common7\IDE
378  C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\1033_ENU_LP\x64\1033\help
379  C:\Program Files\Common Files\Microsoft Shared\ink\fsdefinitions\main
380  C:\Program Files\Microsoft Help Viewer\v1.0\StopWords
```

```
381   C:\Program Files\Microsoft SQL Server\110\Tools\Binn\ManagementStudio\Extensions\Application
382   C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap
383   C:\Program Files\Microsoft SQL Server\MSSQL11.SQLEXPRESS\MSSQL\repldata
384   C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\x64\zh-CHT
385   C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\x64\zh-CHS
386   C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-09-16-20-44-23\manual\vhosts
387   C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\1042_KOR_LP\x64\1042\help
388   C:\Program Files\Microsoft SQL Server\110\DTS\Tasks\en
389   C:\Program Files\Common Files\SpeechEngines
390   C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-09-16-20-44-23\logs
391   C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-09-16-20-44-23\manual\mod
392   C:\Program Files\VMware\VMware Tools\Drivers\hgfs
393   C:\Program Files\Tanium\Tanium Server\Apache24\conf\original
394   C:\Program Files\Uninstall Information
395   C:\Program Files\Reference Assemblies\Microsoft\Framework\v3.5
396   C:\Program Files\Reference Assemblies\Microsoft\Framework\v3.0
397   C:\Program Files\Microsoft Visual Studio 10.0\Common7\IDE\Xml
398   C:\Program Files\Microsoft SQL Server\110\DTS\PipelineComponents
399   C:\Program Files\Microsoft SQL Server\90\Shared\Resources
400   C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\1046_PTB_LP\x64\1046\help
401   C:\Program Files\Tanium\Tanium Server\Apache24\include
402   C:\Program Files\Tanium\Tanium Server\plugins\console\GroupFiliters
403   C:\Program Files\VMware\VMware Tools\Drivers
404   C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\1041_JPN_LP\x64\1041\help
405   C:\Program Files\Tanium\Tanium Server\Downloads\tmp
406   C:\Program Files\Microsoft SQL Server\100\Setup Bootstrap\Release
407   C:\Program Files\Tanium\Tanium Server\Apache24\conf\original\extra
408   C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-11-17-11-17-33\manual\style\scripts
409   C:\Program Files\Common Files\Microsoft Shared\ink\sr-Latn-CS
410   C:\Program Files\Common Files\Microsoft Shared\ink\fsdefinitions\osknumpad
411   C:\Program Files\Microsoft SQL Server\110\License Terms
412   C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012
413   C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\1031_DEU_LP\x64
414   C:\Program Files\Common Files\VMware\Drivers\vmxnet
415   C:\Program Files\Tanium\Tanium Server\Strings
416   C:\Program Files\MSBuild
417   C:\Program Files\Microsoft SQL Server\110\COM\Resources
418   C:\Program Files\Common Files\VMware\Drivers\Virtual Printer\TPOGPS\amd64
419   C:\Program Files\Microsoft SQL Server\80\COM
420   C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-09-16-20-44-23\htdocs\console\history
421   C:\Program Files\Tanium\Tanium Server\Apache24\manual\howto
422   C:\Program Files\Microsoft SQL Server\110\Shared\Resources\1033
423   C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-09-16-20-44-23\conf\extra
424   C:\Program Files\Common Files\Microsoft Shared\MSEnv
425   C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\2052_CHS_LP\x64\2052
426   C:\Program Files\Common Files\VMware\Drivers\Virtual Printer
427   C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-11-17-11-17-33\htdocs\console\history
428   C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\1028_CHT_LP\x64\1028
429   C:\Program Files\Microsoft SQL Server\110\Shared\VS2008\1033
430   C:\Program Files\Common Files\Microsoft Shared\ink\pt-BR
431   C:\Program Files\Common Files\Microsoft Shared\ink\pt-PT
432   C:\Program Files\Common Files\System\ado
433   C:\Program Files\Microsoft SQL Server\110\KeyFile\1033
434   C:\Program Files\Tanium\Tanium Server\SOAPUpload
435   C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\Resources\2052
436   C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\Log\20140910_112604\resources
437   C:\Program Files\Microsoft SQL Server\MSSQL11.SQLEXPRESS\MSSQL\DATA
438   C:\Program Files\Tanium\Tanium Server\php55\extras\ssl
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```
439  C:\Program Files\Common Files\Microsoft Shared\ink\el-GR
440  C:\Program Files\VMware\VMware Tools\win32
441  C:\Program Files\VMware\VMware Tools\win64
442  C:\Program Files\Microsoft SQL Server\110\Shared\Resources
443  C:\Program Files\Internet Explorer
444  C:\Program Files\Tanium\Tanium Server\Apache24\icons
445  C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\1033_ENU_LP\x64
446  C:\Program Files\Microsoft SQL Server\MSSQL11.SQLEXPRESS\MSSQL
447  C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\1031_DEU_LP
448  C:\Program Files\Tanium\Tanium Server\Apache24\manual\programs
449  C:\Program Files\Common Files\VMware\Drivers\vmxnet3
450  C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\1049_RUS_LP
451  C:\Program Files\VMware\VMware Tools\Drivers\hgfs\wow64
452  C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\Log
453  C:\Program Files\Microsoft SQL Server\90\License Terms\1033
454  C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-11-17-11-17-33\logs
455  C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-11-17-11-17-33\manual\faq
456  C:\Program Files\Tanium\Tanium Server\Suppot_patch1
457  C:\Program Files\Common Files\Microsoft Shared\ink\fsdefinitions\web
458  C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-11-17-11-17-33\cgi-bin
459  C:\Program Files\Tanium\Tanium Server\Apache24\manual\developer
460  C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\Resources\1036
461  C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\Resources\1033
462  C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\Resources\1031
463  C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\Resources\1028
464  C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\Resources\1049
465  C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\Resources\1046
466  C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\Resources\1042
467  C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\Resources\1041
468  C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\Resources\1040
469  C:\Program Files\Microsoft SQL Server\100\Setup Bootstrap\Release\x64
470  C:\Program Files\Tanium\Tanium Server\Apache24\manual\style\latex
471  C:\Program Files\Tanium\Tanium Server
472  C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-09-16-20-44-23\htdocs\console
473  C:\Program Files\Tanium\Tanium Server\http
474  C:\Program Files\Common Files\Microsoft Shared\ink\ja-JP
475  C:\Program Files\Microsoft SQL Server\110\DTS\Packages
476  C:\Program Files\Common Files\Microsoft Shared\ink\sk-SK
477  C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-11-17-11-17-33\manual\style\css
478  C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-11-17-11-17-33\conf\original
479  C:\Program Files\Tanium\Tanium Server\Apache24\htdocs\php
480  C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-09-16-20-44-23\manual\howto
481  C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-09-16-20-44-23\manual\style\latex
482  C:\Program Files\Common Files\Microsoft Shared\ink\hr-HR
483  C:\Program Files\Common Files\VMware\Drivers
484  C:\Program Files\Tanium\Tanium Server\Apache24\lib
485  C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\Log\20140910_112532
486  C:\Program Files\Microsoft Help Viewer\v1.0
487  C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-11-17-11-17-33\conf\extra
488  C:\Program Files\Tanium\Tanium Server\Apache24
489  C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-09-16-20-44-23\manual\style\scripts
490  C:\Program Files\Common Files\Microsoft Shared\VGX
491  C:\Program Files\Microsoft SQL Server\110\DTS\ProviderDescriptors
492  C:\Program Files\Microsoft SQL Server\110\COM\en
493  C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-09-16-20-44-23\manual\faq
494  C:\Program Files\Tanium\Tanium Server\Apache24\manual\style\scripts
495  C:\Program Files\Common Files\Microsoft Shared\Triedit\en-US
496  C:\Program Files\Microsoft SQL Server\100\Setup Bootstrap\Release\x64\Help\1033
```

```
497  C:\Program Files\Microsoft SQL Server\110\COM
498  C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\1046_PTB_LP\x64
499  C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\Log\20140910_112831\Datastore_GlobalRules
500  C:\Program Files\Common Files\Microsoft Shared\TextConv\en-US
501  C:\Program Files\VMware\VMware Tools\plugins
502  C:\Program Files\Microsoft SQL Server\110\DTS
503  C:\Program Files\Tanium\Tanium Server\plugins\console\SavedQuestions
504  C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-11-17-11-17-33\error\include
505  C:\Program Files\Common Files\System\ado\en-US
506  C:\Program Files\Tanium\Tanium Server\Apache24\cgi-bin
507  C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\Log\20140910_112604
508  C:\Program Files\VMware\VMware Tools\plugins\vmusr
509  C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\Log\20140910_112831\Datastore
510  C:\Program Files\Microsoft SQL Server\MSSQL11.SQLEXPRESS\MSSQL\Binn\DllTmp64
511  C:\Program Files\Microsoft SQL Server\MSSQL11.SQLEXPRESS\MSSQL\Binn\DllTmp32
512  C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-09-16-20-44-23\manual\programs
513  C:\Program Files\Microsoft SQL Server\110\Tools\Binn\Resources
514  C:\Program Files\Tanium\Tanium Server\php55
515  C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-09-16-20-44-23\manual\style
516  C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\1040_ITA_LP\x64
517  C:\Program Files\Reference Assemblies\Microsoft
518  C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-09-16-20-44-23\include
519  C:\Program Files\Tanium\Tanium Server\Apache24\manual\images
520  C:\Program Files\Common Files\Microsoft Shared\ink\fsdefinitions
521  C:\Program Files\Microsoft SQL Server\110\SDK\Assemblies\en
522  C:\Program Files\Tanium\Tanium Server\Logs
523  C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-11-17-11-17-33\manual\mod
524  C:\Program Files\Common Files\VMware\Drivers\Virtual Printer\TPOG3
525  C:\Program Files\Microsoft SQL Server\110
526  C:\Program Files\Microsoft SQL Server\100
527  C:\Program Files\Tanium\Tanium Server\Apache24\modules
528  C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-11-17-11-17-33\manual\platform
529  C:\Program Files\Microsoft Visual Studio 10.0
530  C:\Program Files\Microsoft SQL Server\MSSQL11.SQLEXPRESS\MSSQL\Binn\Resources\3082
531  C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\Log\20140910_112831
532  C:\Program Files\VMware\VMware Tools\plugins\common
533  C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\Log\20140910_112804
534  C:\Program Files\Common Files\Microsoft Shared\ink\th-TH
535  C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-11-17-11-17-33\icons
536  C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\Log\20140910_112831\Datastore_ComponentUpd
537  C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-11-17-11-17-33\error
538  C:\Program Files\Microsoft SQL Server
539  C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-09-16-20-44-23\error
540  C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\3082_ESN_LP\x64
541  C:\Program Files\Common Files\Microsoft Shared\SQL Debugging
542  C:\Program Files\Tanium\Tanium Server\Apache24\error\include
543  C:\Program Files\Microsoft SQL Server\110\SDK\Assemblies
544  C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\x64\Patch
545  C:\Program Files\Microsoft Help Viewer\v1.0\en
546  C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\3082_ESN_LP\x64\3082\help
547  C:\Program Files\Microsoft SQL Server\90\Shared
548  C:\Program Files\Microsoft SQL Server\MSSQL11.SQLEXPRESS\MSSQL\Binn\Resources\2052
549  C:\Program Files\Microsoft SQL Server\MSSQL11.SQLEXPRESS\MSSQL\Binn\Resources\2070
550  C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-11-17-11-17-33\conf\original\extra
551  C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-11-17-11-17-33\manual\developer
552  C:\Program Files\Common Files\Microsoft Shared\ink\pl-PL
553  C:\Program Files\Common Files\SpeechEngines\Microsoft\TTS20\en-US\enu-dsk
554  C:\Program Files\Common Files\Microsoft Shared\Stationery
```

```
555   C:\Program Files\Common Files\Microsoft Shared\VS7Debug\1033
556   C:\Program Files\Microsoft SQL Server\100\Setup Bootstrap\Bin
557   C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\Resources
558   C:\Program Files\Microsoft SQL Server\110\Shared\ErrorDumps
559   C:\Program Files\Internet Explorer\en-US
560   C:\Program Files\VMware\VMware Tools\messages\it
561   C:\Program Files\VMware\VMware Tools\messages\ja
562   C:\Program Files\VMware\VMware Tools\messages\ko
563   C:\Program Files\VMware\VMware Tools\messages\de
564   C:\Program Files\VMware\VMware Tools\messages\es
565   C:\Program Files\VMware\VMware Tools\messages\fr
566   C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\1036_FRA_LP
567   C:\Program Files\Microsoft SQL Server\110\DTS\Tasks","0.0.0.0
568   0.0.0.0
569   0.0.0.0
570   172.16.31.2
571   0.0.0.0","172.16.31.128
572   fe80::5968:4e9d:b4fc:88ef","-
573   -
574   -
575   -
576   -","255.255.255.255
577   255.255.255.0
578   255.255.255.255
579   0.0.0.0
580   255.0.0.0","266
581   266
582   306
583   266
584   306"
```

Export resultset csv sensor false

Export a ResultSet from asking a question as CSV with false for header_add_sensor

Example Python Code

```python
1    # Path to lib directory which contains pytan package
2    PYTAN_LIB_PATH = '../lib'
3
4    # connection info for Tanium Server
5    USERNAME = "Tanium User"
6    PASSWORD = "T@n!um"
7    HOST = "172.16.31.128"
8    PORT = "444"
9
10   # Logging conrols
11   LOGLEVEL = 2
12   DEBUGFORMAT = False
13
14   import sys, tempfile
15   sys.path.append(PYTAN_LIB_PATH)
16
17   import pytan
18   handler = pytan.Handler(
```

```
19        username=USERNAME,
20        password=PASSWORD,
21        host=HOST,
22        port=PORT,
23        loglevel=LOGLEVEL,
24        debugformat=DEBUGFORMAT,
25    )
26
27    print handler
28
29    # setup the export_obj kwargs for later
30    export_kwargs = {}
31    export_kwargs["export_format"] = u'csv'
32    export_kwargs["header_add_sensor"] = False
33
34    # ask the question that will provide the resultset that we want to use
35    ask_kwargs = {
36        'qtype': 'manual_human',
37        'sensors': [
38            "Computer Name", "IP Route Details", "IP Address",
39            'Folder Name Search with RegEx Match{dirname=Program Files,regex=.*Shared.*}',
40        ],
41    }
42    response = handler.ask(**ask_kwargs)
43
44    # export the object to a string
45    # (we could just as easily export to a file using export_to_report_file)
46    export_kwargs['obj'] = response['question_results']
47    export_str = handler.export_obj(**export_kwargs)
48
49
50    print ""
51    print "print the export_str returned from export_obj():"
52    print export_str
```

Output from Python Code

```
1    Handler for Session to 172.16.31.128:444, Authenticated: True, Version: 6.2.314.3258
2    2014-12-07 01:23:22,675 INFO     question_progress: Results 0% (Get Computer Name and IP Route Detai
3    2014-12-07 01:23:27,701 INFO     question_progress: Results 0% (Get Computer Name and IP Route Detai
4    2014-12-07 01:23:32,725 INFO     question_progress: Results 0% (Get Computer Name and IP Route Detai
5    2014-12-07 01:23:37,753 INFO     question_progress: Results 0% (Get Computer Name and IP Route Detai
6    2014-12-07 01:23:42,781 INFO     question_progress: Results 0% (Get Computer Name and IP Route Detai
7    2014-12-07 01:23:47,806 INFO     question_progress: Results 50% (Get Computer Name and IP Route Deta
8    2014-12-07 01:23:52,840 INFO     question_progress: Results 100% (Get Computer Name and IP Route Det
9
10   print the export_str returned from export_obj():
11   Computer Name,Destination,Flags,"Folder Name Search with RegEx Match[No, Program Files, No, ]",Gatew
12   Casus-Belli.local,"default
13   192.168.0
14   169.254
15   172.16.31/24
16   192.168.0.1/32
17   172.16.152/24
18   192.168.0.3/32","UGSc
19   UCS
20   UCS
```

```
21  UC
22  UCS
23  UC
24  UCS",Windows Only,"192.168.0.1
25  link#4
26  link#4
27  link#13
28  link#4
29  link#12
30  link#4","fe80::e896:c1c9:d927:bbe0
31  2604:2000:69e6:1a00:82e6:50ff:fe1d:1dca
32  172.16.31.1
33  fe80::82e6:50ff:fe1d:1dca
34  172.16.152.1
35  192.168.0.3
36  fe80::2886:21ff:fe7f:3ef4
37  2604:2000:69e6:1a00:95ad:5fe5:cf9e:5403
38  fd1b:56a6:50eb:cd49:e896:c1c9:d927:bbe0","en0
39  en0
40  en0
41  vmnet8
42  en0
43  vmnet1
44  en0","None
45  None
46  None
47  None
48  None
49  None
50  None","None
51  None
52  None
53  None
54  None
55  None
56  None"
57  jtanium1.localdomain,"172.16.31.128
58  172.16.31.0
59  127.0.0.1
60  0.0.0.0
61  127.0.0.0","-
62  -
63  -
64  -
65  -","C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-09-16-20-44-23\cgi-bin
66  C:\Program Files\VMware\VMware Tools\plugins\vmsvc
67  C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\1040_ITA_LP\x64\1040\help
68  C:\Program Files\Common Files\Microsoft Shared\VS7Debug
69  C:\Program Files\Tanium\Tanium Server\Apache24\manual\style
70  C:\Program Files\Tanium\Tanium Server\Apache24\htdocs\console\history
71  C:\Program Files\Common Files\VMware\Drivers\vmci\sockets\include
72  C:\Program Files\Common Files\Microsoft Shared\ink\ar-SA
73  C:\Program Files\Tanium\Tanium Server\plugins\console\Dashboards
74  C:\Program Files\Tanium\Tanium Server\CertificateBackup2014-11-17-11-17-33
75  C:\Program Files\Common Files\SpeechEngines\Microsoft
76  C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-09-16-20-44-23\modules
77  C:\Program Files\Common Files\Microsoft Shared\ink\ru-RU
78  C:\Program Files\Microsoft SQL Server\110\DTS\ForEachEnumerators\en
```

```
79   C:\Program Files\Tanium\Tanium Server\Apache24\htdocs\php\Auth
80   C:\Program Files\MSBuild\Microsoft\Windows Workflow Foundation\v3.0
81   C:\Program Files\MSBuild\Microsoft\Windows Workflow Foundation\v3.5
82   C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\2052_CHS_LP\x64
83   C:\Program Files\Common Files\Microsoft Shared\ink\fsdefinitions\keypad
84   C:\Program Files\Tanium\Tanium Server\plugins\console\InstallPlugin
85   C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\Log\20140910_112831\resources
86   C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\Bin
87   C:\Program Files\Microsoft SQL Server\110\DTS\ForEachEnumerators
88   C:\Program Files\Tanium\Tanium Server\Apache24\conf
89   C:\Program Files\MSBuild\Microsoft
90   C:\Program Files\Microsoft SQL Server\110\DTS\UpgradeMappings
91   C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-11-17-11-17-33\htdocs\php\Auth
92   C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-09-16-20-44-23\manual\style\css
93   C:\Program Files\Common Files\Microsoft Shared\ink
94   C:\Program Files\Common Files\Microsoft Shared\ink\sv-SE
95   C:\Program Files\VMware\VMware Tools\messages
96   C:\Program Files\Microsoft SQL Server\110\DTS\ForEachEnumerators\Resources
97   C:\Program Files\Common Files\Microsoft Shared\ink\uk-UA
98   C:\Program Files\Microsoft SQL Server\110\DTS\Binn\Resources\1033
99   C:\Program Files\Tanium\Tanium Server\Apache24\manual\platform
100  C:\Program Files\Microsoft SQL Server\110\KeyFile
101  C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\Resources\3082
102  C:\Program Files\Tanium\Tanium Server\CertificateBackup2014-09-16-20-44-23
103  C:\Program Files\Microsoft SQL Server\100\Setup Bootstrap\Release\x64\1033
104  C:\Program Files\Microsoft.NET\ADOMD.NET
105  C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\1028_CHT_LP\x64\1028\help
106  C:\Program Files\Common Files\Microsoft Shared\ink\sl-SI
107  C:\Program Files\Tanium\Tanium Server\plugins\console\UserGroups
108  C:\Program Files\Common Files\Microsoft Shared\ink\hu-HU
109  C:\Program Files\Common Files\System\en-US
110  C:\Program Files\Common Files\Microsoft Shared\ink\zh-TW
111  C:\Program Files\Common Files\Microsoft Shared\ink\zh-CN
112  C:\Program Files\Common Files\VMware\Drivers\video_wddm
113  C:\Program Files\Common Files\Microsoft Shared\ink\fi-FI
114  C:\Program Files\Common Files\Microsoft Shared
115  C:\Program Files\Microsoft SQL Server\110\SDK\Include
116  C:\Program Files\Common Files\Microsoft Shared\ink\da-DK
117  C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-09-16-20-44-23\icons\small
118  C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-11-17-11-17-33
119  C:\Program Files\Microsoft Visual Studio 10.0\Common7\IDE\PrivateAssemblies
120  C:\Program Files\Microsoft SQL Server\80
121  C:\Program Files\Microsoft SQL Server\90
122  C:\Program Files\Windows Mail
123  C:\Program Files\Common Files\VMware\Drivers\vmci\sockets\bin\win64
124  C:\Program Files\Common Files\VMware\Drivers\vmci\sockets\bin\win32
125  C:\Program Files\Common Files\Microsoft Shared\ink\fsdefinitions\oskmenu
126  C:\Program Files\Microsoft SQL Server\110\DTS\LogProviders
127  C:\Program Files\Microsoft SQL Server\100\Setup Bootstrap\Release\Resources\1033
128  C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\1049_RUS_LP\x64\1049
129  C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\Log\20140910_112604\Datastore_GlobalRules
130  C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-09-16-20-44-23\manual\images
131  C:\Program Files\Microsoft SQL Server\110\SDK
132  C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\1036_FRA_LP\x64
133  C:\Program Files\Windows NT\Accessories
134  C:\Program Files\Tanium\Tanium Server\content_public_keys
135  C:\Program Files\Windows NT\TableTextService\en-US
136  C:\Program Files\Tanium\Tanium Server\plugins\console\Manifest
```

```
137   C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-09-16-20-44-23\bin
138   C:\Program Files\Tanium\Tanium Server\Apache24\logs
139   C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\1033_ENU_LP
140   C:\Program Files\Tanium\Tanium Server\plugins\content
141   C:\Program Files\Reference Assemblies\Microsoft\Framework
142   C:\Program Files\Microsoft SQL Server\110\DTS\Connections\en
143   C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-11-17-11-17-33\icons\small
144   C:\Program Files\Common Files\VMware\Drivers\Virtual Printer\TPOG3\amd64
145   C:\Program Files\Microsoft Visual Studio 10.0\Common7\IDE\PrivateAssemblies\1033
146   C:\Program Files\Common Files\Microsoft Shared\ink\ko-KR
147   C:\Program Files\Tanium\Tanium Server\Apache24\manual\ssl
148   C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\1042_KOR_LP\x64
149   C:\Program Files\Tanium\Tanium Server\Apache24\manual\style\css
150   C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-11-17-11-17-33\manual\misc
151   C:\Program Files\Microsoft SQL Server\110\SDK\Lib\x64
152   C:\Program Files\Microsoft SQL Server\110\SDK\Lib\x86
153   C:\Program Files\Tanium\Tanium Server\plugins\console\lib
154   C:\Program Files\Common Files\Microsoft Shared\ink\it-IT
155   C:\Program Files\Microsoft.NET
156   C:\Program Files\Microsoft SQL Server\110\DTS\DataDumps
157   C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-11-17-11-17-33\conf
158   C:\Program Files\Internet Explorer\images
159   C:\Program Files\Windows NT
160   C:\Program Files\Microsoft SQL Server\110\COM\Resources\1033
161   C:\Program Files\Microsoft SQL Server\MSSQL11.SQLEXPRESS\MSSQL\JOBS
162   C:\Program Files\Tanium\Tanium Server\Apache24\htdocs
163   C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\1041_JPN_LP
164   C:\Program Files\Tanium\Tanium Server\php55\extras
165   C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\1031_DEU_LP\x64\1031\help
166   C:\Program Files\Microsoft SQL Server\100\Setup Bootstrap
167   C:\Program Files\Common Files\SpeechEngines\Microsoft\TTS20
168   C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-09-16-20-44-23
169   C:\Program Files\Common Files\Microsoft Shared\Triedit
170   C:\Program Files\Microsoft.NET\ADOMD.NET\110
171   C:\Program Files\Microsoft SQL Server\110\Shared
172   C:\Program Files\Microsoft SQL Server\110\Tools\Binn
173   C:\Program Files\Microsoft Help Viewer
174   C:\Program Files\Microsoft SQL Server\100\Setup Bootstrap\Release\x64\Patch
175   C:\Program Files\Tanium\Tanium Server\Apache24\bin\iconv
176   C:\Program Files\Common Files\VMware\Drivers\memctl
177   C:\Program Files\Tanium\Tanium Server\plugins\console
178   C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-09-16-20-44-23\conf\original
179   C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-09-16-20-44-23\htdocs\php
180   C:\Program Files\Microsoft SQL Server\90\License Terms
181   C:\Program Files\Microsoft SQL Server\100\Setup Bootstrap\Release\Resources
182   C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\x64\pt
183   C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\x64\ru
184   C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-11-17-11-17-33\lib
185   C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\x64\it
186   C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\x64\ko
187   C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\x64\ja
188   C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\x64\es
189   C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\x64\de
190   C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\x64\fr
191   C:\Program Files\Common Files\Microsoft Shared\ink\he-IL
192   C:\Program Files\Common Files\Microsoft Shared\ink\ro-RO
193   C:\Program Files\Common Files\VMware\Drivers\pvscsi
194   C:\Program Files\Microsoft Visual Studio 10.0\Common7\Packages
```

```
195   C:\Program Files\Microsoft Visual Studio 10.0\Common7
196   C:\Program Files\Common Files\Services
197   C:\Program Files\Common Files\Microsoft Shared\ink\fsdefinitions\oskpred
198   C:\Program Files\Microsoft SQL Server\110\SDK\Lib
199   C:\Program Files\Microsoft SQL Server\110\DTS\PipelineComponents\Resources\1033
200   C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-09-16-20-44-23\manual\misc
201   C:\Program Files\Tanium\Tanium Server\Apache24\manual\misc
202   C:\Program Files\Common Files\SpeechEngines\Microsoft\TTS20\en-US
203   C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-11-17-11-17-33\modules
204   C:\Program Files\Microsoft SQL Server\110\DTS\Connections
205   C:\Program Files\Tanium\Tanium Server\Downloads\URLCache
206   C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\1046_PTB_LP
207   C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-09-16-20-44-23\manual\rewrite
208   C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-11-17-11-17-33\manual\images
209   C:\Program Files\Common Files\VMware\Drivers\vmci\device
210   C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-11-17-11-17-33\manual\rewrite
211   C:\Program Files\Common Files
212   C:\Program Files\Tanium\Tanium Server\Apache24\manual
213   C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-09-16-20-44-23\manual\platform
214   C:\Program Files\Tanium\Tanium Server\Apache24\conf\extra
215   C:\Program Files\Common Files\VMware\Drivers\vmci
216   C:\Program Files\Common Files\System\msadc\en-US
217   C:\Program Files\Common Files\System
218   C:\Program Files\Windows NT\Accessories\en-US
219   C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\1036_FRA_LP\x64\1036
220   C:\Program Files\Microsoft SQL Server\MSSQL11.SQLEXPRESS\MSSQL\Binn\Resources
221   C:\Program Files\Tanium\Tanium Server\plugins\console\RegistrySetting
222   C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\1046_PTB_LP\x64\1046
223   C:\Program Files\Tanium\Tanium Server\Apache24\manual\rewrite
224   C:\Program Files\VMware\VMware Tools
225   C:\Program Files\Common Files\Microsoft Shared\ink\fsdefinitions\numbers
226   C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\1049_RUS_LP\x64
227   C:\Program Files\Microsoft SQL Server\MSSQL11.SQLEXPRESS\MSSQL\Log
228   C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-09-16-20-44-23\lib
229   C:\Program Files\Windows NT\TableTextService
230   C:\Program Files\Microsoft SQL Server\MSSQL11.SQLEXPRESS\MSSQL\Binn\Resources\1055
231   C:\Program Files\Microsoft SQL Server\MSSQL11.SQLEXPRESS\MSSQL\Binn\Resources\1053
232   C:\Program Files\Microsoft SQL Server\MSSQL11.SQLEXPRESS\MSSQL\Binn\Resources\1049
233   C:\Program Files\Microsoft SQL Server\MSSQL11.SQLEXPRESS\MSSQL\Binn\Resources\1041
234   C:\Program Files\Microsoft SQL Server\MSSQL11.SQLEXPRESS\MSSQL\Binn\Resources\1040
235   C:\Program Files\Microsoft SQL Server\MSSQL11.SQLEXPRESS\MSSQL\Binn\Resources\1043
236   C:\Program Files\Microsoft SQL Server\MSSQL11.SQLEXPRESS\MSSQL\Binn\Resources\1042
237   C:\Program Files\Microsoft SQL Server\MSSQL11.SQLEXPRESS\MSSQL\Binn\Resources\1045
238   C:\Program Files\Microsoft SQL Server\MSSQL11.SQLEXPRESS\MSSQL\Binn\Resources\1044
239   C:\Program Files\Microsoft SQL Server\MSSQL11.SQLEXPRESS\MSSQL\Binn\Resources\1046
240   C:\Program Files\Microsoft SQL Server\MSSQL11.SQLEXPRESS\MSSQL\Binn\Resources\1038
241   C:\Program Files\Microsoft SQL Server\MSSQL11.SQLEXPRESS\MSSQL\Binn\Resources\1035
242   C:\Program Files\Microsoft SQL Server\MSSQL11.SQLEXPRESS\MSSQL\Binn\Resources\1036
243   C:\Program Files\Microsoft SQL Server\MSSQL11.SQLEXPRESS\MSSQL\Binn\Resources\1030
244   C:\Program Files\Microsoft SQL Server\MSSQL11.SQLEXPRESS\MSSQL\Binn\Resources\1031
245   C:\Program Files\Microsoft SQL Server\MSSQL11.SQLEXPRESS\MSSQL\Binn\Resources\1032
246   C:\Program Files\Microsoft SQL Server\MSSQL11.SQLEXPRESS\MSSQL\Binn\Resources\1033
247   C:\Program Files\Microsoft SQL Server\MSSQL11.SQLEXPRESS\MSSQL\Binn\Resources\1029
248   C:\Program Files\Microsoft SQL Server\MSSQL11.SQLEXPRESS\MSSQL\Binn\Resources\1028
249   C:\Program Files\Tanium\Tanium Server\Apache24\htdocs\console
250   C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\1042_KOR_LP\x64\1042
251   C:\Program Files\Tanium\Tanium Server\Apache24\error
252   C:\Program Files\Common Files\Microsoft Shared\ink\nb-NO
```

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253  C:\Program Files\Tanium\Tanium Server\Apache24\manual\mod
254  C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\1041_JPN_LP\x64
255  C:\Program Files\Common Files\Microsoft Shared\ink\lv-LV
256  C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-09-16-20-44-23\manual
257  C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\1033_ENU_LP\x64\1033
258  C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-09-16-20-44-23\conf\original\extra
259  C:\Program Files\Common Files\Microsoft Shared\ink\fsdefinitions\auxpad
260  C:\Program Files\Common Files\Microsoft Shared\TextConv
261  C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-09-16-20-44-23\manual\developer
262  C:\Program Files\Common Files\Microsoft Shared\MSInfo\en-US
263  C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\3082_ESN_LP\x64\3082
264  C:\Program Files\Common Files\Microsoft Shared\ink\nl-NL
265  C:\Program Files\Tanium
266  C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-11-17-11-17-33\manual\howto
267  C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-11-17-11-17-33\include
268  C:\Program Files\Reference Assemblies\Microsoft\Framework\v3.5\RedistList
269  C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\Log\20140910_112532\Datastore_LandingPage
270  C:\Program Files\Microsoft SQL Server\100\KeyFile\1033
271  C:\Program Files\Microsoft SQL Server\110\Tools\Binn\Resources\1033
272  C:\Program Files\Tanium\Tanium Server\Downloads\Cache
273  C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-11-17-11-17-33\manual\style\latex
274  C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\3082_ESN_LP
275  C:\Program Files\Tanium\Tanium Server\php55\dev
276  C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-11-17-11-17-33\bin\iconv
277  C:\Program Files\VMware\VMware Tools\messages\zh_CN
278  C:\Program Files\Tanium\Tanium Server\Apache24\manual\vhosts
279  C:\Program Files\Common Files\VMware\Drivers\vmci\sockets
280  C:\Program Files\Microsoft SQL Server\90\Shared\Resources\1033
281  C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-09-16-20-44-23\conf
282  C:\Program Files\Common Files\VMware
283  C:\Program Files\Common Files\System\msadc
284  C:\Program Files\Microsoft SQL Server\110\Tools
285  C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-11-17-11-17-33\htdocs\php
286  C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\1040_ITA_LP
287  C:\Program Files\Common Files\Microsoft Shared\ink\fr-FR
288  C:\Program Files\Common Files\VMware\Drivers\vss
289  C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-11-17-11-17-33\bin
290  C:\Program Files\Common Files\Microsoft Shared\ink\tr-TR
291  C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-11-17-11-17-33\manual\programs
292  C:\Program Files\Common Files\Microsoft Shared\VC
293  C:\Program Files\Tanium\Tanium Server\php55\ext
294  C:\Program Files\Common Files\Microsoft Shared\WF
295  C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-09-16-20-44-23\manual\ssl
296  C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-11-17-11-17-33\htdocs
297  C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-11-17-11-17-33\htdocs\console
298  C:\Program Files\Microsoft SQL Server\MSSQL11.SQLEXPRESS\MSSQL\Binn\Templates
299  C:\Program Files\Tanium\Tanium Server\plugins
300  C:\Program Files\Tanium\Tanium Server\Apache24\icons\small
301  C:\Program Files\Microsoft SQL Server\110\Shared\en
302  C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-09-16-20-44-23\htdocs\php\Auth
303  C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-09-16-20-44-23\error\include
304  C:\Program Files\Microsoft SQL Server\100\Setup Bootstrap\Release\x64\Help
305  C:\Program Files\Microsoft Help Viewer\v1.0\Microsoft Help Viewer 1.1
306  C:\Program Files\Microsoft SQL Server\110\Tools\Binn\ManagementStudio
307  C:\Program Files\Common Files\Microsoft Shared\ink\fsdefinitions\symbols
308  C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\1036_FRA_LP\x64\1036\help
309  C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-11-17-11-17-33\manual
310  C:\Program Files\Common Files\System\Ole DB\en-US
```

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311   C:\Program Files\Microsoft SQL Server\110\Tools\Binn\ManagementStudio\Extensions
312   C:\Program Files\Microsoft SQL Server\80\Tools\Binn
313   C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\2052_CHS_LP
314   C:\Program Files\Common Files\Microsoft Shared\ink\lt-LT
315   C:\Program Files\Microsoft SQL Server\MSSQL11.SQLEXPRESS\MSSQL\Binn
316   C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\x64
317   C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-09-16-20-44-23\htdocs
318   C:\Program Files\Microsoft SQL Server\100\KeyFile
319   C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-11-17-11-17-33\manual\style
320   C:\Program Files\Microsoft SQL Server\MSSQL11.SQLEXPRESS\MSSQL\Install
321   C:\Program Files\Common Files\Microsoft Shared\ink\et-EE
322   C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\1028_CHT_LP
323   C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\1040_ITA_LP\x64\1040
324   C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\1028_CHT_LP\x64
325   C:\Program Files\Common Files\VMware\Drivers\Virtual Printer\TPOGPS
326   C:\Program Files\Common Files\Microsoft Shared\ink\cs-CZ
327   C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\2052_CHS_LP\x64\2052\help
328   C:\Program Files\VMware
329   C:\Program Files\Microsoft SQL Server\110\Shared\VS2008
330   C:\Program Files\Microsoft Visual Studio 10.0\Common7\Packages\Debugger
331   C:\Program Files\Common Files\VMware\Drivers\mouse
332   C:\Program Files\Common Files\VMware\Drivers\vmci\sockets\bin
333   C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-09-16-20-44-23\bin\iconv
334   C:\Program Files\Common Files\Microsoft Shared\ink\en-US
335   C:\Program Files\Microsoft SQL Server\MSSQL11.SQLEXPRESS\MSSQL\Backup
336   C:\Program Files\Tanium\Tanium Server\VB
337   C:\Program Files\Microsoft SQL Server\110\DTS\ForEachEnumerators\Resources\1033
338   C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-11-17-11-17-33\manual\vhosts
339   C:\Program Files\Common Files\Microsoft Shared\ink\bg-BG
340   C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-11-17-11-17-33\manual\ssl
341   C:\Program Files\Tanium\Tanium Server\Apache24\bin
342   C:\Program Files\Common Files\System\Ole DB
343   C:\Program Files\Tanium\Tanium Server\Apache24\manual\faq
344   C:\Program Files\Microsoft SQL Server\MSSQL11.SQLEXPRESS
345   C:\Program Files\Common Files\VMware\Drivers\audio
346   C:\Program Files\Microsoft SQL Server\110\DTS\Binn\Resources
347   C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\1041_JPN_LP\x64\1041
348   C:\Program Files\Reference Assemblies\Microsoft\Framework\v3.0\RedistList
349   C:\Program Files\Tanium\Tanium Server\Downloads
350   C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\1049_RUS_LP\x64\1049\help
351   C:\Program Files\Microsoft Visual Studio 10.0\Common7\Packages\Debugger\x86
352   C:\Program Files\Microsoft Visual Studio 10.0\Common7\Packages\Debugger\X64
353   C:\Program Files\MSBuild\Microsoft\Windows Workflow Foundation
354   C:\Program Files\Microsoft SQL Server\100\Shared
355   C:\Program Files\Internet Explorer\SIGNUP
356   C:\Program Files\Common Files\Microsoft Shared\ink\es-ES
357   C:\Program Files\Tanium\Tanium Server\Support
358   C:\Program Files\Microsoft SQL Server\110\DTS\Binn
359   C:\Program Files\Common Files\Microsoft Shared\MSInfo
360   C:\Program Files\Reference Assemblies
361   C:\Program Files\Microsoft SQL Server\110\Shared\RsFxInstall
362   C:\Program Files\Microsoft Help Viewer\v1.0\CatalogInfo
363   C:\Program Files\Microsoft SQL Server\110\DTS\MappingFiles
364   C:\Program Files\Microsoft SQL Server\110\DTS\PipelineComponents\Resources
365   C:\Program Files\Common Files\Microsoft Shared\WF\amd64
366   C:\Program Files\Tanium\Tanium Server\plugins\console\SigVerifier
367   C:\Program Files\Tanium\Tanium Server\plugins\console\DashboardGroups
368   C:\Program Files\Microsoft SQL Server\80\Tools
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369  C:\Program Files\Microsoft SQL Server\MSSQL11.SQLEXPRESS\MSSQL\Template Data
370  C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-09-16-20-44-23\icons
371  C:\Program Files\Common Files\Microsoft Shared\ink\de-DE
372  C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\1031_DEU_LP\x64\1031
373  C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\1042_KOR_LP
374  C:\Program Files\Microsoft Visual Studio 10.0\Common7\IDE
375  C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\1033_ENU_LP\x64\1033\help
376  C:\Program Files\Common Files\Microsoft Shared\ink\fsdefinitions\main
377  C:\Program Files\Microsoft Help Viewer\v1.0\StopWords
378  C:\Program Files\Microsoft SQL Server\110\Tools\Binn\ManagementStudio\Extensions\Application
379  C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap
380  C:\Program Files\Microsoft SQL Server\MSSQL11.SQLEXPRESS\MSSQL\repldata
381  C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\x64\zh-CHT
382  C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\x64\zh-CHS
383  C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-09-16-20-44-23\manual\vhosts
384  C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\1042_KOR_LP\x64\1042\help
385  C:\Program Files\Microsoft SQL Server\110\DTS\Tasks\en
386  C:\Program Files\Common Files\SpeechEngines
387  C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-09-16-20-44-23\logs
388  C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-09-16-20-44-23\manual\mod
389  C:\Program Files\VMware\VMware Tools\Drivers\hgfs
390  C:\Program Files\Tanium\Tanium Server\Apache24\conf\original
391  C:\Program Files\Uninstall Information
392  C:\Program Files\Reference Assemblies\Microsoft\Framework\v3.5
393  C:\Program Files\Reference Assemblies\Microsoft\Framework\v3.0
394  C:\Program Files\Microsoft Visual Studio 10.0\Common7\IDE\Xml
395  C:\Program Files\Microsoft SQL Server\110\DTS\PipelineComponents
396  C:\Program Files\Microsoft SQL Server\90\Shared\Resources
397  C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\1046_PTB_LP\x64\1046\help
398  C:\Program Files\Tanium\Tanium Server\Apache24\include
399  C:\Program Files\Tanium\Tanium Server\plugins\console\GroupFiliters
400  C:\Program Files\VMware\VMware Tools\Drivers
401  C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\1041_JPN_LP\x64\1041\help
402  C:\Program Files\Tanium\Tanium Server\Downloads\tmp
403  C:\Program Files\Microsoft SQL Server\100\Setup Bootstrap\Release
404  C:\Program Files\Tanium\Tanium Server\Apache24\conf\original\extra
405  C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-11-17-11-17-33\manual\style\scripts
406  C:\Program Files\Common Files\Microsoft Shared\ink\sr-Latn-CS
407  C:\Program Files\Common Files\Microsoft Shared\ink\fsdefinitions\osknumpad
408  C:\Program Files\Microsoft SQL Server\110\License Terms
409  C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012
410  C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\1031_DEU_LP\x64
411  C:\Program Files\Common Files\VMware\Drivers\vmxnet
412  C:\Program Files\Tanium\Tanium Server\Strings
413  C:\Program Files\MSBuild
414  C:\Program Files\Microsoft SQL Server\110\COM\Resources
415  C:\Program Files\Common Files\VMware\Drivers\Virtual Printer\TPOGPS\amd64
416  C:\Program Files\Microsoft SQL Server\80\COM
417  C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-09-16-20-44-23\htdocs\console\history
418  C:\Program Files\Tanium\Tanium Server\Apache24\manual\howto
419  C:\Program Files\Microsoft SQL Server\110\Shared\Resources\1033
420  C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-09-16-20-44-23\conf\extra
421  C:\Program Files\Common Files\Microsoft Shared\MSEnv
422  C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\2052_CHS_LP\x64\2052
423  C:\Program Files\Common Files\VMware\Drivers\Virtual Printer
424  C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-11-17-11-17-33\htdocs\console\history
425  C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\1028_CHT_LP\x64\1028
426  C:\Program Files\Microsoft SQL Server\110\Shared\VS2008\1033
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427  C:\Program Files\Common Files\Microsoft Shared\ink\pt-BR
428  C:\Program Files\Common Files\Microsoft Shared\ink\pt-PT
429  C:\Program Files\Common Files\System\ado
430  C:\Program Files\Microsoft SQL Server\110\KeyFile\1033
431  C:\Program Files\Tanium\Tanium Server\SOAPUpload
432  C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\Resources\2052
433  C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\Log\20140910_112604\resources
434  C:\Program Files\Microsoft SQL Server\MSSQL11.SQLEXPRESS\MSSQL\DATA
435  C:\Program Files\Tanium\Tanium Server\php55\extras\ssl
436  C:\Program Files\Common Files\Microsoft Shared\ink\el-GR
437  C:\Program Files\VMware\VMware Tools\win32
438  C:\Program Files\VMware\VMware Tools\win64
439  C:\Program Files\Microsoft SQL Server\110\Shared\Resources
440  C:\Program Files\Internet Explorer
441  C:\Program Files\Tanium\Tanium Server\Apache24\icons
442  C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\1033_ENU_LP\x64
443  C:\Program Files\Microsoft SQL Server\MSSQL11.SQLEXPRESS\MSSQL
444  C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\1031_DEU_LP
445  C:\Program Files\Tanium\Tanium Server\Apache24\manual\programs
446  C:\Program Files\Common Files\VMware\Drivers\vmxnet3
447  C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\1049_RUS_LP
448  C:\Program Files\VMware\VMware Tools\Drivers\hgfs\wow64
449  C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\Log
450  C:\Program Files\Microsoft SQL Server\90\License Terms\1033
451  C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-11-17-11-17-33\logs
452  C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-11-17-11-17-33\manual\faq
453  C:\Program Files\Tanium\Tanium Server\Suppot_patch1
454  C:\Program Files\Common Files\Microsoft Shared\ink\fsdefinitions\web
455  C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-11-17-11-17-33\cgi-bin
456  C:\Program Files\Tanium\Tanium Server\Apache24\manual\developer
457  C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\Resources\1036
458  C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\Resources\1033
459  C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\Resources\1031
460  C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\Resources\1028
461  C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\Resources\1049
462  C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\Resources\1046
463  C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\Resources\1042
464  C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\Resources\1041
465  C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\Resources\1040
466  C:\Program Files\Microsoft SQL Server\100\Setup Bootstrap\Release\x64
467  C:\Program Files\Tanium\Tanium Server\Apache24\manual\style\latex
468  C:\Program Files\Tanium\Tanium Server
469  C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-09-16-20-44-23\htdocs\console
470  C:\Program Files\Tanium\Tanium Server\http
471  C:\Program Files\Common Files\Microsoft Shared\ink\ja-JP
472  C:\Program Files\Microsoft SQL Server\110\DTS\Packages
473  C:\Program Files\Common Files\Microsoft Shared\ink\sk-SK
474  C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-11-17-11-17-33\manual\style\css
475  C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-11-17-11-17-33\conf\original
476  C:\Program Files\Tanium\Tanium Server\Apache24\htdocs\php
477  C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-09-16-20-44-23\manual\howto
478  C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-09-16-20-44-23\manual\style\latex
479  C:\Program Files\Common Files\Microsoft Shared\ink\hr-HR
480  C:\Program Files\Common Files\VMware\Drivers
481  C:\Program Files\Tanium\Tanium Server\Apache24\lib
482  C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\Log\20140910_112532
483  C:\Program Files\Microsoft Help Viewer\v1.0
484  C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-11-17-11-17-33\conf\extra
```

```
485  C:\Program Files\Tanium\Tanium Server\Apache24
486  C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-09-16-20-44-23\manual\style\scripts
487  C:\Program Files\Common Files\Microsoft Shared\VGX
488  C:\Program Files\Microsoft SQL Server\110\DTS\ProviderDescriptors
489  C:\Program Files\Microsoft SQL Server\110\COM\en
490  C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-09-16-20-44-23\manual\faq
491  C:\Program Files\Tanium\Tanium Server\Apache24\manual\style\scripts
492  C:\Program Files\Common Files\Microsoft Shared\Triedit\en-US
493  C:\Program Files\Microsoft SQL Server\100\Setup Bootstrap\Release\x64\Help\1033
494  C:\Program Files\Microsoft SQL Server\110\COM
495  C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\1046_PTB_LP\x64
496  C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\Log\20140910_112831\Datastore_GlobalRules
497  C:\Program Files\Common Files\Microsoft Shared\TextConv\en-US
498  C:\Program Files\VMware\VMware Tools\plugins
499  C:\Program Files\Microsoft SQL Server\110\DTS
500  C:\Program Files\Tanium\Tanium Server\plugins\console\SavedQuestions
501  C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-11-17-11-17-33\error\include
502  C:\Program Files\Common Files\System\ado\en-US
503  C:\Program Files\Tanium\Tanium Server\Apache24\cgi-bin
504  C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\Log\20140910_112604
505  C:\Program Files\VMware\VMware Tools\plugins\vmusr
506  C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\Log\20140910_112831\Datastore
507  C:\Program Files\Microsoft SQL Server\MSSQL11.SQLEXPRESS\MSSQL\Binn\DllTmp64
508  C:\Program Files\Microsoft SQL Server\MSSQL11.SQLEXPRESS\MSSQL\Binn\DllTmp32
509  C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-09-16-20-44-23\manual\programs
510  C:\Program Files\Microsoft SQL Server\110\Tools\Binn\Resources
511  C:\Program Files\Tanium\Tanium Server\php55
512  C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-09-16-20-44-23\manual\style
513  C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\1040_ITA_LP\x64
514  C:\Program Files\Reference Assemblies\Microsoft
515  C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-09-16-20-44-23\include
516  C:\Program Files\Tanium\Tanium Server\Apache24\manual\images
517  C:\Program Files\Common Files\Microsoft Shared\ink\fsdefinitions
518  C:\Program Files\Microsoft SQL Server\110\SDK\Assemblies\en
519  C:\Program Files\Tanium\Tanium Server\Logs
520  C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-11-17-11-17-33\manual\mod
521  C:\Program Files\Common Files\VMware\Drivers\Virtual Printer\TPOG3
522  C:\Program Files\Microsoft SQL Server\110
523  C:\Program Files\Microsoft SQL Server\100
524  C:\Program Files\Tanium\Tanium Server\Apache24\modules
525  C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-11-17-11-17-33\manual\platform
526  C:\Program Files\Microsoft Visual Studio 10.0
527  C:\Program Files\Microsoft SQL Server\MSSQL11.SQLEXPRESS\MSSQL\Binn\Resources\3082
528  C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\Log\20140910_112831
529  C:\Program Files\VMware\VMware Tools\plugins\common
530  C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\Log\20140910_112804
531  C:\Program Files\Common Files\Microsoft Shared\ink\th-TH
532  C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-11-17-11-17-33\icons
533  C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\Log\20140910_112831\Datastore_ComponentUpd
534  C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-11-17-11-17-33\error
535  C:\Program Files\Microsoft SQL Server
536  C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-09-16-20-44-23\error
537  C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\3082_ESN_LP\x64
538  C:\Program Files\Common Files\Microsoft Shared\SQL Debugging
539  C:\Program Files\Tanium\Tanium Server\Apache24\error\include
540  C:\Program Files\Microsoft SQL Server\110\SDK\Assemblies
541  C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\x64\Patch
542  C:\Program Files\Microsoft Help Viewer\v1.0\en
```

```
543   C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\3082_ESN_LP\x64\3082\help
544   C:\Program Files\Microsoft SQL Server\90\Shared
545   C:\Program Files\Microsoft SQL Server\MSSQL11.SQLEXPRESS\MSSQL\Binn\Resources\2052
546   C:\Program Files\Microsoft SQL Server\MSSQL11.SQLEXPRESS\MSSQL\Binn\Resources\2070
547   C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-11-17-11-17-33\conf\original\extra
548   C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-11-17-11-17-33\manual\developer
549   C:\Program Files\Common Files\Microsoft Shared\ink\pl-PL
550   C:\Program Files\Common Files\SpeechEngines\Microsoft\TTS20\en-US\enu-dsk
551   C:\Program Files\Common Files\Microsoft Shared\Stationery
552   C:\Program Files\Common Files\Microsoft Shared\VS7Debug\1033
553   C:\Program Files\Microsoft SQL Server\100\Setup Bootstrap\Bin
554   C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\Resources
555   C:\Program Files\Microsoft SQL Server\110\Shared\ErrorDumps
556   C:\Program Files\Internet Explorer\en-US
557   C:\Program Files\VMware\VMware Tools\messages\it
558   C:\Program Files\VMware\VMware Tools\messages\ja
559   C:\Program Files\VMware\VMware Tools\messages\ko
560   C:\Program Files\VMware\VMware Tools\messages\de
561   C:\Program Files\VMware\VMware Tools\messages\es
562   C:\Program Files\VMware\VMware Tools\messages\fr
563   C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\1036_FRA_LP
564   C:\Program Files\Microsoft SQL Server\110\DTS\Tasks","0.0.0.0
565   0.0.0.0
566   0.0.0.0
567   172.16.31.2
568   0.0.0.0","172.16.31.128
569   fe80::5968:4e9d:b4fc:88ef","-
570   -
571   -
572   -
573   -","255.255.255.255
574   255.255.255.0
575   255.255.255.255
576   0.0.0.0
577   255.0.0.0","266
578   266
579   306
580   266
581   306"
```

Export resultset csv sensor true

Export a ResultSet from asking a question as CSV with true for header_add_sensor

Example Python Code

```python
1   # Path to lib directory which contains pytan package
2   PYTAN_LIB_PATH = '../lib'
3
4   # connection info for Tanium Server
5   USERNAME = "Tanium User"
6   PASSWORD = "T@n!um"
7   HOST = "172.16.31.128"
8   PORT = "444"
9
```

```
10   # Logging conrols
11   LOGLEVEL = 2
12   DEBUGFORMAT = False
13
14   import sys, tempfile
15   sys.path.append(PYTAN_LIB_PATH)
16
17   import pytan
18   handler = pytan.Handler(
19       username=USERNAME,
20       password=PASSWORD,
21       host=HOST,
22       port=PORT,
23       loglevel=LOGLEVEL,
24       debugformat=DEBUGFORMAT,
25   )
26
27   print handler
28
29   # setup the export_obj kwargs for later
30   export_kwargs = {}
31   export_kwargs["export_format"] = u'csv'
32   export_kwargs["header_add_sensor"] = True
33
34   # ask the question that will provide the resultset that we want to use
35   ask_kwargs = {
36       'qtype': 'manual_human',
37       'sensors': [
38           "Computer Name", "IP Route Details", "IP Address",
39           'Folder Name Search with RegEx Match{dirname=Program Files,regex=.*Shared.*}',
40       ],
41   }
42   response = handler.ask(**ask_kwargs)
43
44   # export the object to a string
45   # (we could just as easily export to a file using export_to_report_file)
46   export_kwargs['obj'] = response['question_results']
47   export_str = handler.export_obj(**export_kwargs)
48
49
50   print ""
51   print "print the export_str returned from export_obj():"
52   print export_str
```

Output from Python Code

```
1    Handler for Session to 172.16.31.128:444, Authenticated: True, Version: 6.2.314.3258
2    2014-12-07 01:23:53,012 INFO     question_progress: Results 0% (Get Computer Name and IP Route Detai
3    2014-12-07 01:23:58,039 INFO     question_progress: Results 0% (Get Computer Name and IP Route Detai
4    2014-12-07 01:24:03,066 INFO     question_progress: Results 50% (Get Computer Name and IP Route Deta
5    2014-12-07 01:24:08,093 INFO     question_progress: Results 50% (Get Computer Name and IP Route Deta
6    2014-12-07 01:24:13,122 INFO     question_progress: Results 50% (Get Computer Name and IP Route Deta
7    2014-12-07 01:24:18,145 INFO     question_progress: Results 100% (Get Computer Name and IP Route Det
8
9    print the export_str returned from export_obj():
10   Computer Name: Computer Name,"Folder Name Search with RegEx Match[No, Program Files, No, ]: Folder N
11   Casus-Belli.local,Windows Only,"fe80::e896:c1c9:d927:bbe0
```

```
12   2604:2000:69e6:1a00:82e6:50ff:fe1d:1dca
13   172.16.31.1
14   fe80::82e6:50ff:fe1d:1dca
15   172.16.152.1
16   192.168.0.3
17   fe80::2886:21ff:fe7f:3ef4
18   2604:2000:69e6:1a00:95ad:5fe5:cf9e:5403
19   fd1b:56a6:50eb:cd49:e896:c1c9:d927:bbe0","default
20   192.168.0
21   169.254
22   172.16.31/24
23   192.168.0.1/32
24   172.16.152/24
25   192.168.0.3/32","UGSc
26   UCS
27   UCS
28   UC
29   UCS
30   UC
31   UCS","192.168.0.1
32   link#4
33   link#4
34   link#13
35   link#4
36   link#12
37   link#4","en0
38   en0
39   en0
40   vmnet8
41   en0
42   vmnet1
43   en0","None
44   None
45   None
46   None
47   None
48   None
49   None","None
50   None
51   None
52   None
53   None
54   None
55   None"
56   jtanium1.localdomain,"C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-09-16-20-44-23\cgi-bin
57   C:\Program Files\VMware\VMware Tools\plugins\vmsvc
58   C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\1040_ITA_LP\x64\1040\help
59   C:\Program Files\Common Files\Microsoft Shared\VS7Debug
60   C:\Program Files\Tanium\Tanium Server\Apache24\manual\style
61   C:\Program Files\Tanium\Tanium Server\Apache24\htdocs\console\history
62   C:\Program Files\Common Files\VMware\Drivers\vmci\sockets\include
63   C:\Program Files\Common Files\Microsoft Shared\ink\ar-SA
64   C:\Program Files\Tanium\Tanium Server\plugins\console\Dashboards
65   C:\Program Files\Tanium\Tanium Server\CertificateBackup2014-11-17-11-17-33
66   C:\Program Files\Common Files\SpeechEngines\Microsoft
67   C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-09-16-20-44-23\modules
68   C:\Program Files\Common Files\Microsoft Shared\ink\ru-RU
69   C:\Program Files\Microsoft SQL Server\110\DTS\ForEachEnumerators\en
```

```
70   C:\Program Files\Tanium\Tanium Server\Apache24\htdocs\php\Auth
71   C:\Program Files\MSBuild\Microsoft\Windows Workflow Foundation\v3.0
72   C:\Program Files\MSBuild\Microsoft\Windows Workflow Foundation\v3.5
73   C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\2052_CHS_LP\x64
74   C:\Program Files\Common Files\Microsoft Shared\ink\fsdefinitions\keypad
75   C:\Program Files\Tanium\Tanium Server\plugins\console\InstallPlugin
76   C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\Log\20140910_112831\resources
77   C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\Bin
78   C:\Program Files\Microsoft SQL Server\110\DTS\ForEachEnumerators
79   C:\Program Files\Tanium\Tanium Server\Apache24\conf
80   C:\Program Files\MSBuild\Microsoft
81   C:\Program Files\Microsoft SQL Server\110\DTS\UpgradeMappings
82   C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-11-17-11-17-33\htdocs\php\Auth
83   C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-09-16-20-44-23\manual\style\css
84   C:\Program Files\Common Files\Microsoft Shared\ink
85   C:\Program Files\Common Files\Microsoft Shared\ink\sv-SE
86   C:\Program Files\VMware\VMware Tools\messages
87   C:\Program Files\Microsoft SQL Server\110\DTS\ForEachEnumerators\Resources
88   C:\Program Files\Common Files\Microsoft Shared\ink\uk-UA
89   C:\Program Files\Microsoft SQL Server\110\DTS\Binn\Resources\1033
90   C:\Program Files\Tanium\Tanium Server\Apache24\manual\platform
91   C:\Program Files\Microsoft SQL Server\110\KeyFile
92   C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\Resources\3082
93   C:\Program Files\Tanium\Tanium Server\CertificateBackup2014-09-16-20-44-23
94   C:\Program Files\Microsoft SQL Server\100\Setup Bootstrap\Release\x64\1033
95   C:\Program Files\Microsoft.NET\ADOMD.NET
96   C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\1028_CHT_LP\x64\1028\help
97   C:\Program Files\Common Files\Microsoft Shared\ink\sl-SI
98   C:\Program Files\Tanium\Tanium Server\plugins\console\UserGroups
99   C:\Program Files\Common Files\Microsoft Shared\ink\hu-HU
100  C:\Program Files\Common Files\System\en-US
101  C:\Program Files\Common Files\Microsoft Shared\ink\zh-TW
102  C:\Program Files\Common Files\Microsoft Shared\ink\zh-CN
103  C:\Program Files\Common Files\VMware\Drivers\video_wddm
104  C:\Program Files\Common Files\Microsoft Shared\ink\fi-FI
105  C:\Program Files\Common Files\Microsoft Shared
106  C:\Program Files\Microsoft SQL Server\110\SDK\Include
107  C:\Program Files\Common Files\Microsoft Shared\ink\da-DK
108  C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-09-16-20-44-23\icons\small
109  C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-11-17-11-17-33
110  C:\Program Files\Microsoft Visual Studio 10.0\Common7\IDE\PrivateAssemblies
111  C:\Program Files\Microsoft SQL Server\80
112  C:\Program Files\Microsoft SQL Server\90
113  C:\Program Files\Windows Mail
114  C:\Program Files\Common Files\VMware\Drivers\vmci\sockets\bin\win64
115  C:\Program Files\Common Files\VMware\Drivers\vmci\sockets\bin\win32
116  C:\Program Files\Common Files\Microsoft Shared\ink\fsdefinitions\oskmenu
117  C:\Program Files\Microsoft SQL Server\110\DTS\LogProviders
118  C:\Program Files\Microsoft SQL Server\100\Setup Bootstrap\Release\Resources\1033
119  C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\1049_RUS_LP\x64\1049
120  C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\Log\20140910_112604\Datastore_GlobalRules
121  C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-09-16-20-44-23\manual\images
122  C:\Program Files\Microsoft SQL Server\110\SDK
123  C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\1036_FRA_LP\x64
124  C:\Program Files\Windows NT\Accessories
125  C:\Program Files\Tanium\Tanium Server\content_public_keys
126  C:\Program Files\Windows NT\TableTextService\en-US
127  C:\Program Files\Tanium\Tanium Server\plugins\console\Manifest
```

```
128   C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-09-16-20-44-23\bin
129   C:\Program Files\Tanium\Tanium Server\Apache24\logs
130   C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\1033_ENU_LP
131   C:\Program Files\Tanium\Tanium Server\plugins\content
132   C:\Program Files\Reference Assemblies\Microsoft\Framework
133   C:\Program Files\Microsoft SQL Server\110\DTS\Connections\en
134   C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-11-17-11-17-33\icons\small
135   C:\Program Files\Common Files\VMware\Drivers\Virtual Printer\TPOG3\amd64
136   C:\Program Files\Microsoft Visual Studio 10.0\Common7\IDE\PrivateAssemblies\1033
137   C:\Program Files\Common Files\Microsoft Shared\ink\ko-KR
138   C:\Program Files\Tanium\Tanium Server\Apache24\manual\ssl
139   C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\1042_KOR_LP\x64
140   C:\Program Files\Tanium\Tanium Server\Apache24\manual\style\css
141   C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-11-17-11-17-33\manual\misc
142   C:\Program Files\Microsoft SQL Server\110\SDK\Lib\x64
143   C:\Program Files\Microsoft SQL Server\110\SDK\Lib\x86
144   C:\Program Files\Tanium\Tanium Server\plugins\console\lib
145   C:\Program Files\Common Files\Microsoft Shared\ink\it-IT
146   C:\Program Files\Microsoft.NET
147   C:\Program Files\Microsoft SQL Server\110\DTS\DataDumps
148   C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-11-17-11-17-33\conf
149   C:\Program Files\Internet Explorer\images
150   C:\Program Files\Windows NT
151   C:\Program Files\Microsoft SQL Server\110\COM\Resources\1033
152   C:\Program Files\Microsoft SQL Server\MSSQL11.SQLEXPRESS\MSSQL\JOBS
153   C:\Program Files\Tanium\Tanium Server\Apache24\htdocs
154   C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\1041_JPN_LP
155   C:\Program Files\Tanium\Tanium Server\php55\extras
156   C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\1031_DEU_LP\x64\1031\help
157   C:\Program Files\Microsoft SQL Server\100\Setup Bootstrap
158   C:\Program Files\Common Files\SpeechEngines\Microsoft\TTS20
159   C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-09-16-20-44-23
160   C:\Program Files\Common Files\Microsoft Shared\Triedit
161   C:\Program Files\Microsoft.NET\ADOMD.NET\110
162   C:\Program Files\Microsoft SQL Server\110\Shared
163   C:\Program Files\Microsoft SQL Server\110\Tools\Binn
164   C:\Program Files\Microsoft Help Viewer
165   C:\Program Files\Microsoft SQL Server\100\Setup Bootstrap\Release\x64\Patch
166   C:\Program Files\Tanium\Tanium Server\Apache24\bin\iconv
167   C:\Program Files\Common Files\VMware\Drivers\memctl
168   C:\Program Files\Tanium\Tanium Server\plugins\console
169   C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-09-16-20-44-23\conf\original
170   C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-09-16-20-44-23\htdocs\php
171   C:\Program Files\Microsoft SQL Server\90\License Terms
172   C:\Program Files\Microsoft SQL Server\100\Setup Bootstrap\Release\Resources
173   C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\x64\pt
174   C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\x64\ru
175   C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-11-17-11-17-33\lib
176   C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\x64\it
177   C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\x64\ko
178   C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\x64\ja
179   C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\x64\es
180   C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\x64\de
181   C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\x64\fr
182   C:\Program Files\Common Files\Microsoft Shared\ink\he-IL
183   C:\Program Files\Common Files\Microsoft Shared\ink\ro-RO
184   C:\Program Files\Common Files\VMware\Drivers\pvscsi
185   C:\Program Files\Microsoft Visual Studio 10.0\Common7\Packages
```

```
186   C:\Program Files\Microsoft Visual Studio 10.0\Common7
187   C:\Program Files\Common Files\Services
188   C:\Program Files\Common Files\Microsoft Shared\ink\fsdefinitions\oskpred
189   C:\Program Files\Microsoft SQL Server\110\SDK\Lib
190   C:\Program Files\Microsoft SQL Server\110\DTS\PipelineComponents\Resources\1033
191   C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-09-16-20-44-23\manual\misc
192   C:\Program Files\Tanium\Tanium Server\Apache24\manual\misc
193   C:\Program Files\Common Files\SpeechEngines\Microsoft\TTS20\en-US
194   C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-11-17-11-17-33\modules
195   C:\Program Files\Microsoft SQL Server\110\DTS\Connections
196   C:\Program Files\Tanium\Tanium Server\Downloads\URLCache
197   C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\1046_PTB_LP
198   C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-09-16-20-44-23\manual\rewrite
199   C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-11-17-11-17-33\manual\images
200   C:\Program Files\Common Files\VMware\Drivers\vmci\device
201   C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-11-17-11-17-33\manual\rewrite
202   C:\Program Files\Common Files
203   C:\Program Files\Tanium\Tanium Server\Apache24\manual
204   C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-09-16-20-44-23\manual\platform
205   C:\Program Files\Tanium\Tanium Server\Apache24\conf\extra
206   C:\Program Files\Common Files\VMware\Drivers\vmci
207   C:\Program Files\Common Files\System\msadc\en-US
208   C:\Program Files\Common Files\System
209   C:\Program Files\Windows NT\Accessories\en-US
210   C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\1036_FRA_LP\x64\1036
211   C:\Program Files\Microsoft SQL Server\MSSQL11.SQLEXPRESS\MSSQL\Binn\Resources
212   C:\Program Files\Tanium\Tanium Server\plugins\console\RegistrySetting
213   C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\1046_PTB_LP\x64\1046
214   C:\Program Files\Tanium\Tanium Server\Apache24\manual\rewrite
215   C:\Program Files\VMware\VMware Tools
216   C:\Program Files\Common Files\Microsoft Shared\ink\fsdefinitions\numbers
217   C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\1049_RUS_LP\x64
218   C:\Program Files\Microsoft SQL Server\MSSQL11.SQLEXPRESS\MSSQL\Log
219   C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-09-16-20-44-23\lib
220   C:\Program Files\Windows NT\TableTextService
221   C:\Program Files\Microsoft SQL Server\MSSQL11.SQLEXPRESS\MSSQL\Binn\Resources\1055
222   C:\Program Files\Microsoft SQL Server\MSSQL11.SQLEXPRESS\MSSQL\Binn\Resources\1053
223   C:\Program Files\Microsoft SQL Server\MSSQL11.SQLEXPRESS\MSSQL\Binn\Resources\1049
224   C:\Program Files\Microsoft SQL Server\MSSQL11.SQLEXPRESS\MSSQL\Binn\Resources\1041
225   C:\Program Files\Microsoft SQL Server\MSSQL11.SQLEXPRESS\MSSQL\Binn\Resources\1040
226   C:\Program Files\Microsoft SQL Server\MSSQL11.SQLEXPRESS\MSSQL\Binn\Resources\1043
227   C:\Program Files\Microsoft SQL Server\MSSQL11.SQLEXPRESS\MSSQL\Binn\Resources\1042
228   C:\Program Files\Microsoft SQL Server\MSSQL11.SQLEXPRESS\MSSQL\Binn\Resources\1045
229   C:\Program Files\Microsoft SQL Server\MSSQL11.SQLEXPRESS\MSSQL\Binn\Resources\1044
230   C:\Program Files\Microsoft SQL Server\MSSQL11.SQLEXPRESS\MSSQL\Binn\Resources\1046
231   C:\Program Files\Microsoft SQL Server\MSSQL11.SQLEXPRESS\MSSQL\Binn\Resources\1038
232   C:\Program Files\Microsoft SQL Server\MSSQL11.SQLEXPRESS\MSSQL\Binn\Resources\1035
233   C:\Program Files\Microsoft SQL Server\MSSQL11.SQLEXPRESS\MSSQL\Binn\Resources\1036
234   C:\Program Files\Microsoft SQL Server\MSSQL11.SQLEXPRESS\MSSQL\Binn\Resources\1030
235   C:\Program Files\Microsoft SQL Server\MSSQL11.SQLEXPRESS\MSSQL\Binn\Resources\1031
236   C:\Program Files\Microsoft SQL Server\MSSQL11.SQLEXPRESS\MSSQL\Binn\Resources\1032
237   C:\Program Files\Microsoft SQL Server\MSSQL11.SQLEXPRESS\MSSQL\Binn\Resources\1033
238   C:\Program Files\Microsoft SQL Server\MSSQL11.SQLEXPRESS\MSSQL\Binn\Resources\1029
239   C:\Program Files\Microsoft SQL Server\MSSQL11.SQLEXPRESS\MSSQL\Binn\Resources\1028
240   C:\Program Files\Tanium\Tanium Server\Apache24\htdocs\console
241   C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\1042_KOR_LP\x64\1042
242   C:\Program Files\Tanium\Tanium Server\Apache24\error
243   C:\Program Files\Common Files\Microsoft Shared\ink\nb-NO
```

```
244  C:\Program Files\Tanium\Tanium Server\Apache24\manual\mod
245  C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\1041_JPN_LP\x64
246  C:\Program Files\Common Files\Microsoft Shared\ink\lv-LV
247  C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-09-16-20-44-23\manual
248  C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\1033_ENU_LP\x64\1033
249  C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-09-16-20-44-23\conf\original\extra
250  C:\Program Files\Common Files\Microsoft Shared\ink\fsdefinitions\auxpad
251  C:\Program Files\Common Files\Microsoft Shared\TextConv
252  C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-09-16-20-44-23\manual\developer
253  C:\Program Files\Common Files\Microsoft Shared\MSInfo\en-US
254  C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\3082_ESN_LP\x64\3082
255  C:\Program Files\Common Files\Microsoft Shared\ink\nl-NL
256  C:\Program Files\Tanium
257  C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-11-17-11-17-33\manual\howto
258  C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-11-17-11-17-33\include
259  C:\Program Files\Reference Assemblies\Microsoft\Framework\v3.5\RedistList
260  C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\Log\20140910_112532\Datastore_LandingPage
261  C:\Program Files\Microsoft SQL Server\100\KeyFile\1033
262  C:\Program Files\Microsoft SQL Server\110\Tools\Binn\Resources\1033
263  C:\Program Files\Tanium\Tanium Server\Downloads\Cache
264  C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-11-17-11-17-33\manual\style\latex
265  C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\3082_ESN_LP
266  C:\Program Files\Tanium\Tanium Server\php55\dev
267  C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-11-17-11-17-33\bin\iconv
268  C:\Program Files\VMware\VMware Tools\messages\zh_CN
269  C:\Program Files\Tanium\Tanium Server\Apache24\manual\vhosts
270  C:\Program Files\Common Files\VMware\Drivers\vmci\sockets
271  C:\Program Files\Microsoft SQL Server\90\Shared\Resources\1033
272  C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-09-16-20-44-23\conf
273  C:\Program Files\Common Files\VMware
274  C:\Program Files\Common Files\System\msadc
275  C:\Program Files\Microsoft SQL Server\110\Tools
276  C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-11-17-11-17-33\htdocs\php
277  C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\1040_ITA_LP
278  C:\Program Files\Common Files\Microsoft Shared\ink\fr-FR
279  C:\Program Files\Common Files\VMware\Drivers\vss
280  C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-11-17-11-17-33\bin
281  C:\Program Files\Common Files\Microsoft Shared\ink\tr-TR
282  C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-11-17-11-17-33\manual\programs
283  C:\Program Files\Common Files\Microsoft Shared\VC
284  C:\Program Files\Tanium\Tanium Server\php55\ext
285  C:\Program Files\Common Files\Microsoft Shared\WF
286  C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-09-16-20-44-23\manual\ssl
287  C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-11-17-11-17-33\htdocs
288  C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-11-17-11-17-33\htdocs\console
289  C:\Program Files\Microsoft SQL Server\MSSQL11.SQLEXPRESS\MSSQL\Binn\Templates
290  C:\Program Files\Tanium\Tanium Server\plugins
291  C:\Program Files\Tanium\Tanium Server\Apache24\icons\small
292  C:\Program Files\Microsoft SQL Server\110\Shared\en
293  C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-09-16-20-44-23\htdocs\php\Auth
294  C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-09-16-20-44-23\error\include
295  C:\Program Files\Microsoft SQL Server\100\Setup Bootstrap\Release\x64\Help
296  C:\Program Files\Microsoft Help Viewer\v1.0\Microsoft Help Viewer 1.1
297  C:\Program Files\Microsoft SQL Server\110\Tools\Binn\ManagementStudio
298  C:\Program Files\Common Files\Microsoft Shared\ink\fsdefinitions\symbols
299  C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\1036_FRA_LP\x64\1036\help
300  C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-11-17-11-17-33\manual
301  C:\Program Files\Common Files\System\Ole DB\en-US
```

```
302   C:\Program Files\Microsoft SQL Server\110\Tools\Binn\ManagementStudio\Extensions
303   C:\Program Files\Microsoft SQL Server\80\Tools\Binn
304   C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\2052_CHS_LP
305   C:\Program Files\Common Files\Microsoft Shared\ink\lt-LT
306   C:\Program Files\Microsoft SQL Server\MSSQL11.SQLEXPRESS\MSSQL\Binn
307   C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\x64
308   C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-09-16-20-44-23\htdocs
309   C:\Program Files\Microsoft SQL Server\100\KeyFile
310   C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-11-17-11-17-33\manual\style
311   C:\Program Files\Microsoft SQL Server\MSSQL11.SQLEXPRESS\MSSQL\Install
312   C:\Program Files\Common Files\Microsoft Shared\ink\et-EE
313   C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\1028_CHT_LP
314   C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\1040_ITA_LP\x64\1040
315   C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\1028_CHT_LP\x64
316   C:\Program Files\Common Files\VMware\Drivers\Virtual Printer\TPOGPS
317   C:\Program Files\Common Files\Microsoft Shared\ink\cs-CZ
318   C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\2052_CHS_LP\x64\2052\help
319   C:\Program Files\VMware
320   C:\Program Files\Microsoft SQL Server\110\Shared\VS2008
321   C:\Program Files\Microsoft Visual Studio 10.0\Common7\Packages\Debugger
322   C:\Program Files\Common Files\VMware\Drivers\mouse
323   C:\Program Files\Common Files\VMware\Drivers\vmci\sockets\bin
324   C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-09-16-20-44-23\bin\iconv
325   C:\Program Files\Common Files\Microsoft Shared\ink\en-US
326   C:\Program Files\Microsoft SQL Server\MSSQL11.SQLEXPRESS\MSSQL\Backup
327   C:\Program Files\Tanium\Tanium Server\VB
328   C:\Program Files\Microsoft SQL Server\110\DTS\ForEachEnumerators\Resources\1033
329   C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-11-17-11-17-33\manual\vhosts
330   C:\Program Files\Common Files\Microsoft Shared\ink\bg-BG
331   C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-11-17-11-17-33\manual\ssl
332   C:\Program Files\Tanium\Tanium Server\Apache24\bin
333   C:\Program Files\Common Files\System\Ole DB
334   C:\Program Files\Tanium\Tanium Server\Apache24\manual\faq
335   C:\Program Files\Microsoft SQL Server\MSSQL11.SQLEXPRESS
336   C:\Program Files\Common Files\VMware\Drivers\audio
337   C:\Program Files\Microsoft SQL Server\110\DTS\Binn\Resources
338   C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\1041_JPN_LP\x64\1041
339   C:\Program Files\Reference Assemblies\Microsoft\Framework\v3.0\RedistList
340   C:\Program Files\Tanium\Tanium Server\Downloads
341   C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\1049_RUS_LP\x64\1049\help
342   C:\Program Files\Microsoft Visual Studio 10.0\Common7\Packages\Debugger\x86
343   C:\Program Files\Microsoft Visual Studio 10.0\Common7\Packages\Debugger\X64
344   C:\Program Files\MSBuild\Microsoft\Windows Workflow Foundation
345   C:\Program Files\Microsoft SQL Server\100\Shared
346   C:\Program Files\Internet Explorer\SIGNUP
347   C:\Program Files\Common Files\Microsoft Shared\ink\es-ES
348   C:\Program Files\Tanium\Tanium Server\Support
349   C:\Program Files\Microsoft SQL Server\110\DTS\Binn
350   C:\Program Files\Common Files\Microsoft Shared\MSInfo
351   C:\Program Files\Reference Assemblies
352   C:\Program Files\Microsoft SQL Server\110\Shared\RsFxInstall
353   C:\Program Files\Microsoft Help Viewer\v1.0\CatalogInfo
354   C:\Program Files\Microsoft SQL Server\110\DTS\MappingFiles
355   C:\Program Files\Microsoft SQL Server\110\DTS\PipelineComponents\Resources
356   C:\Program Files\Common Files\Microsoft Shared\WF\amd64
357   C:\Program Files\Tanium\Tanium Server\plugins\console\SigVerifier
358   C:\Program Files\Tanium\Tanium Server\plugins\console\DashboardGroups
359   C:\Program Files\Microsoft SQL Server\80\Tools
```

```
360  C:\Program Files\Microsoft SQL Server\MSSQL11.SQLEXPRESS\MSSQL\Template Data
361  C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-09-16-20-44-23\icons
362  C:\Program Files\Common Files\Microsoft Shared\ink\de-DE
363  C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\1031_DEU_LP\x64\1031
364  C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\1042_KOR_LP
365  C:\Program Files\Microsoft Visual Studio 10.0\Common7\IDE
366  C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\1033_ENU_LP\x64\1033\help
367  C:\Program Files\Common Files\Microsoft Shared\ink\fsdefinitions\main
368  C:\Program Files\Microsoft Help Viewer\v1.0\StopWords
369  C:\Program Files\Microsoft SQL Server\110\Tools\Binn\ManagementStudio\Extensions\Application
370  C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap
371  C:\Program Files\Microsoft SQL Server\MSSQL11.SQLEXPRESS\MSSQL\repldata
372  C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\x64\zh-CHT
373  C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\x64\zh-CHS
374  C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-09-16-20-44-23\manual\vhosts
375  C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\1042_KOR_LP\x64\1042\help
376  C:\Program Files\Microsoft SQL Server\110\DTS\Tasks\en
377  C:\Program Files\Common Files\SpeechEngines
378  C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-09-16-20-44-23\logs
379  C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-09-16-20-44-23\manual\mod
380  C:\Program Files\VMware\VMware Tools\Drivers\hgfs
381  C:\Program Files\Tanium\Tanium Server\Apache24\conf\original
382  C:\Program Files\Uninstall Information
383  C:\Program Files\Reference Assemblies\Microsoft\Framework\v3.5
384  C:\Program Files\Reference Assemblies\Microsoft\Framework\v3.0
385  C:\Program Files\Microsoft Visual Studio 10.0\Common7\IDE\Xml
386  C:\Program Files\Microsoft SQL Server\110\DTS\PipelineComponents
387  C:\Program Files\Microsoft SQL Server\90\Shared\Resources
388  C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\1046_PTB_LP\x64\1046\help
389  C:\Program Files\Tanium\Tanium Server\Apache24\include
390  C:\Program Files\Tanium\Tanium Server\plugins\console\GroupFiliters
391  C:\Program Files\VMware\VMware Tools\Drivers
392  C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\1041_JPN_LP\x64\1041\help
393  C:\Program Files\Tanium\Tanium Server\Downloads\tmp
394  C:\Program Files\Microsoft SQL Server\100\Setup Bootstrap\Release
395  C:\Program Files\Tanium\Tanium Server\Apache24\conf\original\extra
396  C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-11-17-11-17-33\manual\style\scripts
397  C:\Program Files\Common Files\Microsoft Shared\ink\sr-Latn-CS
398  C:\Program Files\Common Files\Microsoft Shared\ink\fsdefinitions\osknumpad
399  C:\Program Files\Microsoft SQL Server\110\License Terms
400  C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012
401  C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\1031_DEU_LP\x64
402  C:\Program Files\Common Files\VMware\Drivers\vmxnet
403  C:\Program Files\Tanium\Tanium Server\Strings
404  C:\Program Files\MSBuild
405  C:\Program Files\Microsoft SQL Server\110\COM\Resources
406  C:\Program Files\Common Files\VMware\Drivers\Virtual Printer\TPOGPS\amd64
407  C:\Program Files\Microsoft SQL Server\80\COM
408  C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-09-16-20-44-23\htdocs\console\history
409  C:\Program Files\Tanium\Tanium Server\Apache24\manual\howto
410  C:\Program Files\Microsoft SQL Server\110\Shared\Resources\1033
411  C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-09-16-20-44-23\conf\extra
412  C:\Program Files\Common Files\Microsoft Shared\MSEnv
413  C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\2052_CHS_LP\x64\2052
414  C:\Program Files\Common Files\VMware\Drivers\Virtual Printer
415  C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-11-17-11-17-33\htdocs\console\history
416  C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\1028_CHT_LP\x64\1028
417  C:\Program Files\Microsoft SQL Server\110\Shared\VS2008\1033
```

```
418  C:\Program Files\Common Files\Microsoft Shared\ink\pt-BR
419  C:\Program Files\Common Files\Microsoft Shared\ink\pt-PT
420  C:\Program Files\Common Files\System\ado
421  C:\Program Files\Microsoft SQL Server\110\KeyFile\1033
422  C:\Program Files\Tanium\Tanium Server\SOAPUpload
423  C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\Resources\2052
424  C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\Log\20140910_112604\resources
425  C:\Program Files\Microsoft SQL Server\MSSQL11.SQLEXPRESS\MSSQL\DATA
426  C:\Program Files\Tanium\Tanium Server\php55\extras\ssl
427  C:\Program Files\Common Files\Microsoft Shared\ink\el-GR
428  C:\Program Files\VMware\VMware Tools\win32
429  C:\Program Files\VMware\VMware Tools\win64
430  C:\Program Files\Microsoft SQL Server\110\Shared\Resources
431  C:\Program Files\Internet Explorer
432  C:\Program Files\Tanium\Tanium Server\Apache24\icons
433  C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\1033_ENU_LP\x64
434  C:\Program Files\Microsoft SQL Server\MSSQL11.SQLEXPRESS\MSSQL
435  C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\1031_DEU_LP
436  C:\Program Files\Tanium\Tanium Server\Apache24\manual\programs
437  C:\Program Files\Common Files\VMware\Drivers\vmxnet3
438  C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\1049_RUS_LP
439  C:\Program Files\VMware\VMware Tools\Drivers\hgfs\wow64
440  C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\Log
441  C:\Program Files\Microsoft SQL Server\90\License Terms\1033
442  C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-11-17-11-17-33\logs
443  C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-11-17-11-17-33\manual\faq
444  C:\Program Files\Tanium\Tanium Server\Suppot_patch1
445  C:\Program Files\Common Files\Microsoft Shared\ink\fsdefinitions\web
446  C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-11-17-11-17-33\cgi-bin
447  C:\Program Files\Tanium\Tanium Server\Apache24\manual\developer
448  C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\Resources\1036
449  C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\Resources\1033
450  C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\Resources\1031
451  C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\Resources\1028
452  C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\Resources\1049
453  C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\Resources\1046
454  C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\Resources\1042
455  C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\Resources\1041
456  C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\Resources\1040
457  C:\Program Files\Microsoft SQL Server\100\Setup Bootstrap\Release\x64
458  C:\Program Files\Tanium\Tanium Server\Apache24\manual\style\latex
459  C:\Program Files\Tanium\Tanium Server
460  C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-09-16-20-44-23\htdocs\console
461  C:\Program Files\Tanium\Tanium Server\http
462  C:\Program Files\Common Files\Microsoft Shared\ink\ja-JP
463  C:\Program Files\Microsoft SQL Server\110\DTS\Packages
464  C:\Program Files\Common Files\Microsoft Shared\ink\sk-SK
465  C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-11-17-11-17-33\manual\style\css
466  C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-11-17-11-17-33\conf\original
467  C:\Program Files\Tanium\Tanium Server\Apache24\htdocs\php
468  C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-09-16-20-44-23\manual\howto
469  C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-09-16-20-44-23\manual\style\latex
470  C:\Program Files\Common Files\Microsoft Shared\ink\hr-HR
471  C:\Program Files\Common Files\VMware\Drivers
472  C:\Program Files\Tanium\Tanium Server\Apache24\lib
473  C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\Log\20140910_112532
474  C:\Program Files\Microsoft Help Viewer\v1.0
475  C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-11-17-11-17-33\conf\extra
```

```
476   C:\Program Files\Tanium\Tanium Server\Apache24
477   C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-09-16-20-44-23\manual\style\scripts
478   C:\Program Files\Common Files\Microsoft Shared\VGX
479   C:\Program Files\Microsoft SQL Server\110\DTS\ProviderDescriptors
480   C:\Program Files\Microsoft SQL Server\110\COM\en
481   C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-09-16-20-44-23\manual\faq
482   C:\Program Files\Tanium\Tanium Server\Apache24\manual\style\scripts
483   C:\Program Files\Common Files\Microsoft Shared\Triedit\en-US
484   C:\Program Files\Microsoft SQL Server\100\Setup Bootstrap\Release\x64\Help\1033
485   C:\Program Files\Microsoft SQL Server\110\COM
486   C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\1046_PTB_LP\x64
487   C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\Log\20140910_112831\Datastore_GlobalRules
488   C:\Program Files\Common Files\Microsoft Shared\TextConv\en-US
489   C:\Program Files\VMware\VMware Tools\plugins
490   C:\Program Files\Microsoft SQL Server\110\DTS
491   C:\Program Files\Tanium\Tanium Server\plugins\console\SavedQuestions
492   C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-11-17-11-17-33\error\include
493   C:\Program Files\Common Files\System\ado\en-US
494   C:\Program Files\Tanium\Tanium Server\Apache24\cgi-bin
495   C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\Log\20140910_112604
496   C:\Program Files\VMware\VMware Tools\plugins\vmusr
497   C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\Log\20140910_112831\Datastore
498   C:\Program Files\Microsoft SQL Server\MSSQL11.SQLEXPRESS\MSSQL\Binn\DllTmp64
499   C:\Program Files\Microsoft SQL Server\MSSQL11.SQLEXPRESS\MSSQL\Binn\DllTmp32
500   C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-09-16-20-44-23\manual\programs
501   C:\Program Files\Microsoft SQL Server\110\Tools\Binn\Resources
502   C:\Program Files\Tanium\Tanium Server\php55
503   C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-09-16-20-44-23\manual\style
504   C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\1040_ITA_LP\x64
505   C:\Program Files\Reference Assemblies\Microsoft
506   C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-09-16-20-44-23\include
507   C:\Program Files\Tanium\Tanium Server\Apache24\manual\images
508   C:\Program Files\Common Files\Microsoft Shared\ink\fsdefinitions
509   C:\Program Files\Microsoft SQL Server\110\SDK\Assemblies\en
510   C:\Program Files\Tanium\Tanium Server\Logs
511   C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-11-17-11-17-33\manual\mod
512   C:\Program Files\Common Files\VMware\Drivers\Virtual Printer\TPOG3
513   C:\Program Files\Microsoft SQL Server\110
514   C:\Program Files\Microsoft SQL Server\100
515   C:\Program Files\Tanium\Tanium Server\Apache24\modules
516   C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-11-17-11-17-33\manual\platform
517   C:\Program Files\Microsoft Visual Studio 10.0
518   C:\Program Files\Microsoft SQL Server\MSSQL11.SQLEXPRESS\MSSQL\Binn\Resources\3082
519   C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\Log\20140910_112831
520   C:\Program Files\VMware\VMware Tools\plugins\common
521   C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\Log\20140910_112804
522   C:\Program Files\Common Files\Microsoft Shared\ink\th-TH
523   C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-11-17-11-17-33\icons
524   C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\Log\20140910_112831\Datastore_ComponentUpd
525   C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-11-17-11-17-33\error
526   C:\Program Files\Microsoft SQL Server
527   C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-09-16-20-44-23\error
528   C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\3082_ESN_LP\x64
529   C:\Program Files\Common Files\Microsoft Shared\SQL Debugging
530   C:\Program Files\Tanium\Tanium Server\Apache24\error\include
531   C:\Program Files\Microsoft SQL Server\110\SDK\Assemblies
532   C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\x64\Patch
533   C:\Program Files\Microsoft Help Viewer\v1.0\en
```

```
534  C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\3082_ESN_LP\x64\3082\help
535  C:\Program Files\Microsoft SQL Server\90\Shared
536  C:\Program Files\Microsoft SQL Server\MSSQL11.SQLEXPRESS\MSSQL\Binn\Resources\2052
537  C:\Program Files\Microsoft SQL Server\MSSQL11.SQLEXPRESS\MSSQL\Binn\Resources\2070
538  C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-11-17-11-17-33\conf\original\extra
539  C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-11-17-11-17-33\manual\developer
540  C:\Program Files\Common Files\Microsoft Shared\ink\pl-PL
541  C:\Program Files\Common Files\SpeechEngines\Microsoft\TTS20\en-US\enu-dsk
542  C:\Program Files\Common Files\Microsoft Shared\Stationery
543  C:\Program Files\Common Files\Microsoft Shared\VS7Debug\1033
544  C:\Program Files\Microsoft SQL Server\100\Setup Bootstrap\Bin
545  C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\Resources
546  C:\Program Files\Microsoft SQL Server\110\Shared\ErrorDumps
547  C:\Program Files\Internet Explorer\en-US
548  C:\Program Files\VMware\VMware Tools\messages\it
549  C:\Program Files\VMware\VMware Tools\messages\ja
550  C:\Program Files\VMware\VMware Tools\messages\ko
551  C:\Program Files\VMware\VMware Tools\messages\de
552  C:\Program Files\VMware\VMware Tools\messages\es
553  C:\Program Files\VMware\VMware Tools\messages\fr
554  C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\1036_FRA_LP
555  C:\Program Files\Microsoft SQL Server\110\DTS\Tasks","172.16.31.128
556  fe80::5968:4e9d:b4fc:88ef","172.16.31.128
557  172.16.31.0
558  127.0.0.1
559  0.0.0.0
560  127.0.0.0","-
561  -
562  -
563  -
564  -","0.0.0.0
565  0.0.0.0
566  0.0.0.0
567  172.16.31.2
568  0.0.0.0","-
569  -
570  -
571  -
572  -","255.255.255.255
573  255.255.255.0
574  255.255.255.255
575  0.0.0.0
576  255.0.0.0","266
577  266
578  306
579  266
580  306"
```

pytan API Invalid Export ResultSet Examples

Invalid export resultset csv bad sort sub type

Export a ResultSet from asking a question using a bad header_sort

Example Python Code

```python
1   # Path to lib directory which contains pytan package
2   PYTAN_LIB_PATH = '../lib'
3
4   # connection info for Tanium Server
5   USERNAME = "Tanium User"
6   PASSWORD = "T@n!um"
7   HOST = "172.16.31.128"
8   PORT = "444"
9
10  # Logging conrols
11  LOGLEVEL = 2
12  DEBUGFORMAT = False
13
14  import sys, tempfile
15  sys.path.append(PYTAN_LIB_PATH)
16
17  import pytan
18  handler = pytan.Handler(
19      username=USERNAME,
20      password=PASSWORD,
21      host=HOST,
22      port=PORT,
23      loglevel=LOGLEVEL,
24      debugformat=DEBUGFORMAT,
25  )
26
27  print handler
28
29  # setup the export_obj kwargs for later
30  export_kwargs = {}
31  export_kwargs["export_format"] = u'csv'
32  export_kwargs["header_sort"] = [[]]
33
34  # ask the question that will provide the resultset that we want to use
35  ask_kwargs = {
36      'qtype': 'manual_human',
37      'sensors': [
38          "Computer Name"
39      ],
40  }
41  response = handler.ask(**ask_kwargs)
42  export_kwargs['obj'] = response['question_results']
43
44  # export the object to a string
45  # this should throw an exception: pytan.utils.HandlerError
46  import traceback
47
48  try:
49      handler.export_obj(**export_kwargs)
50  except Exception as e:
51      traceback.print_exc(file=sys.stdout)
```

Output from Python Code

```
1   Handler for Session to 172.16.31.128:444, Authenticated: True, Version: 6.2.314.3258
2   2014-12-07 01:24:18,306 INFO     question_progress: Results 0% (Get Computer Name from all machines)
```

```
3    2014-12-07 01:24:23,321 INFO     question_progress: Results 0% (Get Computer Name from all machines)
4    2014-12-07 01:24:28,340 INFO     question_progress: Results 100% (Get Computer Name from all machine
5    Traceback (most recent call last):
6      File "<string>", line 49, in <module>
7      File "/Users/jolsen/gh/pytan/lib/pytan/handler.py", line 1339, in export_obj
8        utils.check_dictkey(**check_args)
9      File "/Users/jolsen/gh/pytan/lib/pytan/utils.py", line 2440, in check_dictkey
10       raise HandlerError(err(key, valid_list_types, list_types))
11   HandlerError: 'header_sort' must be a list of [<type 'str'>, <type 'unicode'>], you supplied [<type
```

Invalid export resultset csv bad sort type

Export a ResultSet from asking a question using a bad header_sort

Example Python Code

```python
1    # Path to lib directory which contains pytan package
2    PYTAN_LIB_PATH = '../lib'
3
4    # connection info for Tanium Server
5    USERNAME = "Tanium User"
6    PASSWORD = "T@n!um"
7    HOST = "172.16.31.128"
8    PORT = "444"
9
10   # Logging conrols
11   LOGLEVEL = 2
12   DEBUGFORMAT = False
13
14   import sys, tempfile
15   sys.path.append(PYTAN_LIB_PATH)
16
17   import pytan
18   handler = pytan.Handler(
19       username=USERNAME,
20       password=PASSWORD,
21       host=HOST,
22       port=PORT,
23       loglevel=LOGLEVEL,
24       debugformat=DEBUGFORMAT,
25   )
26
27   print handler
28
29   # setup the export_obj kwargs for later
30   export_kwargs = {}
31   export_kwargs["export_format"] = u'csv'
32   export_kwargs["header_sort"] = u'bad'
33
34   # ask the question that will provide the resultset that we want to use
35   ask_kwargs = {
36       'qtype': 'manual_human',
37       'sensors': [
38           "Computer Name"
39       ],
```

```
40   }
41   response = handler.ask(**ask_kwargs)
42   export_kwargs['obj'] = response['question_results']
43
44   # export the object to a string
45   # this should throw an exception: pytan.utils.HandlerError
46   import traceback
47
48   try:
49       handler.export_obj(**export_kwargs)
50   except Exception as e:
51       traceback.print_exc(file=sys.stdout)
```

Output from Python Code

```
1    Handler for Session to 172.16.31.128:444, Authenticated: True, Version: 6.2.314.3258
2    2014-12-07 01:24:28,414 INFO     question_progress: Results 0% (Get Computer Name from all machines)
3    2014-12-07 01:24:33,431 INFO     question_progress: Results 50% (Get Computer Name from all machines
4    2014-12-07 01:24:38,448 INFO     question_progress: Results 100% (Get Computer Name from all machine
5    Traceback (most recent call last):
6      File "<string>", line 49, in <module>
7      File "/Users/jolsen/gh/pytan/lib/pytan/handler.py", line 1339, in export_obj
8        utils.check_dictkey(**check_args)
9      File "/Users/jolsen/gh/pytan/lib/pytan/utils.py", line 2433, in check_dictkey
10       raise HandlerError(err(key, valid_types, k_type))
11   HandlerError: 'header_sort' must be one of [<type 'bool'>, <type 'list'>, <type 'tuple'>], you suppl
```

Invalid export resultset csv bad expand type

Export a ResultSet from asking a question using a bad expand_grouped_columns

Example Python Code

```
1    # Path to lib directory which contains pytan package
2    PYTAN_LIB_PATH = '../lib'
3
4    # connection info for Tanium Server
5    USERNAME = "Tanium User"
6    PASSWORD = "T@n!um"
7    HOST = "172.16.31.128"
8    PORT = "444"
9
10   # Logging conrols
11   LOGLEVEL = 2
12   DEBUGFORMAT = False
13
14   import sys, tempfile
15   sys.path.append(PYTAN_LIB_PATH)
16
17   import pytan
18   handler = pytan.Handler(
19       username=USERNAME,
20       password=PASSWORD,
21       host=HOST,
```

```
22          port=PORT,
23          loglevel=LOGLEVEL,
24          debugformat=DEBUGFORMAT,
25      )
26
27      print handler
28
29      # setup the export_obj kwargs for later
30      export_kwargs = {}
31      export_kwargs["export_format"] = u'csv'
32      export_kwargs["expand_grouped_columns"] = u'bad'
33
34      # ask the question that will provide the resultset that we want to use
35      ask_kwargs = {
36          'qtype': 'manual_human',
37          'sensors': [
38              "Computer Name"
39          ],
40      }
41      response = handler.ask(**ask_kwargs)
42      export_kwargs['obj'] = response['question_results']
43
44      # export the object to a string
45      # this should throw an exception: pytan.utils.HandlerError
46      import traceback
47
48      try:
49          handler.export_obj(**export_kwargs)
50      except Exception as e:
51          traceback.print_exc(file=sys.stdout)
```

Output from Python Code

```
1   Handler for Session to 172.16.31.128:444, Authenticated: True, Version: 6.2.314.3258
2   2014-12-07 01:24:38,528 INFO     question_progress: Results 0% (Get Computer Name from all machines)
3   2014-12-07 01:24:43,544 INFO     question_progress: Results 50% (Get Computer Name from all machines
4   2014-12-07 01:24:48,562 INFO     question_progress: Results 100% (Get Computer Name from all machine
5   Traceback (most recent call last):
6     File "<string>", line 49, in <module>
7     File "/Users/jolsen/gh/pytan/lib/pytan/handler.py", line 1339, in export_obj
8       utils.check_dictkey(**check_args)
9     File "/Users/jolsen/gh/pytan/lib/pytan/utils.py", line 2433, in check_dictkey
10      raise HandlerError(err(key, valid_types, k_type))
11  HandlerError: 'expand_grouped_columns' must be one of [<type 'bool'>], you supplied <type 'unicode'>
```

Invalid export resultset csv bad sensors sub type

Export a ResultSet from asking a question using a bad sensors

Example Python Code

```
1   # Path to lib directory which contains pytan package
2   PYTAN_LIB_PATH = '../lib'
3
```

```
4   # connection info for Tanium Server
5   USERNAME = "Tanium User"
6   PASSWORD = "T@n!um"
7   HOST = "172.16.31.128"
8   PORT = "444"
9
10  # Logging conrols
11  LOGLEVEL = 2
12  DEBUGFORMAT = False
13
14  import sys, tempfile
15  sys.path.append(PYTAN_LIB_PATH)
16
17  import pytan
18  handler = pytan.Handler(
19      username=USERNAME,
20      password=PASSWORD,
21      host=HOST,
22      port=PORT,
23      loglevel=LOGLEVEL,
24      debugformat=DEBUGFORMAT,
25  )
26
27  print handler
28
29  # setup the export_obj kwargs for later
30  export_kwargs = {}
31  export_kwargs["export_format"] = u'csv'
32  export_kwargs["sensors"] = [[]]
33  export_kwargs["header_add_sensor"] = True
34
35  # ask the question that will provide the resultset that we want to use
36  ask_kwargs = {
37      'qtype': 'manual_human',
38      'sensors': [
39          "Computer Name"
40      ],
41  }
42  response = handler.ask(**ask_kwargs)
43  export_kwargs['obj'] = response['question_results']
44
45  # export the object to a string
46  # this should throw an exception: pytan.utils.HandlerError
47  import traceback
48
49  try:
50      handler.export_obj(**export_kwargs)
51  except Exception as e:
52      traceback.print_exc(file=sys.stdout)
```

Output from Python Code

```
1   Handler for Session to 172.16.31.128:444, Authenticated: True, Version: 6.2.314.3258
2   2014-12-07 01:24:48,636 INFO     question_progress: Results 0% (Get Computer Name from all machines)
3   2014-12-07 01:24:53,650 INFO     question_progress: Results 0% (Get Computer Name from all machines)
4   2014-12-07 01:24:58,665 INFO     question_progress: Results 100% (Get Computer Name from all machine
5   Traceback (most recent call last):
```

```
6     File "<string>", line 50, in <module>
7     File "/Users/jolsen/gh/pytan/lib/pytan/handler.py", line 1339, in export_obj
8       utils.check_dictkey(**check_args)
9     File "/Users/jolsen/gh/pytan/lib/pytan/utils.py", line 2440, in check_dictkey
10      raise HandlerError(err(key, valid_list_types, list_types))
11  HandlerError: 'sensors' must be a list of [<class 'taniumpy.object_types.sensor.Sensor'>], you suppl
```

Invalid export resultset bad format

Export a ResultSet from asking a question using a bad export_format

Example Python Code

```python
1   # Path to lib directory which contains pytan package
2   PYTAN_LIB_PATH = '../lib'
3
4   # connection info for Tanium Server
5   USERNAME = "Tanium User"
6   PASSWORD = "T@n!um"
7   HOST = "172.16.31.128"
8   PORT = "444"
9
10  # Logging conrols
11  LOGLEVEL = 2
12  DEBUGFORMAT = False
13
14  import sys, tempfile
15  sys.path.append(PYTAN_LIB_PATH)
16
17  import pytan
18  handler = pytan.Handler(
19      username=USERNAME,
20      password=PASSWORD,
21      host=HOST,
22      port=PORT,
23      loglevel=LOGLEVEL,
24      debugformat=DEBUGFORMAT,
25  )
26
27  print handler
28
29  # setup the export_obj kwargs for later
30  export_kwargs = {}
31  export_kwargs["export_format"] = u'bad'
32
33  # ask the question that will provide the resultset that we want to use
34  ask_kwargs = {
35      'qtype': 'manual_human',
36      'sensors': [
37          "Computer Name"
38      ],
39  }
40  response = handler.ask(**ask_kwargs)
41  export_kwargs['obj'] = response['question_results']
42
```

```
43    # export the object to a string
44    # this should throw an exception: pytan.utils.HandlerError
45    import traceback
46
47    try:
48        handler.export_obj(**export_kwargs)
49    except Exception as e:
50        traceback.print_exc(file=sys.stdout)
```

Output from Python Code

```
1     Handler for Session to 172.16.31.128:444, Authenticated: True, Version: 6.2.314.3258
2     2014-12-07 01:24:58,742 INFO     question_progress: Results 0% (Get Computer Name from all machines)
3     2014-12-07 01:25:03,753 INFO     question_progress: Results 0% (Get Computer Name from all machines)
4     2014-12-07 01:25:08,770 INFO     question_progress: Results 0% (Get Computer Name from all machines)
5     2014-12-07 01:25:13,785 INFO     question_progress: Results 100% (Get Computer Name from all machine
6     Traceback (most recent call last):
7       File "<string>", line 48, in <module>
8       File "/Users/jolsen/gh/pytan/lib/pytan/handler.py", line 1333, in export_obj
9         raise HandlerError(err)
10    HandlerError: u'bad' not a supported export format for ResultSet, must be one of: json, csv
```

pytan API Valid Export BaseType Examples

Export basetype csv default options

Export a BaseType from getting objects as CSV with the default options

Example Python Code

```
1     # Path to lib directory which contains pytan package
2     PYTAN_LIB_PATH = '../lib'
3
4     # connection info for Tanium Server
5     USERNAME = "Tanium User"
6     PASSWORD = "T@n!um"
7     HOST = "172.16.31.128"
8     PORT = "444"
9
10    # Logging conrols
11    LOGLEVEL = 2
12    DEBUGFORMAT = False
13
14    import sys, tempfile
15    sys.path.append(PYTAN_LIB_PATH)
16
17    import pytan
18    handler = pytan.Handler(
19        username=USERNAME,
20        password=PASSWORD,
21        host=HOST,
22        port=PORT,
23        loglevel=LOGLEVEL,
24        debugformat=DEBUGFORMAT,
```

```
25  )
26
27  print handler
28
29  # setup the export_obj kwargs for later
30  export_kwargs = {}
31  export_kwargs["export_format"] = u'csv'
32
33  # get the objects that will provide the basetype that we want to use
34  get_kwargs = {
35      'name': [
36          "Computer Name", "IP Route Details", "IP Address",
37          'Folder Name Search with RegEx Match',
38      ],
39      'objtype': 'sensor',
40  }
41  response = handler.get(**get_kwargs)
42
43  # export the object to a string
44  # (we could just as easily export to a file using export_to_report_file)
45  export_kwargs['obj'] = response
46  export_str = handler.export_obj(**export_kwargs)
47
48
49  print ""
50  print "print the export_str returned from export_obj():"
51  print export_str
```

Output from Python Code

```
1   Handler for Session to 172.16.31.128:444, Authenticated: True, Version: 6.2.314.3258
2
3   print the export_str returned from export_obj():
4   category,creation_time,delimiter,description,exclude_from_parse_flag,hash,hidden_flag,id,ignore_case
5   Reserved,,,"The assigned name of the client machine.
6   Example: workstation-1.company.com",0,3409330187,0,3,1,,86400,,,,,Computer Name,,Windows,select CSNa
7   Network,2014-12-06T18:00:24,|,"Returns IPv4 network routes, filtered to exclude noise. With Flags, M
8   Example:  172.16.0.0|192.168.1.1|255.255.0.0|UG|100|eth0",1,435227963,0,737,1,Jim Olsen,60,0,defined
9   Set objWMIService = GetObject(&quot;winmgmts:&quot; _
10      &amp; &quot;{impersonationLevel=impersonate}!\\&quot; &amp; strComputer &amp; &quot;\root\cimv2&
11
12  Set collip = objWMIService.ExecQuery(&quot;select * from win32_networkadapterconfiguration where IPE
13  dim ipaddrs()
14  ipcount = 0
15  for each ipItem in collip
16      for each ipaddr in ipItem.IPAddress
17          ipcount = ipcount + 1
18      next
19  next
20  redim ipaddrs(ipcount)
21  ipcount = 0
22  for each ipItem in collip
23      for each ipaddr in ipItem.IPAddress
24          ipcount = ipcount + 1
25          ipaddrs(ipcount) = ipaddr
26      next
27  next
```

```
28   localhost = &quot;127.0.0.1&quot;
29
30   Set colItems = objWMIService.ExecQuery(&quot;Select * from Win32_IP4RouteTable&quot;)
31
32   For Each objItem in colItems
33       dest = objItem.Destination
34       gw = objItem.NextHop
35       mask = objItem.Mask
36       metric = objItem.Metric1
37       flags = objItem.Type
38       intf = objItem.InterfaceIndex
39       For i = 0 to ipcount
40           if gw = ipaddrs(i) and gw &lt;&gt; localhost then
41               gw = &quot;0.0.0.0&quot;
42           end if
43       Next
44       if gw &lt;&gt; localhost and dest &lt;&gt; &quot;224.0.0.0&quot; and right(dest,3) &lt;&gt; &quo
45           Wscript.Echo dest &amp; &quot;|&quot; &amp; gw &amp; &quot;|&quot; &amp; mask &amp; &quot;|&
46       end if
47   Next",VBScript,Linux,"route -n | grep -v Kernel | grep -v Destination | awk &#039;{ print $1 &quot;|
48   ",UnixShell,Mac,"netstat -rn | grep -v &quot;:&quot; | grep -v Destination | grep -v Routing | grep
49   ",UnixShell,0,48,0,1,0,Destination,IPAddress,0,1,1,Gateway,IPAddress,0,1,2,Mask,String,0,1,3,Flags,S
50   Network,2014-12-06T18:00:22,",","Current IP Addresses of client machine.
51   Example: 192.168.1.1",1,3209138996,0,147,1,Jim Olsen,600,0,defined,Tanium,2014-12-06T18:00:22,IP Add
52   ifconfig | grep -w inet | grep -v 127.0.0.1 | awk &#039;{print $2}&#039; | sed -e &#039;s/addr://&#0
53   ",UnixShell,Mac,"#!/bin/bash
54
55   ifconfig -a -u |grep &quot;inet&quot; | grep -v &quot;::1&quot; | grep -v &quot;127.0.0.1&quot;| awk
56   ",UnixShell,0,86,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,IPAddress
57   File System,2014-12-06T18:00:23,",","Finds the specified folder and provides the full path if the fo
58   Example: C:\WINDOWS\System32",1,1374547302,0,381,1,Jim Olsen,600,0,defined,McAfee,2014-12-06T18:00:2
59   &#039; Folder Name Search with RegEx Match
60   &#039;======================================
61   &#039;@INCLUDE=utils/SensorRandomization/SensorRandomizationFunctions.vbs
62   Option Explicit
63
64   SensorRandomize()
65
66   Dim Pattern,strRegExp,strGlobalArg,strCaseSensitiveArg
67   Dim bGlobal,bCaseSensitive
68
69   Pattern = unescape(&quot;||dirname||&quot;)
70   strRegExp = Trim(Unescape(&quot;||regexp||&quot;))
71   strGlobalArg = Trim(Unescape(&quot;||global||&quot;))
72   strCaseSensitiveArg = Trim(Unescape(&quot;||casesensitive||&quot;))
73
74   bGlobal = GetTrueFalseArg(&quot;global&quot;,strGlobalArg)
75   bCaseSensitive = GetTrueFalseArg(&quot;casesensitive&quot;,strCaseSensitiveArg)
76
77   Const SYSTEM_FOLDER = 1, TEMP_FOLDER = 2, FOR_READING = 1
78
79   Dim FSO, WshShell, Drives, Drive, TextStream, OutputFilename, strLine
80
81   Set FSO = CreateObject(&quot;Scripting.FileSystemObject&quot;)
82   Set WshShell = CreateObject(&quot;WScript.Shell&quot;)
83
84   OutputFilename = TempName() &#039; a temporary file in system&#039;s temp dir
85
```

```
86    ' Go through file system, refresh output file for filename
87    If Not FSO.FileExists(OutputFilename) Then
88
89        If FSO.FileExists(OutputFilename) Then FSO.DeleteFile OutputFilename
90
91        ' Get the collection of local drives.
92        Set Drives = FSO.Drives
93        For Each Drive in Drives
94                If Drive.DriveType = 2 Then ' 2 = Fixed drive
95                        ' Run the Dir command that looks for the filename pattern.
96                        RunCommand "dir " &Chr(34)&amp; Drive.DriveLetter &amp; ":\&q
97                End If
98        Next
99    End If
100
101   ' Open the output file, echo each line, and then close and delete it.
102   Set TextStream = FSO.OpenTextFile(OutputFileName, FOR_READING)
103   Do While Not TextStream.AtEndOfStream
104       strLine = TextStream.ReadLine()
105       If RegExpMatch(strRegExp,strLine,bGlobal,bCaseSensitive) Then
106               WScript.Echo strLine
107       End If
108   Loop
109
110
111   TextStream.Close()
112
113   If FSO.FileExists(OutputFileName) Then
114       On Error Resume Next
115       FSO.DeleteFile OutputFileName, True
116       On Error Goto 0
117   End If
118
119   Function RegExpMatch(strPattern,strToMatch,bGlobal,bIsCaseSensitive)
120
121       Dim re
122       Set re = New RegExp
123       With re
124         .Pattern = strPattern
125         .Global = bGlobal
126         .IgnoreCase = Not bIsCaseSensitive
127       End With
128
129       RegExpMatch = re.Test(strToMatch)
130
131   End Function 'RegExpMatch
132
133
134   Function GetTrueFalseArg(strArgName,strArgValue)
135       ' Checks for valid values, will fail with error message
136
137       Dim bArgVal
138       bArgVal = False
139       Select Case LCase(strArgValue)
140               Case "true"
141                       bArgVal = True
142               Case "yes"
143                       bArgVal = True
```

```
144                 Case &quot;false&quot;
145                     bArgVal = False
146                 Case &quot;no&quot;
147                     bArgVal = False
148                 Case Else
149                     WScript.Echo &quot;Error: Argument &#039;&quot;&amp;strArgName&amp;&quot;&#039;
150                     PrintUsage
151         End Select
152         GetTrueFalseArg = bArgVal
153
154     End Function &#039;GetTrueFalseArg
155
156
157     &#039; Returns the name of a temporary file in the Temp directory.
158     Function TempName()
159         Dim Result
160         Do
161                 Result = FSO.BuildPath(FSO.GetSpecialFolder(TEMP_FOLDER), FSO.GetTempName())
162                 WScript.Sleep 200 &#039;avoid potential busy loop
163         Loop While FSO.FileExists(Result)
164
165         TempName = Result
166     End Function &#039;TempName
167
168     &#039; Runs a command with Cmd.exe and redirects its output to a temporary
169     &#039; file. The function returns the name of the temporary file that holds
170     &#039; the command&#039;s output.
171     Function RunCommand(Command, OutputFilename, b64BitNecessary)
172         &#039; 64BitNecessary true when you need to examine the 64-bit areas like system32
173         Dim CommandLine,WshShell,strPRogramFilesx86,strDOSCall,objFSO
174         Set objFSO = CreateObject(&quot;Scripting.FileSystemObject&quot;)
175         Set WshShell = CreateObject(&quot;WScript.Shell&quot;)
176
177         strDOSCall = &quot;%ComSpec% /C &quot;
178
179         &#039; if 64-bit OS *and* we must examine in 64-bit mode to avoid FS Redirection
180         strProgramFilesx86=WshShell.ExpandEnvironmentStrings(&quot;%ProgramFiles%&quot;)
181         If objFSO.FolderExists(strProgramFilesx86) And b64BitNecessary Then &#039; quick check for x64
182                 strDOSCall = FixFileSystemRedirectionForPath(WshShell.ExpandEnvironmentStrings(strDOSCal
183         End If
184
185         CommandLine = WshShell.ExpandEnvironmentStrings(strDOSCall &amp; Command &amp; &quot; &gt;&gt; &
186         WshShell.Run CommandLine, 0, True
187     End Function &#039;RunCommand
188
189     Function FixFileSystemRedirectionForPath(strFilePath)
190     &#039; This function will fix a folder location so that
191     &#039; a 32-bit program can be passed the windows\system32 directory
192     &#039; as a parameter.
193     &#039; Even if the sensor or action runs in 64-bit mode, a 32-bit
194     &#039; program called in a 64-bit environment cannot access
195     &#039; the system32 directory - it would be redirected to syswow64.
196     &#039; you would not want to do this for 64-bit programs.
197
198         Dim objFSO, strSystem32Location,objShell
199         Dim strProgramFilesx86,strNewSystem32Location,strRestOfPath
200         Set objFSO = CreateObject(&quot;Scripting.FileSystemObject&quot;)
201         Set objShell = CreateObject(&quot;Wscript.Shell&quot;)
```

```
202
203        strProgramFilesx86=objShell.ExpandEnvironmentStrings(&quot;%ProgramFiles%&quot;)
204
205        strFilePath = LCase(strFilePath)
206        strSystem32Location = LCase(objFSO.GetSpecialFolder(1))
207        strProgramFilesx86=objShell.ExpandEnvironmentStrings(&quot;%ProgramFiles(x86)%&quot;)
208
209        If objFSO.FolderExists(strProgramFilesx86) Then &#039; quick check for x64
210                If InStr(strFilePath,strSystem32Location) = 1 Then
211                        strRestOfPath = Replace(strFilePath,strSystem32Location,&quot;&quot;)
212                        strNewSystem32Location = Replace(strSystem32Location,&quot;system32&quot;,&quot;
213                        strFilePath = strNewSystem32Location&amp;strRestOfPath
214                End If
215        End If
216        FixFileSystemRedirectionForPath = strFilePath
217
218        &#039;Cleanup
219        Set objFSO = Nothing
220    End Function &#039;FixFileSystemRedirectionForPath
221    &#039;------------ INCLUDES after this line. Do not edit past this point -----
222    &#039;- Begin file: utils/SensorRandomization/SensorRandomizationFunctions.vbs
223    &#039;&#039; -- Begin Random Sleep Functions -- &#039;&#039;
224
225    Dim bSensorRandomizeDebugOutput : bSensorRandomizeDebugOutput = False
226
227    Function SensorRandomizeLow()
228        Dim intSensorRandomizeWaitLow : intSensorRandomizeWaitLow = 10
229        SensorRandomizeRandomSleep(intSensorRandomizeWaitLow)
230    End Function &#039; SensorRandomizeLow
231
232    Function SensorRandomize()
233        Dim intSensorRandomizeWaitMed : intSensorRandomizeWaitMed = 20
234        SensorRandomizeRandomSleep(intSensorRandomizeWaitMed)
235    End Function &#039; SensorRandomize
236
237    Function SensorRandomizeHigh()
238        Dim intSensorRandomizeWaitHigh : intSensorRandomizeWaitHigh = 30
239        SensorRandomizeRandomSleep(intSensorRandomizeWaitHigh)
240    End Function &#039; SensorRandomize
241
242    Function SensorRandomizeRandomSleep(intSleepTime)
243    &#039; sleeps for a random period of time, intSleepTime is in seconds
244    &#039; if the sensor randomize flag is on
245    &#039; RandomizeScalingFactor is a multiplier on the values hardcoded in the sensor
246    &#039; not typically set but can adjust timings per endpoint, optionally
247        Dim intSensorRandomizeWaitTime
248        Dim objShell,intRandomizeFlag,strRandomizeRegPath,intRandomizeScalingPercentage
249        strRandomizeRegPath = SensorRandomizeGetTaniumRegistryPath&amp;&quot;\Sensor Data\Random Sleep&q
250
251        Set objShell = CreateObject(&quot;WScript.Shell&quot;)
252        On Error Resume Next
253        intRandomizeFlag = objShell.RegRead(&quot;HKLM\&quot;&amp;strRandomizeRegPath&amp;&quot;\SensorR
254        intRandomizeScalingPercentage = objShell.RegRead(&quot;HKLM\&quot;&amp;strRandomizeRegPath&amp;&
255        On Error Goto 0
256        If intRandomizeFlag &gt; 0 Then
257                If intRandomizeScalingPercentage &gt; 0 Then
258                        intSleepTime = intRandomizeScalingPercentage * .01 * intSleepTime
259                        SensorRandomizeEcho &quot;Randomize scaling percentage of &quot; _
```

```
260                                        &amp; intRandomizeScalingPercentage &amp; &quot; applied, new sleep time
261              End If
262              intSensorRandomizeWaitTime = CLng(intSleepTime) * 1000 &#039; convert to milliseconds
263              &#039; wait random interval between 0 and the max
264              Randomize(SensorRandomizeTaniumRandomSeed)
265              &#039; assign random value to wait time max value
266              intSensorRandomizeWaitTime = Int( ( intSensorRandomizeWaitTime + 1 ) * Rnd )
267              SensorRandomizeEcho &quot;Sleeping for &quot; &amp; intSensorRandomizeWaitTime &amp; &qu
268              WScript.Sleep(intSensorRandomizeWaitTime)
269              SensorRandomizeEcho &quot;Done sleeping, continuing ...&quot;
270      Else
271              SensorRandomizeEcho &quot;SensorRandomize Not Enabled - No Op&quot;
272      End If
273  End Function &#039;SensorRandomizeRandomSleep
274
275  Function SensorRandomizeTaniumRandomSeed
276  &#039; for randomizing sensor code, the default seed is not random enough
277      Dim timerNum
278      timerNum = Timer()
279      If timerNum &lt; 1 Then
280              SensorRandomizeTaniumRandomSeed = (SensorRandomizeGetTaniumComputerID / Timer() * 10 )
281      Else
282              SensorRandomizeTaniumRandomSeed = SensorRandomizeGetTaniumComputerID / Timer
283      End If
284  End Function &#039;SensorRandomizeTaniumRandomSeed
285
286  Function SensorRandomizeGetTaniumRegistryPath
287  &#039;SensorRandomizeGetTaniumRegistryPath works in x64 or x32
288  &#039;looks for a valid Path value
289
290      Dim objShell
291      Dim keyNativePath, keyWoWPath, strPath, strFoundTaniumRegistryPath
292
293      Set objShell = CreateObject(&quot;WScript.Shell&quot;)
294
295      keyNativePath = &quot;Software\Tanium\Tanium Client&quot;
296      keyWoWPath = &quot;Software\Wow6432Node\Tanium\Tanium Client&quot;
297
298      &#039; first check the Software key (valid for 32-bit machines, or 64-bit machines in 32-bit mod
299      On Error Resume Next
300      strPath = objShell.RegRead(&quot;HKLM\&quot;&amp;keyNativePath&amp;&quot;\Path&quot;)
301      On Error Goto 0
302      strFoundTaniumRegistryPath = keyNativePath
303
304      If strPath = &quot;&quot; Then
305              &#039; Could not find 32-bit mode path, checking Wow6432Node
306              On Error Resume Next
307              strPath = objShell.RegRead(&quot;HKLM\&quot;&amp;keyWoWPath&amp;&quot;\Path&quot;)
308              On Error Goto 0
309              strFoundTaniumRegistryPath = keyWoWPath
310      End If
311
312      If Not strPath = &quot;&quot; Then
313              SensorRandomizeGetTaniumRegistryPath = strFoundTaniumRegistryPath
314      Else
315              SensorRandomizeGetTaniumRegistryPath = False
316              WScript.Echo &quot;Error: Cannot locate Tanium Registry Path&quot;
317      End If
```

```
318   End Function &#039;SensorRandomizeGetTaniumRegistryPath
319
320   Function SensorRandomizeGetTaniumComputerID
321   &#039;&#039; This function gets the Tanium Computer ID
322       Dim objShell
323       Dim intClientID,strID,strKeyPath,strValueName
324
325       strKeyPath = SensorRandomizeGetTaniumRegistryPath
326       strValueName = &quot;ComputerID&quot;
327       Set objShell = CreateObject(&quot;WScript.Shell&quot;)
328       On Error Resume Next
329       intClientID = objShell.RegRead(&quot;HKLM\&quot;&amp;strKeyPath&amp;&quot;\&quot;&amp;strValueNa
330       If Err.Number &lt;&gt; 0 Then
331               SensorRandomizeGetTaniumComputerID = 0
332       Else
333               SensorRandomizeGetTaniumComputerID = SensorRandomizeReinterpretSignedAsUnsigned(intClien
334       End If
335       On Error Goto 0
336   End Function &#039;SensorRandomizeGetTaniumComputerID
337
338   Function SensorRandomizeReinterpretSignedAsUnsigned(ByVal x)
339        If x &lt; 0 Then x = x + 2^32
340        SensorRandomizeReinterpretSignedAsUnsigned = x
341   End Function &#039;SensorRandomizeReinterpretSignedAsUnsigned
342
343   Sub SensorRandomizeEcho(str)
344       If bSensorRandomizeDebugOutput = true Then WScript.Echo str
345   End Sub &#039;SensorRandomizeEcho
346   &#039; -- End Random Sleep Functions --&#039;
347   &#039;- End file: utils/SensorRandomization/SensorRandomizationFunctions.vbs",VBScript,Linux,"#!/bin
348   #||dirname||||regexp||||casesensitive||||global||
349   echo Windows Only
350   ",UnixShell,Mac,"#!/bin/bash
351   #||dirname||||regexp||||casesensitive||||global||
352   echo Windows Only
353   ",UnixShell,0,3,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,String
```

Export basetype json type false

Export a BaseType from getting objects as JSON with false for include_type

Example Python Code

```python
1    # Path to lib directory which contains pytan package
2    PYTAN_LIB_PATH = '../lib'
3
4    # connection info for Tanium Server
5    USERNAME = "Tanium User"
6    PASSWORD = "T@n!um"
7    HOST = "172.16.31.128"
8    PORT = "444"
9
10   # Logging conrols
11   LOGLEVEL = 2
12   DEBUGFORMAT = False
```

```
13
14   import sys, tempfile
15   sys.path.append(PYTAN_LIB_PATH)
16
17   import pytan
18   handler = pytan.Handler(
19       username=USERNAME,
20       password=PASSWORD,
21       host=HOST,
22       port=PORT,
23       loglevel=LOGLEVEL,
24       debugformat=DEBUGFORMAT,
25   )
26
27   print handler
28
29   # setup the export_obj kwargs for later
30   export_kwargs = {}
31   export_kwargs["export_format"] = u'json'
32   export_kwargs["include_type"] = False
33
34   # get the objects that will provide the basetype that we want to use
35   get_kwargs = {
36       'name': [
37           "Computer Name", "IP Route Details", "IP Address",
38           'Folder Name Search with RegEx Match',
39       ],
40       'objtype': 'sensor',
41   }
42   response = handler.get(**get_kwargs)
43
44   # export the object to a string
45   # (we could just as easily export to a file using export_to_report_file)
46   export_kwargs['obj'] = response
47   export_str = handler.export_obj(**export_kwargs)
48
49
50   print ""
51   print "print the export_str returned from export_obj():"
52   print export_str
```

Output from Python Code

```
1    Handler for Session to 172.16.31.128:444, Authenticated: True, Version: 6.2.314.3258
2
3    print the export_str returned from export_obj():
4    {
5      "sensor": [
6        {
7          "category": "Reserved",
8          "description": "The assigned name of the client machine.\nExample: workstation-1.company.com",
9          "exclude_from_parse_flag": 0,
10         "hash": 3409330187,
11         "hidden_flag": 0,
12         "id": 3,
13         "ignore_case_flag": 1,
14         "max_age_seconds": 86400,
```

```
15          "name": "Computer Name",
16          "queries": {
17            "query": [
18              {
19                "platform": "Windows",
20                "script": "select CSName from win32_operatingsystem",
21                "script_type": "WMIQuery"
22              }
23            ]
24          },
25          "source_id": 0,
26          "string_count": 7,
27          "value_type": "String"
28        },
29        {
30          "category": "Network",
31          "creation_time": "2014-12-06T18:00:24",
32          "delimiter": "|",
33          "description": "Returns IPv4 network routes, filtered to exclude noise. With Flags, Metric, In
34          "exclude_from_parse_flag": 1,
35          "hash": 435227963,
36          "hidden_flag": 0,
37          "id": 737,
38          "ignore_case_flag": 1,
39          "last_modified_by": "Jim Olsen",
40          "max_age_seconds": 60,
41          "metadata": {
42            "item": [
43              {
44                "admin_flag": 0,
45                "name": "defined",
46                "value": "Tanium"
47              }
48            ]
49          },
50          "modification_time": "2014-12-06T18:00:24",
51          "name": "IP Route Details",
52          "queries": {
53            "query": [
54              {
55                "platform": "Windows",
56                "script": "strComputer = &quot;.&quot;\nSet objWMIService = GetObject(&quot;winmgmts:&qu
57                "script_type": "VBScript"
58              },
59              {
60                "platform": "Linux",
61                "script": "route -n | grep -v Kernel | grep -v Destination | awk &#039;{ print $1 &quot;
62                "script_type": "UnixShell"
63              },
64              {
65                "platform": "Mac",
66                "script": "netstat -rn | grep -v &quot;:&quot; | grep -v Destination | grep -v Routing |
67                "script_type": "UnixShell"
68              }
69            ]
70          },
71          "source_id": 0,
72          "string_count": 48,
```

```
 73          "subcolumns": {
 74            "subcolumn": [
 75                {
 76                  "hidden_flag": 0,
 77                  "ignore_case_flag": 1,
 78                  "index": 0,
 79                  "name": "Destination",
 80                  "value_type": "IPAddress"
 81                },
 82                {
 83                  "hidden_flag": 0,
 84                  "ignore_case_flag": 1,
 85                  "index": 1,
 86                  "name": "Gateway",
 87                  "value_type": "IPAddress"
 88                },
 89                {
 90                  "hidden_flag": 0,
 91                  "ignore_case_flag": 1,
 92                  "index": 2,
 93                  "name": "Mask",
 94                  "value_type": "String"
 95                },
 96                {
 97                  "hidden_flag": 0,
 98                  "ignore_case_flag": 1,
 99                  "index": 3,
100                  "name": "Flags",
101                  "value_type": "String"
102                },
103                {
104                  "hidden_flag": 0,
105                  "ignore_case_flag": 1,
106                  "index": 4,
107                  "name": "Metric",
108                  "value_type": "NumericInteger"
109                },
110                {
111                  "hidden_flag": 0,
112                  "ignore_case_flag": 1,
113                  "index": 5,
114                  "name": "Interface",
115                  "value_type": "String"
116                }
117            ]
118          },
119          "value_type": "String"
120        },
121        {
122          "category": "Network",
123          "creation_time": "2014-12-06T18:00:22",
124          "delimiter": ",",
125          "description": "Current IP Addresses of client machine.\nExample: 192.168.1.1",
126          "exclude_from_parse_flag": 1,
127          "hash": 3209138996,
128          "hidden_flag": 0,
129          "id": 147,
130          "ignore_case_flag": 1,
```

```
131          "last_modified_by": "Jim Olsen",
132          "max_age_seconds": 600,
133          "metadata": {
134            "item": [
135              {
136                "admin_flag": 0,
137                "name": "defined",
138                "value": "Tanium"
139              }
140            ]
141          },
142          "modification_time": "2014-12-06T18:00:22",
143          "name": "IP Address",
144          "queries": {
145            "query": [
146              {
147                "platform": "Windows",
148                "script": "select IPAddress from win32_networkadapterconfiguration where IPEnabled=&#039
149                "script_type": "WMIQuery"
150              },
151              {
152                "platform": "Linux",
153                "script": "#!/bin/bash\nifconfig | grep -w inet | grep -v 127.0.0.1 | awk &#039;{print $
154                "script_type": "UnixShell"
155              },
156              {
157                "platform": "Mac",
158                "script": "#!/bin/bash\n\nifconfig -a -u |grep &quot;inet&quot; | grep -v &quot;::1&quot
159                "script_type": "UnixShell"
160              }
161            ]
162          },
163          "source_id": 0,
164          "string_count": 86,
165          "value_type": "IPAddress"
166        },
167        {
168          "category": "File System",
169          "creation_time": "2014-12-06T18:00:23",
170          "delimiter": ",",
171          "description": "Finds the specified folder and provides the full path if the folder exists on
172          "exclude_from_parse_flag": 1,
173          "hash": 1374547302,
174          "hidden_flag": 0,
175          "id": 381,
176          "ignore_case_flag": 1,
177          "last_modified_by": "Jim Olsen",
178          "max_age_seconds": 600,
179          "metadata": {
180            "item": [
181              {
182                "admin_flag": 0,
183                "name": "defined",
184                "value": "McAfee"
185              }
186            ]
187          },
188          "modification_time": "2014-12-06T18:00:23",
```

```
189        "name": "Folder Name Search with RegEx Match",
190        "parameter_definition": "{\"parameters\":[{\"restrict\":null,\"validationExpressions\":[{\"fla
191        "queries": {
192          "query": [
193            {
194              "platform": "Windows",
195              "script": "&#039;=======================================\n&#039; Folder Name Search wit
196              "script_type": "VBScript"
197            },
198            {
199              "platform": "Linux",
200              "script": "#!/bin/bash\n#||dirname||||regexp||||casesensitive||||global||\necho Windows
201              "script_type": "UnixShell"
202            },
203            {
204              "platform": "Mac",
205              "script": "#!/bin/bash\n#||dirname||||regexp||||casesensitive||||global||\necho Windows
206              "script_type": "UnixShell"
207            }
208          ]
209        },
210        "source_id": 0,
211        "string_count": 3,
212        "value_type": "String"
213      }
214    ]
215  }
```

Export basetype json explode false

Export a BaseType from getting objects as JSON with false for explode_json_string_values

Example Python Code

```python
1   # Path to lib directory which contains pytan package
2   PYTAN_LIB_PATH = '../lib'
3
4   # connection info for Tanium Server
5   USERNAME = "Tanium User"
6   PASSWORD = "T@n!um"
7   HOST = "172.16.31.128"
8   PORT = "444"
9
10  # Logging conrols
11  LOGLEVEL = 2
12  DEBUGFORMAT = False
13
14  import sys, tempfile
15  sys.path.append(PYTAN_LIB_PATH)
16
17  import pytan
18  handler = pytan.Handler(
19      username=USERNAME,
20      password=PASSWORD,
21      host=HOST,
```

```
22        port=PORT,
23        loglevel=LOGLEVEL,
24        debugformat=DEBUGFORMAT,
25    )
26
27    print handler
28
29    # setup the export_obj kwargs for later
30    export_kwargs = {}
31    export_kwargs["export_format"] = u'json'
32    export_kwargs["explode_json_string_values"] = False
33
34    # get the objects that will provide the basetype that we want to use
35    get_kwargs = {
36        'name': [
37            "Computer Name", "IP Route Details", "IP Address",
38            'Folder Name Search with RegEx Match',
39        ],
40        'objtype': 'sensor',
41    }
42    response = handler.get(**get_kwargs)
43
44    # export the object to a string
45    # (we could just as easily export to a file using export_to_report_file)
46    export_kwargs['obj'] = response
47    export_str = handler.export_obj(**export_kwargs)
48
49
50    print ""
51    print "print the export_str returned from export_obj():"
52    print export_str
```

Output from Python Code

```
1   Handler for Session to 172.16.31.128:444, Authenticated: True, Version: 6.2.314.3258
2
3   print the export_str returned from export_obj():
4   {
5     "_type": "sensors",
6     "sensor": [
7       {
8         "_type": "sensor",
9         "category": "Reserved",
10        "description": "The assigned name of the client machine.\nExample: workstation-1.company.com",
11        "exclude_from_parse_flag": 0,
12        "hash": 3409330187,
13        "hidden_flag": 0,
14        "id": 3,
15        "ignore_case_flag": 1,
16        "max_age_seconds": 86400,
17        "name": "Computer Name",
18        "queries": {
19          "_type": "queries",
20          "query": [
21            {
22              "_type": "query",
23              "platform": "Windows",
```

```
24              "script": "select CSName from win32_operatingsystem",
25              "script_type": "WMIQuery"
26            }
27          ]
28        },
29        "source_id": 0,
30        "string_count": 7,
31        "value_type": "String"
32      },
33      {
34        "_type": "sensor",
35        "category": "Network",
36        "creation_time": "2014-12-06T18:00:24",
37        "delimiter": "|",
38        "description": "Returns IPv4 network routes, filtered to exclude noise. With Flags, Metric, In
39        "exclude_from_parse_flag": 1,
40        "hash": 435227963,
41        "hidden_flag": 0,
42        "id": 737,
43        "ignore_case_flag": 1,
44        "last_modified_by": "Jim Olsen",
45        "max_age_seconds": 60,
46        "metadata": {
47          "_type": "metadata",
48          "item": [
49            {
50              "_type": "item",
51              "admin_flag": 0,
52              "name": "defined",
53              "value": "Tanium"
54            }
55          ]
56        },
57        "modification_time": "2014-12-06T18:00:24",
58        "name": "IP Route Details",
59        "queries": {
60          "_type": "queries",
61          "query": [
62            {
63              "_type": "query",
64              "platform": "Windows",
65              "script": "strComputer = &quot;.&quot;\nSet objWMIService = GetObject(&quot;winmgmts:&qu
66              "script_type": "VBScript"
67            },
68            {
69              "_type": "query",
70              "platform": "Linux",
71              "script": "route -n | grep -v Kernel | grep -v Destination | awk &#039;{ print $1 &quot;
72              "script_type": "UnixShell"
73            },
74            {
75              "_type": "query",
76              "platform": "Mac",
77              "script": "netstat -rn | grep -v &quot;:&quot; | grep -v Destination | grep -v Routing |
78              "script_type": "UnixShell"
79            }
80          ]
81        },
```

```
82          "source_id": 0,
83          "string_count": 48,
84          "subcolumns": {
85            "_type": "subcolumns",
86            "subcolumn": [
87              {
88                "_type": "subcolumn",
89                "hidden_flag": 0,
90                "ignore_case_flag": 1,
91                "index": 0,
92                "name": "Destination",
93                "value_type": "IPAddress"
94              },
95              {
96                "_type": "subcolumn",
97                "hidden_flag": 0,
98                "ignore_case_flag": 1,
99                "index": 1,
100               "name": "Gateway",
101               "value_type": "IPAddress"
102             },
103             {
104               "_type": "subcolumn",
105               "hidden_flag": 0,
106               "ignore_case_flag": 1,
107               "index": 2,
108               "name": "Mask",
109               "value_type": "String"
110             },
111             {
112               "_type": "subcolumn",
113               "hidden_flag": 0,
114               "ignore_case_flag": 1,
115               "index": 3,
116               "name": "Flags",
117               "value_type": "String"
118             },
119             {
120               "_type": "subcolumn",
121               "hidden_flag": 0,
122               "ignore_case_flag": 1,
123               "index": 4,
124               "name": "Metric",
125               "value_type": "NumericInteger"
126             },
127             {
128               "_type": "subcolumn",
129               "hidden_flag": 0,
130               "ignore_case_flag": 1,
131               "index": 5,
132               "name": "Interface",
133               "value_type": "String"
134             }
135           ]
136         },
137         "value_type": "String"
138       },
139       {
```

```
140          "_type": "sensor",
141          "category": "Network",
142          "creation_time": "2014-12-06T18:00:22",
143          "delimiter": ",",
144          "description": "Current IP Addresses of client machine.\nExample: 192.168.1.1",
145          "exclude_from_parse_flag": 1,
146          "hash": 3209138996,
147          "hidden_flag": 0,
148          "id": 147,
149          "ignore_case_flag": 1,
150          "last_modified_by": "Jim Olsen",
151          "max_age_seconds": 600,
152          "metadata": {
153            "_type": "metadata",
154            "item": [
155              {
156                "_type": "item",
157                "admin_flag": 0,
158                "name": "defined",
159                "value": "Tanium"
160              }
161            ]
162          },
163          "modification_time": "2014-12-06T18:00:22",
164          "name": "IP Address",
165          "queries": {
166            "_type": "queries",
167            "query": [
168              {
169                "_type": "query",
170                "platform": "Windows",
171                "script": "select IPAddress from win32_networkadapterconfiguration where IPEnabled=&#039
172                "script_type": "WMIQuery"
173              },
174              {
175                "_type": "query",
176                "platform": "Linux",
177                "script": "#!/bin/bash\nifconfig | grep -w inet | grep -v 127.0.0.1 | awk &#039;{print $
178                "script_type": "UnixShell"
179              },
180              {
181                "_type": "query",
182                "platform": "Mac",
183                "script": "#!/bin/bash\n\nifconfig -a -u |grep &quot;inet&quot; | grep -v &quot;::1&quot
184                "script_type": "UnixShell"
185              }
186            ]
187          },
188          "source_id": 0,
189          "string_count": 86,
190          "value_type": "IPAddress"
191        },
192        {
193          "_type": "sensor",
194          "category": "File System",
195          "creation_time": "2014-12-06T18:00:23",
196          "delimiter": ",",
197          "description": "Finds the specified folder and provides the full path if the folder exists on
```

```
198          "exclude_from_parse_flag": 1,
199          "hash": 1374547302,
200          "hidden_flag": 0,
201          "id": 381,
202          "ignore_case_flag": 1,
203          "last_modified_by": "Jim Olsen",
204          "max_age_seconds": 600,
205          "metadata": {
206            "_type": "metadata",
207            "item": [
208              {
209                "_type": "item",
210                "admin_flag": 0,
211                "name": "defined",
212                "value": "McAfee"
213              }
214            ]
215          },
216          "modification_time": "2014-12-06T18:00:23",
217          "name": "Folder Name Search with RegEx Match",
218          "parameter_definition": "{\"parameters\":[{\"restrict\":null,\"validationExpressions\":[{\"fla
219          "queries": {
220            "_type": "queries",
221            "query": [
222              {
223                "_type": "query",
224                "platform": "Windows",
225                "script": "&#039;=======================================\n&#039; Folder Name Search wit
226                "script_type": "VBScript"
227              },
228              {
229                "_type": "query",
230                "platform": "Linux",
231                "script": "#!/bin/bash\n#||dirname||||regexp||||casesensitive||||global||\necho Windows
232                "script_type": "UnixShell"
233              },
234              {
235                "_type": "query",
236                "platform": "Mac",
237                "script": "#!/bin/bash\n#||dirname||||regexp||||casesensitive||||global||\necho Windows
238                "script_type": "UnixShell"
239              }
240            ]
241          },
242          "source_id": 0,
243          "string_count": 3,
244          "value_type": "String"
245        }
246      ]
247  }
```

Export basetype json explode true

Export a BaseType from getting objects as JSON with true for explode_json_string_values

Example Python Code

```
1   # Path to lib directory which contains pytan package
2   PYTAN_LIB_PATH = '../lib'
3
4   # connection info for Tanium Server
5   USERNAME = "Tanium User"
6   PASSWORD = "T@n!um"
7   HOST = "172.16.31.128"
8   PORT = "444"
9
10  # Logging conrols
11  LOGLEVEL = 2
12  DEBUGFORMAT = False
13
14  import sys, tempfile
15  sys.path.append(PYTAN_LIB_PATH)
16
17  import pytan
18  handler = pytan.Handler(
19      username=USERNAME,
20      password=PASSWORD,
21      host=HOST,
22      port=PORT,
23      loglevel=LOGLEVEL,
24      debugformat=DEBUGFORMAT,
25  )
26
27  print handler
28
29  # setup the export_obj kwargs for later
30  export_kwargs = {}
31  export_kwargs["export_format"] = u'json'
32  export_kwargs["explode_json_string_values"] = True
33
34  # get the objects that will provide the basetype that we want to use
35  get_kwargs = {
36      'name': [
37          "Computer Name", "IP Route Details", "IP Address",
38          'Folder Name Search with RegEx Match',
39      ],
40      'objtype': 'sensor',
41  }
42  response = handler.get(**get_kwargs)
43
44  # export the object to a string
45  # (we could just as easily export to a file using export_to_report_file)
46  export_kwargs['obj'] = response
47  export_str = handler.export_obj(**export_kwargs)
48
49
50  print ""
51  print "print the export_str returned from export_obj():"
52  print export_str
```

Output from Python Code

```
1   Handler for Session to 172.16.31.128:444, Authenticated: True, Version: 6.2.314.3258
2
3   print the export_str returned from export_obj():
4   {
5     "_type": "sensors",
6     "sensor": [
7       {
8         "_type": "sensor",
9         "category": "Reserved",
10        "description": "The assigned name of the client machine.\nExample: workstation-1.company.com",
11        "exclude_from_parse_flag": 0,
12        "hash": 3409330187,
13        "hidden_flag": 0,
14        "id": 3,
15        "ignore_case_flag": 1,
16        "max_age_seconds": 86400,
17        "name": "Computer Name",
18        "queries": {
19          "_type": "queries",
20          "query": [
21            {
22              "_type": "query",
23              "platform": "Windows",
24              "script": "select CSName from win32_operatingsystem",
25              "script_type": "WMIQuery"
26            }
27          ]
28        },
29        "source_id": 0,
30        "string_count": 7,
31        "value_type": "String"
32      },
33      {
34        "_type": "sensor",
35        "category": "Network",
36        "creation_time": "2014-12-06T18:00:24",
37        "delimiter": "|",
38        "description": "Returns IPv4 network routes, filtered to exclude noise. With Flags, Metric, In
39        "exclude_from_parse_flag": 1,
40        "hash": 435227963,
41        "hidden_flag": 0,
42        "id": 737,
43        "ignore_case_flag": 1,
44        "last_modified_by": "Jim Olsen",
45        "max_age_seconds": 60,
46        "metadata": {
47          "_type": "metadata",
48          "item": [
49            {
50              "_type": "item",
51              "admin_flag": 0,
52              "name": "defined",
53              "value": "Tanium"
54            }
55          ]
56        },
57        "modification_time": "2014-12-06T18:00:24",
58        "name": "IP Route Details",
```

```
 59          "queries": {
 60            "_type": "queries",
 61            "query": [
 62              {
 63                "_type": "query",
 64                "platform": "Windows",
 65                "script": "strComputer = &quot;.&quot;\nSet objWMIService = GetObject(&quot;winmgmts:&qu
 66                "script_type": "VBScript"
 67              },
 68              {
 69                "_type": "query",
 70                "platform": "Linux",
 71                "script": "route -n | grep -v Kernel | grep -v Destination | awk &#039;{ print $1 &quot;
 72                "script_type": "UnixShell"
 73              },
 74              {
 75                "_type": "query",
 76                "platform": "Mac",
 77                "script": "netstat -rn | grep -v &quot;:&quot; | grep -v Destination | grep -v Routing |
 78                "script_type": "UnixShell"
 79              }
 80            ]
 81          },
 82          "source_id": 0,
 83          "string_count": 48,
 84          "subcolumns": {
 85            "_type": "subcolumns",
 86            "subcolumn": [
 87              {
 88                "_type": "subcolumn",
 89                "hidden_flag": 0,
 90                "ignore_case_flag": 1,
 91                "index": 0,
 92                "name": "Destination",
 93                "value_type": "IPAddress"
 94              },
 95              {
 96                "_type": "subcolumn",
 97                "hidden_flag": 0,
 98                "ignore_case_flag": 1,
 99                "index": 1,
100                "name": "Gateway",
101                "value_type": "IPAddress"
102              },
103              {
104                "_type": "subcolumn",
105                "hidden_flag": 0,
106                "ignore_case_flag": 1,
107                "index": 2,
108                "name": "Mask",
109                "value_type": "String"
110              },
111              {
112                "_type": "subcolumn",
113                "hidden_flag": 0,
114                "ignore_case_flag": 1,
115                "index": 3,
116                "name": "Flags",
```

```
117            "value_type": "String"
118          },
119          {
120            "_type": "subcolumn",
121            "hidden_flag": 0,
122            "ignore_case_flag": 1,
123            "index": 4,
124            "name": "Metric",
125            "value_type": "NumericInteger"
126          },
127          {
128            "_type": "subcolumn",
129            "hidden_flag": 0,
130            "ignore_case_flag": 1,
131            "index": 5,
132            "name": "Interface",
133            "value_type": "String"
134          }
135        ]
136      },
137      "value_type": "String"
138    },
139    {
140      "_type": "sensor",
141      "category": "Network",
142      "creation_time": "2014-12-06T18:00:22",
143      "delimiter": ",",
144      "description": "Current IP Addresses of client machine.\nExample: 192.168.1.1",
145      "exclude_from_parse_flag": 1,
146      "hash": 3209138996,
147      "hidden_flag": 0,
148      "id": 147,
149      "ignore_case_flag": 1,
150      "last_modified_by": "Jim Olsen",
151      "max_age_seconds": 600,
152      "metadata": {
153        "_type": "metadata",
154        "item": [
155          {
156            "_type": "item",
157            "admin_flag": 0,
158            "name": "defined",
159            "value": "Tanium"
160          }
161        ]
162      },
163      "modification_time": "2014-12-06T18:00:22",
164      "name": "IP Address",
165      "queries": {
166        "_type": "queries",
167        "query": [
168          {
169            "_type": "query",
170            "platform": "Windows",
171            "script": "select IPAddress from win32_networkadapterconfiguration where IPEnabled=&#039
172            "script_type": "WMIQuery"
173          },
174          {
```

```
175          "_type": "query",
176          "platform": "Linux",
177          "script": "#!/bin/bash\nifconfig | grep -w inet | grep -v 127.0.0.1 | awk &#039;{print $
178          "script_type": "UnixShell"
179        },
180        {
181          "_type": "query",
182          "platform": "Mac",
183          "script": "#!/bin/bash\n\nifconfig -a -u |grep &quot;inet&quot; | grep -v &quot;::1&quot
184          "script_type": "UnixShell"
185        }
186      ]
187    },
188    "source_id": 0,
189    "string_count": 86,
190    "value_type": "IPAddress"
191  },
192  {
193    "_type": "sensor",
194    "category": "File System",
195    "creation_time": "2014-12-06T18:00:23",
196    "delimiter": ",",
197    "description": "Finds the specified folder and provides the full path if the folder exists on
198    "exclude_from_parse_flag": 1,
199    "hash": 1374547302,
200    "hidden_flag": 0,
201    "id": 381,
202    "ignore_case_flag": 1,
203    "last_modified_by": "Jim Olsen",
204    "max_age_seconds": 600,
205    "metadata": {
206      "_type": "metadata",
207      "item": [
208        {
209          "_type": "item",
210          "admin_flag": 0,
211          "name": "defined",
212          "value": "McAfee"
213        }
214      ]
215    },
216    "modification_time": "2014-12-06T18:00:23",
217    "name": "Folder Name Search with RegEx Match",
218    "parameter_definition": {
219      "model": "com.tanium.components.parameters::ParametersArray",
220      "parameterType": "com.tanium.components.parameters::ParametersArray",
221      "parameters": [
222        {
223          "defaultValue": "",
224          "helpString": "Enter the folder name to search for",
225          "key": "dirname",
226          "label": "Search for Folder Name",
227          "maxChars": 0,
228          "model": "com.tanium.components.parameters::TextInputParameter",
229          "parameterType": "com.tanium.components.parameters::TextInputParameter",
230          "promptText": "e.g Program Files",
231          "restrict": null,
232          "validationExpressions": [
```

```
233                    {
234                      "expression": "\\S{3}",
235                      "flags": "",
236                      "helpString": "Value must be at least 3 characters",
237                      "model": "com.tanium.models::ValidationExpression",
238                      "parameterType": "com.tanium.models::ValidationExpression"
239                    }
240                  ],
241                  "value": ""
242                },
243                {
244                  "defaultValue": "",
245                  "helpString": "Enter the regular expression to search for.",
246                  "key": "regexp",
247                  "label": "Regular Expression",
248                  "maxChars": 0,
249                  "model": "com.tanium.components.parameters::TextInputParameter",
250                  "parameterType": "com.tanium.components.parameters::TextInputParameter",
251                  "promptText": "e.g. test*.exe",
252                  "restrict": null,
253                  "validationExpressions": [
254                    {
255                      "expression": "\\S{3}",
256                      "flags": "",
257                      "helpString": "Value must be at least 3 characters",
258                      "model": "com.tanium.models::ValidationExpression",
259                      "parameterType": "com.tanium.models::ValidationExpression"
260                    }
261                  ],
262                  "value": ""
263                },
264                {
265                  "defaultValue": "",
266                  "helpString": "Enter Yes/No for case sensitivity of search.",
267                  "key": "casesensitive",
268                  "label": "Case sensitive?",
269                  "model": "com.tanium.components.parameters::DropDownParameter",
270                  "parameterType": "com.tanium.components.parameters::DropDownParameter",
271                  "promptText": "",
272                  "requireSelection": true,
273                  "value": "",
274                  "values": [
275                    "No",
276                    "Yes"
277                  ]
278                },
279                {
280                  "defaultValue": "",
281                  "helpString": "Enter Yes/No whether the search is global.",
282                  "key": "global",
283                  "label": "Global",
284                  "model": "com.tanium.components.parameters::DropDownParameter",
285                  "parameterType": "com.tanium.components.parameters::DropDownParameter",
286                  "promptText": "",
287                  "requireSelection": true,
288                  "value": "",
289                  "values": [
290                    "No",
```

```
291              "Yes"
292            ]
293          }
294        ]
295      },
296      "queries": {
297        "_type": "queries",
298        "query": [
299          {
300            "_type": "query",
301            "platform": "Windows",
302            "script": "&#039;=======================================\n&#039; Folder Name Search wit
303            "script_type": "VBScript"
304          },
305          {
306            "_type": "query",
307            "platform": "Linux",
308            "script": "#!/bin/bash\n#||dirname||||regexp||||casesensitive||||global||\necho Windows
309            "script_type": "UnixShell"
310          },
311          {
312            "_type": "query",
313            "platform": "Mac",
314            "script": "#!/bin/bash\n#||dirname||||regexp||||casesensitive||||global||\necho Windows
315            "script_type": "UnixShell"
316          }
317        ]
318      },
319      "source_id": 0,
320      "string_count": 3,
321      "value_type": "String"
322    }
323  ]
324 }
```

Export basetype xml default options

Export a BaseType from getting objects as XML with the default options

Example Python Code

```python
1   # Path to lib directory which contains pytan package
2   PYTAN_LIB_PATH = '../lib'
3
4   # connection info for Tanium Server
5   USERNAME = "Tanium User"
6   PASSWORD = "T@n!um"
7   HOST = "172.16.31.128"
8   PORT = "444"
9
10  # Logging conrols
11  LOGLEVEL = 2
12  DEBUGFORMAT = False
13
14  import sys, tempfile
```

```
15   sys.path.append(PYTAN_LIB_PATH)
16
17   import pytan
18   handler = pytan.Handler(
19       username=USERNAME,
20       password=PASSWORD,
21       host=HOST,
22       port=PORT,
23       loglevel=LOGLEVEL,
24       debugformat=DEBUGFORMAT,
25   )
26
27   print handler
28
29   # setup the export_obj kwargs for later
30   export_kwargs = {}
31   export_kwargs["export_format"] = u'xml'
32
33   # get the objects that will provide the basetype that we want to use
34   get_kwargs = {
35       'name': [
36           "Computer Name", "IP Route Details", "IP Address",
37           'Folder Name Search with RegEx Match',
38       ],
39       'objtype': 'sensor',
40   }
41   response = handler.get(**get_kwargs)
42
43   # export the object to a string
44   # (we could just as easily export to a file using export_to_report_file)
45   export_kwargs['obj'] = response
46   export_str = handler.export_obj(**export_kwargs)
47
48
49   print ""
50   print "print the export_str returned from export_obj():"
51   print export_str
```

Output from Python Code

```
1    Handler for Session to 172.16.31.128:444, Authenticated: True, Version: 6.2.314.3258
2
3    print the export_str returned from export_obj():
4    <sensors><cache_info /><sensor><category>Reserved</category><preview_sensor_flag /><hash>3409330187<
5    Example: workstation-1.company.com</description><string_hints /><subcolumns /><metadata /><parameter
6    Example:  172.16.0.0|192.168.1.1|255.255.0.0|UG|100|eth0</description><string_hints /><subcolumns><s
7    Set objWMIService = GetObject(&quot;winmgmts:&quot; _
8        &amp; &quot;{impersonationLevel=impersonate}!\\&quot; &amp; strComputer &amp;
9
10   Set collip = objWMIService.ExecQuery(&quot;select * from win32_networkadapterconfiguration where
11   dim ipaddrs()
12   ipcount = 0
13   for each ipItem in collip
14       for each ipaddr in ipItem.IPAddress
15           ipcount = ipcount + 1
16       next
17   next
```

```
18    redim ipaddrs(ipcount)
19    ipcount = 0
20    for each ipItem in collip
21        for each ipaddr in ipItem.IPAddress
22            ipcount = ipcount + 1
23            ipaddrs(ipcount) = ipaddr
24        next
25    next
26    localhost = &amp;quot;127.0.0.1&amp;quot;
27
28    Set colItems = objWMIService.ExecQuery(&amp;quot;Select * from Win32_IP4RouteTable&amp;quot;)
29
30    For Each objItem in colItems
31        dest = objItem.Destination
32        gw = objItem.NextHop
33        mask = objItem.Mask
34        metric = objItem.Metric1
35        flags = objItem.Type
36        intf = objItem.InterfaceIndex
37        For i = 0 to ipcount
38            if gw = ipaddrs(i) and gw &amp;lt;&amp;gt; localhost then
39                gw = &amp;quot;0.0.0.0&amp;quot;
40            end if
41        Next
42        if gw &amp;lt;&amp;gt; localhost and dest &amp;lt;&amp;gt; &amp;quot;224.0.0.0&amp;quot; and rig
43            Wscript.Echo dest &amp;amp; &amp;quot;|&amp;quot; &amp;amp; gw &amp;amp; &amp;quot;|&amp;quo
44        end if
45    Next</script></query><query><platform>Linux</platform><script_type>UnixShell</script_type><signature
46    </script></query><query><platform>Mac</platform><script_type>UnixShell</script_type><signature /><sc
47    </script></query></queries></sensor><sensor><category>Network</category><preview_sensor_flag /><hash
48    Example: 192.168.1.1</description><string_hints /><subcolumns /><metadata><item><admin_flag>0</admin
49    ifconfig | grep -w inet | grep -v 127.0.0.1 | awk &amp;#039;{print $2}&amp;#039; | sed -e &amp;#039;
50    </script></query><query><platform>Mac</platform><script_type>UnixShell</script_type><signature /><sc
51
52    ifconfig -a -u |grep &amp;quot;inet&amp;quot; | grep -v &amp;quot;::1&amp;quot; | grep -v &amp;quot;
53    </script></query></queries></sensor><sensor><category>File System</category><preview_sensor_flag /><
54    Example: C:\WINDOWS\System32</description><string_hints /><subcolumns /><metadata><item><admin_flag>
55    &amp;#039; Folder Name Search with RegEx Match
56    &amp;#039;=======================================
57    &amp;#039;@INCLUDE=utils/SensorRandomization/SensorRandomizationFunctions.vbs
58    Option Explicit
59
60    SensorRandomize()
61
62    Dim Pattern,strRegExp,strGlobalArg,strCaseSensitiveArg
63    Dim bGlobal,bCaseSensitive
64
65    Pattern = unescape(&amp;quot;||dirname||&amp;quot;)
66    strRegExp = Trim(Unescape(&amp;quot;||regexp||&amp;quot;))
67    strGlobalArg = Trim(Unescape(&amp;quot;||global||&amp;quot;))
68    strCaseSensitiveArg = Trim(Unescape(&amp;quot;||casesensitive||&amp;quot;))
69
70    bGlobal = GetTrueFalseArg(&amp;quot;global&amp;quot;,strGlobalArg)
71    bCaseSensitive = GetTrueFalseArg(&amp;quot;casesensitive&amp;quot;,strCaseSensitiveArg)
72
73    Const SYSTEM_FOLDER = 1, TEMP_FOLDER = 2, FOR_READING = 1
74
75    Dim FSO, WshShell, Drives, Drive, TextStream, OutputFilename, strLine
```

```
76
77   Set FSO = CreateObject(&amp;quot;Scripting.FileSystemObject&amp;quot;)
78   Set WshShell = CreateObject(&amp;quot;WScript.Shell&amp;quot;)
79
80   OutputFilename = TempName() &amp;#039; a temporary file in system&amp;#039;s temp dir
81
82   &amp;#039; Go through file system, refresh output file for filename
83   If Not FSO.FileExists(OutputFilename) Then
84
85        If FSO.FileExists(OutputFilename) Then FSO.DeleteFile OutputFilename
86
87        &amp;#039; Get the collection of local drives.
88        Set Drives = FSO.Drives
89        For Each Drive in Drives
90              If Drive.DriveType = 2 Then &amp;#039; 2 = Fixed drive
91                    &amp;#039; Run the Dir command that looks for the filename pattern.
92                    RunCommand &amp;quot;dir &amp;quot; &amp;amp;Chr(34)&amp;amp; Drive.DriveLetter
93              End If
94        Next
95   End If
96
97   &amp;#039; Open the output file, echo each line, and then close and delete it.
98   Set TextStream = FSO.OpenTextFile(OutputFileName, FOR_READING)
99   Do While Not TextStream.AtEndOfStream
100       strLine = TextStream.ReadLine()
101       If RegExpMatch(strRegExp,strLine,bGlobal,bCaseSensitive) Then
102             WScript.Echo strLine
103       End If
104  Loop
105
106
107  TextStream.Close()
108
109  If FSO.FileExists(OutputFileName) Then
110       On Error Resume Next
111       FSO.DeleteFile OutputFileName, True
112       On Error Goto 0
113  End If
114
115  Function RegExpMatch(strPattern,strToMatch,bGlobal,bIsCaseSensitive)
116
117       Dim re
118       Set re = New RegExp
119       With re
120         .Pattern = strPattern
121         .Global = bGlobal
122         .IgnoreCase = Not bIsCaseSensitive
123       End With
124
125       RegExpMatch = re.Test(strToMatch)
126
127  End Function &amp;#039;RegExpMatch
128
129
130  Function GetTrueFalseArg(strArgName,strArgValue)
131       &amp;#039; Checks for valid values, will fail with error message
132
133       Dim bArgVal
```

```
134        bArgVal = False
135        Select Case LCase(strArgValue)
136              Case &amp;quot;true&amp;quot;
137                    bArgVal = True
138              Case &amp;quot;yes&amp;quot;
139                    bArgVal = True
140              Case &amp;quot;false&amp;quot;
141                    bArgVal = False
142              Case &amp;quot;no&amp;quot;
143                    bArgVal = False
144              Case Else
145                    WScript.Echo &amp;quot;Error: Argument &amp;#039;&amp;quot;&amp;amp;strArgName&a
146                    PrintUsage
147        End Select
148        GetTrueFalseArg = bArgVal
149
150  End Function &amp;#039;GetTrueFalseArg
151
152
153  &amp;#039; Returns the name of a temporary file in the Temp directory.
154  Function TempName()
155        Dim Result
156        Do
157              Result = FSO.BuildPath(FSO.GetSpecialFolder(TEMP_FOLDER), FSO.GetTempName())
158              WScript.Sleep 200 &amp;#039;avoid potential busy loop
159        Loop While FSO.FileExists(Result)
160
161        TempName = Result
162  End Function &amp;#039;TempName
163
164  &amp;#039; Runs a command with Cmd.exe and redirects its output to a temporary
165  &amp;#039; file. The function returns the name of the temporary file that holds
166  &amp;#039; the command&amp;#039;s output.
167  Function RunCommand(Command, OutputFilename, b64BitNecessary)
168        &amp;#039; 64BitNecessary true when you need to examine the 64-bit areas like system32
169        Dim CommandLine,WshShell,strPRogramFilesx86,strDOSCall,objFSO
170        Set objFSO = CreateObject(&amp;quot;Scripting.FileSystemObject&amp;quot;)
171        Set WshShell = CreateObject(&amp;quot;WScript.Shell&amp;quot;)
172
173        strDOSCall = &amp;quot;%ComSpec% /C &amp;quot;
174
175        &amp;#039; if 64-bit OS *and* we must examine in 64-bit mode to avoid FS Redirection
176        strProgramFilesx86=WshShell.ExpandEnvironmentStrings(&amp;quot;%ProgramFiles%&amp;quot;)
177        If objFSO.FolderExists(strProgramFilesx86) And b64BitNecessary Then &amp;#039; quick check for x
178              strDOSCall = FixFileSystemRedirectionForPath(WshShell.ExpandEnvironmentStrings(strDOSCal
179        End If
180
181        CommandLine = WshShell.ExpandEnvironmentStrings(strDOSCall &amp;amp; Command &amp;amp; &amp;quot
182        WshShell.Run CommandLine, 0, True
183  End Function &amp;#039;RunCommand
184
185  Function FixFileSystemRedirectionForPath(strFilePath)
186  &amp;#039; This function will fix a folder location so that
187  &amp;#039; a 32-bit program can be passed the windows\system32 directory
188  &amp;#039; as a parameter.
189  &amp;#039; Even if the sensor or action runs in 64-bit mode, a 32-bit
190  &amp;#039; program called in a 64-bit environment cannot access
191  &amp;#039; the system32 directory - it would be redirected to syswow64.
```

```
192   &amp;#039; you would not want to do this for 64-bit programs.
193
194       Dim objFSO, strSystem32Location,objShell
195       Dim strProgramFilesx86,strNewSystem32Location,strRestOfPath
196       Set objFSO = CreateObject(&amp;quot;Scripting.FileSystemObject&amp;quot;)
197       Set objShell = CreateObject(&amp;quot;Wscript.Shell&amp;quot;)
198
199       strProgramFilesx86=objShell.ExpandEnvironmentStrings(&amp;quot;%ProgramFiles%&amp;quot;)
200
201       strFilePath = LCase(strFilePath)
202       strSystem32Location = LCase(objFSO.GetSpecialFolder(1))
203       strProgramFilesx86=objShell.ExpandEnvironmentStrings(&amp;quot;%ProgramFiles(x86)%&amp;quot;)
204
205       If objFSO.FolderExists(strProgramFilesx86) Then &amp;#039; quick check for x64
206               If InStr(strFilePath,strSystem32Location) = 1 Then
207                       strRestOfPath = Replace(strFilePath,strSystem32Location,&amp;quot;&amp;quot;)
208                       strNewSystem32Location = Replace(strSystem32Location,&amp;quot;system32&amp;quot
209                       strFilePath = strNewSystem32Location&amp;amp;strRestOfPath
210               End If
211       End If
212       FixFileSystemRedirectionForPath = strFilePath
213
214       &amp;#039;Cleanup
215       Set objFSO = Nothing
216   End Function &amp;#039;FixFileSystemRedirectionForPath
217   &amp;#039;------------ INCLUDES after this line. Do not edit past this point -----
218   &amp;#039;- Begin file: utils/SensorRandomization/SensorRandomizationFunctions.vbs
219   &amp;#039;&amp;#039; -- Begin Random Sleep Functions -- &amp;#039;&amp;#039;
220
221   Dim bSensorRandomizeDebugOutput : bSensorRandomizeDebugOutput = False
222
223   Function SensorRandomizeLow()
224       Dim intSensorRandomizeWaitLow : intSensorRandomizeWaitLow = 10
225       SensorRandomizeRandomSleep(intSensorRandomizeWaitLow)
226   End Function &amp;#039; SensorRandomizeLow
227
228   Function SensorRandomize()
229       Dim intSensorRandomizeWaitMed : intSensorRandomizeWaitMed = 20
230       SensorRandomizeRandomSleep(intSensorRandomizeWaitMed)
231   End Function &amp;#039; SensorRandomize
232
233   Function SensorRandomizeHigh()
234       Dim intSensorRandomizeWaitHigh : intSensorRandomizeWaitHigh = 30
235       SensorRandomizeRandomSleep(intSensorRandomizeWaitHigh)
236   End Function &amp;#039; SensorRandomize
237
238   Function SensorRandomizeRandomSleep(intSleepTime)
239   &amp;#039; sleeps for a random period of time, intSleepTime is in seconds
240   &amp;#039; if the sensor randomize flag is on
241   &amp;#039; RandomizeScalingFactor is a multiplier on the values hardcoded in the sensor
242   &amp;#039; not typically set but can adjust timings per endpoint, optionally
243       Dim intSensorRandomizeWaitTime
244       Dim objShell,intRandomizeFlag,strRandomizeRegPath,intRandomizeScalingPercentage
245       strRandomizeRegPath = SensorRandomizeGetTaniumRegistryPath&amp;amp;&amp;quot;\Sensor Data\Random
246
247       Set objShell = CreateObject(&amp;quot;WScript.Shell&amp;quot;)
248       On Error Resume Next
249       intRandomizeFlag = objShell.RegRead(&amp;quot;HKLM\&amp;quot;&amp;amp;strRandomizeRegPath&amp;am
```

```
250      intRandomizeScalingPercentage = objShell.RegRead(&amp;quot;HKLM\&amp;quot;&amp;amp;strRandomizeR
251      On Error Goto 0
252      If intRandomizeFlag &amp;gt; 0 Then
253              If intRandomizeScalingPercentage &amp;gt; 0 Then
254                      intSleepTime = intRandomizeScalingPercentage * .01 * intSleepTime
255                      SensorRandomizeEcho &amp;quot;Randomize scaling percentage of &amp;quot; _
256                          &amp;amp; intRandomizeScalingPercentage &amp;amp; &amp;quot; applied, ne
257              End If
258              intSensorRandomizeWaitTime = CLng(intSleepTime) * 1000 &amp;#039; convert to millisecond
259              &amp;#039; wait random interval between 0 and the max
260              Randomize(SensorRandomizeTaniumRandomSeed)
261              &amp;#039; assign random value to wait time max value
262              intSensorRandomizeWaitTime = Int( ( intSensorRandomizeWaitTime + 1 ) * Rnd )
263              SensorRandomizeEcho &amp;quot;Sleeping for &amp;quot; &amp;amp; intSensorRandomizeWaitTi
264              WScript.Sleep(intSensorRandomizeWaitTime)
265              SensorRandomizeEcho &amp;quot;Done sleeping, continuing ...&amp;quot;
266      Else
267              SensorRandomizeEcho &amp;quot;SensorRandomize Not Enabled - No Op&amp;quot;
268      End If
269  End Function &amp;#039;SensorRandomizeRandomSleep
270
271  Function SensorRandomizeTaniumRandomSeed
272  &amp;#039; for randomizing sensor code, the default seed is not random enough
273      Dim timerNum
274      timerNum = Timer()
275      If timerNum &amp;lt; 1 Then
276              SensorRandomizeTaniumRandomSeed = (SensorRandomizeGetTaniumComputerID / Timer() * 10 )
277      Else
278              SensorRandomizeTaniumRandomSeed = SensorRandomizeGetTaniumComputerID / Timer
279      End If
280  End Function &amp;#039;SensorRandomizeTaniumRandomSeed
281
282  Function SensorRandomizeGetTaniumRegistryPath
283  &amp;#039;SensorRandomizeGetTaniumRegistryPath works in x64 or x32
284  &amp;#039;looks for a valid Path value
285
286      Dim objShell
287      Dim keyNativePath, keyWoWPath, strPath, strFoundTaniumRegistryPath
288
289      Set objShell = CreateObject(&amp;quot;WScript.Shell&amp;quot;)
290
291      keyNativePath = &amp;quot;Software\Tanium\Tanium Client&amp;quot;
292      keyWoWPath = &amp;quot;Software\Wow6432Node\Tanium\Tanium Client&amp;quot;
293
294      &amp;#039; first check the Software key (valid for 32-bit machines, or 64-bit machines in 32-bit
295      On Error Resume Next
296      strPath = objShell.RegRead(&amp;quot;HKLM\&amp;quot;&amp;amp;keyNativePath&amp;amp;&amp;quot;\Pa
297      On Error Goto 0
298      strFoundTaniumRegistryPath = keyNativePath
299
300      If strPath = &amp;quot;&amp;quot; Then
301              &amp;#039; Could not find 32-bit mode path, checking Wow6432Node
302              On Error Resume Next
303              strPath = objShell.RegRead(&amp;quot;HKLM\&amp;quot;&amp;amp;keyWoWPath&amp;amp;&amp;quo
304              On Error Goto 0
305              strFoundTaniumRegistryPath = keyWoWPath
306      End If
307
```

```
308        If Not strPath = &amp;quot;&amp;quot; Then
309                SensorRandomizeGetTaniumRegistryPath = strFoundTaniumRegistryPath
310        Else
311                SensorRandomizeGetTaniumRegistryPath = False
312                WScript.Echo &amp;quot;Error: Cannot locate Tanium Registry Path&amp;quot;
313        End If
314    End Function &amp;#039;SensorRandomizeGetTaniumRegistryPath
315
316    Function SensorRandomizeGetTaniumComputerID
317    &amp;#039;&amp;#039; This function gets the Tanium Computer ID
318        Dim objShell
319        Dim intClientID,strID,strKeyPath,strValueName
320
321        strKeyPath = SensorRandomizeGetTaniumRegistryPath
322        strValueName = &amp;quot;ComputerID&amp;quot;
323        Set objShell = CreateObject(&amp;quot;WScript.Shell&amp;quot;)
324        On Error Resume Next
325        intClientID = objShell.RegRead(&amp;quot;HKLM\&amp;quot;&amp;amp;strKeyPath&amp;amp;&amp;quot;\&
326        If Err.Number &amp;lt;&amp;gt; 0 Then
327                SensorRandomizeGetTaniumComputerID = 0
328        Else
329                SensorRandomizeGetTaniumComputerID = SensorRandomizeReinterpretSignedAsUnsigned(intClien
330        End If
331        On Error Goto 0
332    End Function &amp;#039;SensorRandomizeGetTaniumComputerID
333
334    Function SensorRandomizeReinterpretSignedAsUnsigned(ByVal x)
335        If x &amp;lt; 0 Then x = x + 2^32
336        SensorRandomizeReinterpretSignedAsUnsigned = x
337    End Function &amp;#039;SensorRandomizeReinterpretSignedAsUnsigned
338
339    Sub SensorRandomizeEcho(str)
340        If bSensorRandomizeDebugOutput = true Then WScript.Echo str
341    End Sub &amp;#039;SensorRandomizeEcho
342    &amp;#039; -- End Random Sleep Functions --&amp;#039;
343    &amp;#039;- End file: utils/SensorRandomization/SensorRandomizationFunctions.vbs</script></query><qu
344    #||dirname||||regexp||||casesensitive||||global||
345    echo Windows Only
346    </script></query><query><platform>Mac</platform><script_type>UnixShell</script_type><signature /><sc
347    #||dirname||||regexp||||casesensitive||||global||
348    echo Windows Only
349    </script></query></queries></sensor></sensors>
```

Export basetype xml minimal false

Export a BaseType from getting objects as XML with false for minimal

Example Python Code

```python
1    # Path to lib directory which contains pytan package
2    PYTAN_LIB_PATH = '../lib'
3
4    # connection info for Tanium Server
5    USERNAME = "Tanium User"
6    PASSWORD = "T@n!um"
```

```
7   HOST = "172.16.31.128"
8   PORT = "444"
9
10  # Logging conrols
11  LOGLEVEL = 2
12  DEBUGFORMAT = False
13
14  import sys, tempfile
15  sys.path.append(PYTAN_LIB_PATH)
16
17  import pytan
18  handler = pytan.Handler(
19      username=USERNAME,
20      password=PASSWORD,
21      host=HOST,
22      port=PORT,
23      loglevel=LOGLEVEL,
24      debugformat=DEBUGFORMAT,
25  )
26
27  print handler
28
29  # setup the export_obj kwargs for later
30  export_kwargs = {}
31  export_kwargs["export_format"] = u'xml'
32  export_kwargs["minimal"] = False
33
34  # get the objects that will provide the basetype that we want to use
35  get_kwargs = {
36      'name': [
37          "Computer Name", "IP Route Details", "IP Address",
38          'Folder Name Search with RegEx Match',
39      ],
40      'objtype': 'sensor',
41  }
42  response = handler.get(**get_kwargs)
43
44  # export the object to a string
45  # (we could just as easily export to a file using export_to_report_file)
46  export_kwargs['obj'] = response
47  export_str = handler.export_obj(**export_kwargs)
48
49
50  print ""
51  print "print the export_str returned from export_obj():"
52  print export_str
```

Output from Python Code

```
1  Handler for Session to 172.16.31.128:444, Authenticated: True, Version: 6.2.314.3258
2
3  print the export_str returned from export_obj():
4  <sensors><cache_info /><sensor><category>Reserved</category><preview_sensor_flag /><hash>3409330187<
5  Example: workstation-1.company.com</description><string_hints /><subcolumns /><metadata /><parameter
6  Example:  172.16.0.0|192.168.1.1|255.255.0.0|UG|100|eth0</description><string_hints /><subcolumns><s
7  Set objWMIService = GetObject(&quot;winmgmts:&quot; _
8      &amp; &quot;{impersonationLevel=impersonate}!\\&quot; &amp; strComputer &amp;
```

```
9
10  Set collip = objWMIService.ExecQuery(&amp;quot;select * from win32_networkadapterconfiguration where
11  dim ipaddrs()
12  ipcount = 0
13  for each ipItem in collip
14      for each ipaddr in ipItem.IPAddress
15          ipcount = ipcount + 1
16      next
17  next
18  redim ipaddrs(ipcount)
19  ipcount = 0
20  for each ipItem in collip
21      for each ipaddr in ipItem.IPAddress
22          ipcount = ipcount + 1
23          ipaddrs(ipcount) = ipaddr
24      next
25  next
26  localhost = &amp;quot;127.0.0.1&amp;quot;
27
28  Set colItems = objWMIService.ExecQuery(&amp;quot;Select * from Win32_IP4RouteTable&amp;quot;)
29
30  For Each objItem in colItems
31      dest = objItem.Destination
32      gw = objItem.NextHop
33      mask = objItem.Mask
34      metric = objItem.Metric1
35      flags = objItem.Type
36      intf = objItem.InterfaceIndex
37      For i = 0 to ipcount
38          if gw = ipaddrs(i) and gw &amp;lt;&amp;gt; localhost then
39              gw = &amp;quot;0.0.0.0&amp;quot;
40          end if
41      Next
42      if gw &amp;lt;&amp;gt; localhost and dest &amp;lt;&amp;gt; &amp;quot;224.0.0.0&amp;quot; and rig
43          Wscript.Echo dest &amp;amp; &amp;quot;|&amp;quot; &amp;amp; gw &amp;amp; &amp;quot;|&amp;quo
44      end if
45  Next</script></query><query><platform>Linux</platform><script_type>UnixShell</script_type><signature
46  </script></query><query><platform>Mac</platform><script_type>UnixShell</script_type><signature /><sc
47  </script></query></queries></sensor><sensor><category>Network</category><preview_sensor_flag /><hash
48  Example: 192.168.1.1</description><string_hints /><subcolumns /><metadata><item><admin_flag>0</admin
49  ifconfig | grep -w inet | grep -v 127.0.0.1 | awk &amp;#039;{print $2}&amp;#039; | sed -e &amp;#039;
50  </script></query><query><platform>Mac</platform><script_type>UnixShell</script_type><signature /><sc
51
52  ifconfig -a -u |grep &amp;quot;inet&amp;quot; | grep -v &amp;quot;::1&amp;quot; | grep -v &amp;quot;
53  </script></query></queries></sensor><sensor><category>File System</category><preview_sensor_flag /><
54  Example: C:\WINDOWS\System32</description><string_hints /><subcolumns /><metadata><item><admin_flag>
55  &amp;#039; Folder Name Search with RegEx Match
56  &amp;#039;=======================================
57  &amp;#039;@INCLUDE=utils/SensorRandomization/SensorRandomizationFunctions.vbs
58  Option Explicit
59
60  SensorRandomize()
61
62  Dim Pattern,strRegExp,strGlobalArg,strCaseSensitiveArg
63  Dim bGlobal,bCaseSensitive
64
65  Pattern = unescape(&amp;quot;||dirname||&amp;quot;)
66  strRegExp = Trim(Unescape(&amp;quot;||regexp||&amp;quot;))
```

```
67    strGlobalArg = Trim(Unescape(&amp;quot;||global||&amp;quot;))
68    strCaseSensitiveArg = Trim(Unescape(&amp;quot;||casesensitive||&amp;quot;))
69
70    bGlobal = GetTrueFalseArg(&amp;quot;global&amp;quot;,strGlobalArg)
71    bCaseSensitive = GetTrueFalseArg(&amp;quot;casesensitive&amp;quot;,strCaseSensitiveArg)
72
73    Const SYSTEM_FOLDER = 1, TEMP_FOLDER = 2, FOR_READING = 1
74
75    Dim FSO, WshShell, Drives, Drive, TextStream, OutputFilename, strLine
76
77    Set FSO = CreateObject(&amp;quot;Scripting.FileSystemObject&amp;quot;)
78    Set WshShell = CreateObject(&amp;quot;WScript.Shell&amp;quot;)
79
80    OutputFilename = TempName() &amp;#039; a temporary file in system&amp;#039;s temp dir
81
82    &amp;#039; Go through file system, refresh output file for filename
83    If Not FSO.FileExists(OutputFilename) Then
84
85        If FSO.FileExists(OutputFilename) Then FSO.DeleteFile OutputFilename
86
87        &amp;#039; Get the collection of local drives.
88        Set Drives = FSO.Drives
89        For Each Drive in Drives
90                If Drive.DriveType = 2 Then &amp;#039; 2 = Fixed drive
91                        &amp;#039; Run the Dir command that looks for the filename pattern.
92                        RunCommand &amp;quot;dir &amp;quot; &amp;amp;Chr(34)&amp;amp; Drive.DriveLetter
93                End If
94        Next
95    End If
96
97    &amp;#039; Open the output file, echo each line, and then close and delete it.
98    Set TextStream = FSO.OpenTextFile(OutputFileName, FOR_READING)
99    Do While Not TextStream.AtEndOfStream
100       strLine = TextStream.ReadLine()
101       If RegExpMatch(strRegExp,strLine,bGlobal,bCaseSensitive) Then
102               WScript.Echo strLine
103       End If
104   Loop
105
106
107   TextStream.Close()
108
109   If FSO.FileExists(OutputFileName) Then
110       On Error Resume Next
111       FSO.DeleteFile OutputFileName, True
112       On Error Goto 0
113   End If
114
115   Function RegExpMatch(strPattern,strToMatch,bGlobal,bIsCaseSensitive)
116
117       Dim re
118       Set re = New RegExp
119       With re
120         .Pattern = strPattern
121         .Global = bGlobal
122         .IgnoreCase = Not bIsCaseSensitive
123       End With
124
```

```
125       RegExpMatch = re.Test(strToMatch)
126
127   End Function &amp;#039;RegExpMatch
128
129
130   Function GetTrueFalseArg(strArgName,strArgValue)
131       &amp;#039; Checks for valid values, will fail with error message
132
133       Dim bArgVal
134       bArgVal = False
135       Select Case LCase(strArgValue)
136               Case &amp;quot;true&amp;quot;
137                       bArgVal = True
138               Case &amp;quot;yes&amp;quot;
139                       bArgVal = True
140               Case &amp;quot;false&amp;quot;
141                       bArgVal = False
142               Case &amp;quot;no&amp;quot;
143                       bArgVal = False
144               Case Else
145                       WScript.Echo &amp;quot;Error: Argument &amp;#039;&amp;quot;&amp;amp;strArgName&amp;a
146                       PrintUsage
147       End Select
148       GetTrueFalseArg = bArgVal
149
150   End Function &amp;#039;GetTrueFalseArg
151
152
153   &amp;#039; Returns the name of a temporary file in the Temp directory.
154   Function TempName()
155       Dim Result
156       Do
157               Result = FSO.BuildPath(FSO.GetSpecialFolder(TEMP_FOLDER), FSO.GetTempName())
158               WScript.Sleep 200 &amp;#039;avoid potential busy loop
159       Loop While FSO.FileExists(Result)
160
161       TempName = Result
162   End Function &amp;#039;TempName
163
164   &amp;#039; Runs a command with Cmd.exe and redirects its output to a temporary
165   &amp;#039; file. The function returns the name of the temporary file that holds
166   &amp;#039; the command&amp;#039;s output.
167   Function RunCommand(Command, OutputFilename, b64BitNecessary)
168       &amp;#039; 64BitNecessary true when you need to examine the 64-bit areas like system32
169       Dim CommandLine,WshShell,strPRogramFilesx86,strDOSCall,objFSO
170       Set objFSO = CreateObject(&amp;quot;Scripting.FileSystemObject&amp;quot;)
171       Set WshShell = CreateObject(&amp;quot;WScript.Shell&amp;quot;)
172
173       strDOSCall = &amp;quot;%ComSpec% /C &amp;quot;
174
175       &amp;#039; if 64-bit OS *and* we must examine in 64-bit mode to avoid FS Redirection
176       strProgramFilesx86=WshShell.ExpandEnvironmentStrings(&amp;quot;%ProgramFiles%&amp;quot;)
177       If objFSO.FolderExists(strProgramFilesx86) And b64BitNecessary Then &amp;#039; quick check for x
178               strDOSCall = FixFileSystemRedirectionForPath(WshShell.ExpandEnvironmentStrings(strDOSCal
179       End If
180
181       CommandLine = WshShell.ExpandEnvironmentStrings(strDOSCall &amp;amp; Command &amp;amp; &amp;quot
182       WshShell.Run CommandLine, 0, True
```

```
183  End Function &amp;#039;RunCommand
184
185  Function FixFileSystemRedirectionForPath(strFilePath)
186  &amp;#039; This function will fix a folder location so that
187  &amp;#039; a 32-bit program can be passed the windows\system32 directory
188  &amp;#039; as a parameter.
189  &amp;#039; Even if the sensor or action runs in 64-bit mode, a 32-bit
190  &amp;#039; program called in a 64-bit environment cannot access
191  &amp;#039; the system32 directory - it would be redirected to syswow64.
192  &amp;#039; you would not want to do this for 64-bit programs.
193
194      Dim objFSO, strSystem32Location,objShell
195      Dim strProgramFilesx86,strNewSystem32Location,strRestOfPath
196      Set objFSO = CreateObject(&amp;quot;Scripting.FileSystemObject&amp;quot;)
197      Set objShell = CreateObject(&amp;quot;Wscript.Shell&amp;quot;)
198
199      strProgramFilesx86=objShell.ExpandEnvironmentStrings(&amp;quot;%ProgramFiles%&amp;quot;)
200
201      strFilePath = LCase(strFilePath)
202      strSystem32Location = LCase(objFSO.GetSpecialFolder(1))
203      strProgramFilesx86=objShell.ExpandEnvironmentStrings(&amp;quot;%ProgramFiles(x86)%&amp;quot;)
204
205      If objFSO.FolderExists(strProgramFilesx86) Then &amp;#039; quick check for x64
206              If InStr(strFilePath,strSystem32Location) = 1 Then
207                      strRestOfPath = Replace(strFilePath,strSystem32Location,&amp;quot;&amp;quot;)
208                      strNewSystem32Location = Replace(strSystem32Location,&amp;quot;system32&amp;quot
209                      strFilePath = strNewSystem32Location&amp;amp;strRestOfPath
210              End If
211      End If
212      FixFileSystemRedirectionForPath = strFilePath
213
214      &amp;#039;Cleanup
215      Set objFSO = Nothing
216  End Function &amp;#039;FixFileSystemRedirectionForPath
217  &amp;#039;------------ INCLUDES after this line. Do not edit past this point -----
218  &amp;#039;- Begin file: utils/SensorRandomization/SensorRandomizationFunctions.vbs
219  &amp;#039;&amp;#039; -- Begin Random Sleep Functions -- &amp;#039;&amp;#039;
220
221  Dim bSensorRandomizeDebugOutput : bSensorRandomizeDebugOutput = False
222
223  Function SensorRandomizeLow()
224      Dim intSensorRandomizeWaitLow : intSensorRandomizeWaitLow = 10
225      SensorRandomizeRandomSleep(intSensorRandomizeWaitLow)
226  End Function &amp;#039; SensorRandomizeLow
227
228  Function SensorRandomize()
229      Dim intSensorRandomizeWaitMed : intSensorRandomizeWaitMed = 20
230      SensorRandomizeRandomSleep(intSensorRandomizeWaitMed)
231  End Function &amp;#039; SensorRandomize
232
233  Function SensorRandomizeHigh()
234      Dim intSensorRandomizeWaitHigh : intSensorRandomizeWaitHigh = 30
235      SensorRandomizeRandomSleep(intSensorRandomizeWaitHigh)
236  End Function &amp;#039; SensorRandomize
237
238  Function SensorRandomizeRandomSleep(intSleepTime)
239  &amp;#039; sleeps for a random period of time, intSleepTime is in seconds
240  &amp;#039; if the sensor randomize flag is on
```

```
241   &amp;#039; RandomizeScalingFactor is a multiplier on the values hardcoded in the sensor
242   &amp;#039; not typically set but can adjust timings per endpoint, optionally
243       Dim intSensorRandomizeWaitTime
244       Dim objShell,intRandomizeFlag,strRandomizeRegPath,intRandomizeScalingPercentage
245       strRandomizeRegPath = SensorRandomizeGetTaniumRegistryPath&amp;&amp;quot;\Sensor Data\Random
246
247       Set objShell = CreateObject(&amp;quot;WScript.Shell&amp;quot;)
248       On Error Resume Next
249       intRandomizeFlag = objShell.RegRead(&amp;quot;HKLM\&amp;quot;&amp;amp;strRandomizeRegPath&amp;am
250       intRandomizeScalingPercentage = objShell.RegRead(&amp;quot;HKLM\&amp;quot;&amp;amp;strRandomizeR
251       On Error Goto 0
252       If intRandomizeFlag &amp;gt; 0 Then
253               If intRandomizeScalingPercentage &amp;gt; 0 Then
254                       intSleepTime = intRandomizeScalingPercentage * .01 * intSleepTime
255                       SensorRandomizeEcho &amp;quot;Randomize scaling percentage of &amp;quot; _
256                               &amp;amp; intRandomizeScalingPercentage &amp;amp; &amp;quot; applied, ne
257               End If
258               intSensorRandomizeWaitTime = CLng(intSleepTime) * 1000 &amp;#039; convert to millisecond
259               &amp;#039; wait random interval between 0 and the max
260               Randomize(SensorRandomizeTaniumRandomSeed)
261               &amp;#039; assign random value to wait time max value
262               intSensorRandomizeWaitTime = Int( ( intSensorRandomizeWaitTime + 1 ) * Rnd )
263               SensorRandomizeEcho &amp;quot;Sleeping for &amp;quot; &amp;amp; intSensorRandomizeWaitTi
264               WScript.Sleep(intSensorRandomizeWaitTime)
265               SensorRandomizeEcho &amp;quot;Done sleeping, continuing ...&amp;quot;
266       Else
267               SensorRandomizeEcho &amp;quot;SensorRandomize Not Enabled - No Op&amp;quot;
268       End If
269   End Function &amp;#039;SensorRandomizeRandomSleep
270
271   Function SensorRandomizeTaniumRandomSeed
272   &amp;#039; for randomizing sensor code, the default seed is not random enough
273       Dim timerNum
274       timerNum = Timer()
275       If timerNum &amp;lt; 1 Then
276               SensorRandomizeTaniumRandomSeed = (SensorRandomizeGetTaniumComputerID / Timer() * 10 )
277       Else
278               SensorRandomizeTaniumRandomSeed = SensorRandomizeGetTaniumComputerID / Timer
279       End If
280   End Function &amp;#039;SensorRandomizeTaniumRandomSeed
281
282   Function SensorRandomizeGetTaniumRegistryPath
283   &amp;#039;SensorRandomizeGetTaniumRegistryPath works in x64 or x32
284   &amp;#039;looks for a valid Path value
285
286       Dim objShell
287       Dim keyNativePath, keyWoWPath, strPath, strFoundTaniumRegistryPath
288
289       Set objShell = CreateObject(&amp;quot;WScript.Shell&amp;quot;)
290
291       keyNativePath = &amp;quot;Software\Tanium\Tanium Client&amp;quot;
292       keyWoWPath = &amp;quot;Software\Wow6432Node\Tanium\Tanium Client&amp;quot;
293
294       &amp;#039; first check the Software key (valid for 32-bit machines, or 64-bit machines in 32-bit
295       On Error Resume Next
296       strPath = objShell.RegRead(&amp;quot;HKLM\&amp;quot;&amp;amp;keyNativePath&amp;amp;&amp;quot;\Pa
297       On Error Goto 0
298       strFoundTaniumRegistryPath = keyNativePath
```

```
299
300        If strPath = &amp;quot;&amp;quot; Then
301                &amp;#039; Could not find 32-bit mode path, checking Wow6432Node
302                On Error Resume Next
303                strPath = objShell.RegRead(&amp;quot;HKLM\&amp;quot;&amp;amp;keyWoWPath&amp;amp;&amp;quo
304                On Error Goto 0
305                strFoundTaniumRegistryPath = keyWoWPath
306        End If
307
308        If Not strPath = &amp;quot;&amp;quot; Then
309                SensorRandomizeGetTaniumRegistryPath = strFoundTaniumRegistryPath
310        Else
311                SensorRandomizeGetTaniumRegistryPath = False
312                WScript.Echo &amp;quot;Error: Cannot locate Tanium Registry Path&amp;quot;
313        End If
314    End Function &amp;#039;SensorRandomizeGetTaniumRegistryPath
315
316    Function SensorRandomizeGetTaniumComputerID
317    &amp;#039;&amp;#039; This function gets the Tanium Computer ID
318        Dim objShell
319        Dim intClientID,strID,strKeyPath,strValueName
320
321        strKeyPath = SensorRandomizeGetTaniumRegistryPath
322        strValueName = &amp;quot;ComputerID&amp;quot;
323        Set objShell = CreateObject(&amp;quot;WScript.Shell&amp;quot;)
324        On Error Resume Next
325        intClientID = objShell.RegRead(&amp;quot;HKLM\&amp;quot;&amp;amp;strKeyPath&amp;amp;&amp;quot;\&amp;
326        If Err.Number &amp;lt;&amp;gt; 0 Then
327                SensorRandomizeGetTaniumComputerID = 0
328        Else
329                SensorRandomizeGetTaniumComputerID = SensorRandomizeReinterpretSignedAsUnsigned(intClien
330        End If
331        On Error Goto 0
332    End Function &amp;#039;SensorRandomizeGetTaniumComputerID
333
334    Function SensorRandomizeReinterpretSignedAsUnsigned(ByVal x)
335        If x &amp;lt; 0 Then x = x + 2^32
336        SensorRandomizeReinterpretSignedAsUnsigned = x
337    End Function &amp;#039;SensorRandomizeReinterpretSignedAsUnsigned
338
339    Sub SensorRandomizeEcho(str)
340        If bSensorRandomizeDebugOutput = true Then WScript.Echo str
341    End Sub &amp;#039;SensorRandomizeEcho
342    &amp;#039; -- End Random Sleep Functions --&amp;#039;
343    &amp;#039;- End file: utils/SensorRandomization/SensorRandomizationFunctions.vbs</script></query><qu
344    #||dirname||||regexp||||casesensitive||||global||
345    echo Windows Only
346    </script></query><query><platform>Mac</platform><script_type>UnixShell</script_type><signature /><sc
347    #||dirname||||regexp||||casesensitive||||global||
348    echo Windows Only
349    </script></query></queries></sensor></sensors>
```

Export basetype xml minimal true

Export a BaseType from getting objects as XML with true for minimal

---

Example Python Code

```
1   # Path to lib directory which contains pytan package
2   PYTAN_LIB_PATH = '../lib'
3
4   # connection info for Tanium Server
5   USERNAME = "Tanium User"
6   PASSWORD = "T@n!um"
7   HOST = "172.16.31.128"
8   PORT = "444"
9
10  # Logging conrols
11  LOGLEVEL = 2
12  DEBUGFORMAT = False
13
14  import sys, tempfile
15  sys.path.append(PYTAN_LIB_PATH)
16
17  import pytan
18  handler = pytan.Handler(
19      username=USERNAME,
20      password=PASSWORD,
21      host=HOST,
22      port=PORT,
23      loglevel=LOGLEVEL,
24      debugformat=DEBUGFORMAT,
25  )
26
27  print handler
28
29  # setup the export_obj kwargs for later
30  export_kwargs = {}
31  export_kwargs["export_format"] = u'xml'
32  export_kwargs["minimal"] = True
33
34  # get the objects that will provide the basetype that we want to use
35  get_kwargs = {
36      'name': [
37          "Computer Name", "IP Route Details", "IP Address",
38          'Folder Name Search with RegEx Match',
39      ],
40      'objtype': 'sensor',
41  }
42  response = handler.get(**get_kwargs)
43
44  # export the object to a string
45  # (we could just as easily export to a file using export_to_report_file)
46  export_kwargs['obj'] = response
47  export_str = handler.export_obj(**export_kwargs)
48
49
50  print ""
51  print "print the export_str returned from export_obj():"
52  print export_str
```

Output from Python Code

```
1   Handler for Session to 172.16.31.128:444, Authenticated: True, Version: 6.2.314.3258
2
3   print the export_str returned from export_obj():
4   <sensors><sensor><category>Reserved</category><hash>3409330187</hash><name>Computer Name</name><hidd
5   Example: workstation-1.company.com</description><queries><query><platform>Windows</platform><script_
6   Example:  172.16.0.0|192.168.1.1|255.255.0.0|UG|100|eth0</description><subcolumns><subcolumn><index>
7   Set objWMIService = GetObject(&amp;quot;winmgmts:&amp;quot; _
8       &amp;amp; &amp;quot;{impersonationLevel=impersonate}!\\&amp;quot; &amp;amp; strComputer &amp;amp
9
10  Set collip = objWMIService.ExecQuery(&amp;quot;select * from win32_networkadapterconfiguration where
11  dim ipaddrs()
12  ipcount = 0
13  for each ipItem in collip
14      for each ipaddr in ipItem.IPAddress
15          ipcount = ipcount + 1
16      next
17  next
18  redim ipaddrs(ipcount)
19  ipcount = 0
20  for each ipItem in collip
21      for each ipaddr in ipItem.IPAddress
22          ipcount = ipcount + 1
23          ipaddrs(ipcount) = ipaddr
24      next
25  next
26  localhost = &amp;quot;127.0.0.1&amp;quot;
27
28  Set colItems = objWMIService.ExecQuery(&amp;quot;Select * from Win32_IP4RouteTable&amp;quot;)
29
30  For Each objItem in colItems
31      dest = objItem.Destination
32      gw = objItem.NextHop
33      mask = objItem.Mask
34      metric = objItem.Metric1
35      flags = objItem.Type
36      intf = objItem.InterfaceIndex
37      For i = 0 to ipcount
38          if gw = ipaddrs(i) and gw &amp;lt;&amp;gt; localhost then
39              gw = &amp;quot;0.0.0.0&amp;quot;
40          end if
41      Next
42      if gw &amp;lt;&amp;gt; localhost and dest &amp;lt;&amp;gt; &amp;quot;224.0.0.0&amp;quot; and rig
43          Wscript.Echo dest &amp;amp; &amp;quot;|&amp;quot; &amp;amp; gw &amp;amp; &amp;quot;|&amp;quo
44      end if
45  Next</script></query><query><platform>Linux</platform><script_type>UnixShell</script_type><script>ro
46  </script></query><query><platform>Mac</platform><script_type>UnixShell</script_type><script>netstat
47  </script></query></queries></sensor><sensor><category>Network</category><hash>3209138996</hash><name
48  Example: 192.168.1.1</description><metadata><item><admin_flag>0</admin_flag><name>defined</name><val
49  ifconfig | grep -w inet | grep -v 127.0.0.1 | awk &amp;#039;{print $2}&amp;#039; | sed -e &amp;#039;
50  </script></query><query><platform>Mac</platform><script_type>UnixShell</script_type><script>#!/bin/b
51
52  ifconfig -a -u |grep &amp;quot;inet&amp;quot; | grep -v &amp;quot;::1&amp;quot; | grep -v &amp;quot;
53  </script></query></queries></sensor><sensor><category>File System</category><hash>1374547302</hash><
54  Example: C:\WINDOWS\System32</description><metadata><item><admin_flag>0</admin_flag><name>defined</n
55  &amp;#039; Folder Name Search with RegEx Match
56  &amp;#039;=======================================
57  &amp;#039;@INCLUDE=utils/SensorRandomization/SensorRandomizationFunctions.vbs
58  Option Explicit
```

```
59
60   SensorRandomize()
61
62   Dim Pattern,strRegExp,strGlobalArg,strCaseSensitiveArg
63   Dim bGlobal,bCaseSensitive
64
65   Pattern = unescape(&quot;||dirname||&quot;)
66   strRegExp = Trim(Unescape(&quot;||regexp||&quot;))
67   strGlobalArg = Trim(Unescape(&quot;||global||&quot;))
68   strCaseSensitiveArg = Trim(Unescape(&quot;||casesensitive||&quot;))
69
70   bGlobal = GetTrueFalseArg(&quot;global&quot;,strGlobalArg)
71   bCaseSensitive = GetTrueFalseArg(&quot;casesensitive&quot;,strCaseSensitiveArg)
72
73   Const SYSTEM_FOLDER = 1, TEMP_FOLDER = 2, FOR_READING = 1
74
75   Dim FSO, WshShell, Drives, Drive, TextStream, OutputFilename, strLine
76
77   Set FSO = CreateObject(&quot;Scripting.FileSystemObject&quot;)
78   Set WshShell = CreateObject(&quot;WScript.Shell&quot;)
79
80   OutputFilename = TempName() &#039; a temporary file in system&#039;s temp dir
81
82   &#039; Go through file system, refresh output file for filename
83   If Not FSO.FileExists(OutputFilename) Then
84
85       If FSO.FileExists(OutputFilename) Then FSO.DeleteFile OutputFilename
86
87       &#039; Get the collection of local drives.
88       Set Drives = FSO.Drives
89       For Each Drive in Drives
90               If Drive.DriveType = 2 Then &#039; 2 = Fixed drive
91                       &#039; Run the Dir command that looks for the filename pattern.
92                       RunCommand &quot;dir &quot; &amp;Chr(34)&amp;amp; Drive.DriveLetter
93               End If
94       Next
95   End If
96
97   &#039; Open the output file, echo each line, and then close and delete it.
98   Set TextStream = FSO.OpenTextFile(OutputFileName, FOR_READING)
99   Do While Not TextStream.AtEndOfStream
100      strLine = TextStream.ReadLine()
101      If RegExpMatch(strRegExp,strLine,bGlobal,bCaseSensitive) Then
102              WScript.Echo strLine
103      End If
104  Loop
105
106
107  TextStream.Close()
108
109  If FSO.FileExists(OutputFileName) Then
110      On Error Resume Next
111      FSO.DeleteFile OutputFileName, True
112      On Error Goto 0
113  End If
114
115  Function RegExpMatch(strPattern,strToMatch,bGlobal,bIsCaseSensitive)
116
```

```
117        Dim re
118        Set re = New RegExp
119        With re
120          .Pattern = strPattern
121          .Global = bGlobal
122          .IgnoreCase = Not bIsCaseSensitive
123        End With
124
125        RegExpMatch = re.Test(strToMatch)
126
127    End Function &amp;#039;RegExpMatch
128
129
130    Function GetTrueFalseArg(strArgName,strArgValue)
131        &amp;#039; Checks for valid values, will fail with error message
132
133        Dim bArgVal
134        bArgVal = False
135        Select Case LCase(strArgValue)
136                Case &amp;quot;true&amp;quot;
137                        bArgVal = True
138                Case &amp;quot;yes&amp;quot;
139                        bArgVal = True
140                Case &amp;quot;false&amp;quot;
141                        bArgVal = False
142                Case &amp;quot;no&amp;quot;
143                        bArgVal = False
144                Case Else
145                        WScript.Echo &amp;quot;Error: Argument &amp;#039;&amp;quot;&amp;amp;strArgName&amp;
146                        PrintUsage
147        End Select
148        GetTrueFalseArg = bArgVal
149
150    End Function &amp;#039;GetTrueFalseArg
151
152
153    &amp;#039; Returns the name of a temporary file in the Temp directory.
154    Function TempName()
155        Dim Result
156        Do
157                Result = FSO.BuildPath(FSO.GetSpecialFolder(TEMP_FOLDER), FSO.GetTempName())
158                WScript.Sleep 200 &amp;#039;avoid potential busy loop
159        Loop While FSO.FileExists(Result)
160
161        TempName = Result
162    End Function &amp;#039;TempName
163
164    &amp;#039; Runs a command with Cmd.exe and redirects its output to a temporary
165    &amp;#039; file. The function returns the name of the temporary file that holds
166    &amp;#039; the command&amp;#039;s output.
167    Function RunCommand(Command, OutputFilename, b64BitNecessary)
168        &amp;#039; 64BitNecessary true when you need to examine the 64-bit areas like system32
169        Dim CommandLine,WshShell,strPRogramFilesx86,strDOSCall,objFSO
170        Set objFSO = CreateObject(&amp;quot;Scripting.FileSystemObject&amp;quot;)
171        Set WshShell = CreateObject(&amp;quot;WScript.Shell&amp;quot;)
172
173        strDOSCall = &amp;quot;%ComSpec% /C &amp;quot;
174
```

```
175      &amp;#039; if 64-bit OS *and* we must examine in 64-bit mode to avoid FS Redirection
176      strProgramFilesx86=WshShell.ExpandEnvironmentStrings(&amp;quot;%ProgramFiles%&amp;quot;)
177      If objFSO.FolderExists(strProgramFilesx86) And b64BitNecessary Then &amp;#039; quick check for x
178          strDOSCall = FixFileSystemRedirectionForPath(WshShell.ExpandEnvironmentStrings(strDOSCal
179      End If
180
181      CommandLine = WshShell.ExpandEnvironmentStrings(strDOSCall &amp;amp; Command &amp;amp; &amp;quot
182      WshShell.Run CommandLine, 0, True
183  End Function &amp;#039;RunCommand
184
185  Function FixFileSystemRedirectionForPath(strFilePath)
186  &amp;#039; This function will fix a folder location so that
187  &amp;#039; a 32-bit program can be passed the windows\system32 directory
188  &amp;#039; as a parameter.
189  &amp;#039; Even if the sensor or action runs in 64-bit mode, a 32-bit
190  &amp;#039; program called in a 64-bit environment cannot access
191  &amp;#039; the system32 directory - it would be redirected to syswow64.
192  &amp;#039; you would not want to do this for 64-bit programs.
193
194      Dim objFSO, strSystem32Location,objShell
195      Dim strProgramFilesx86,strNewSystem32Location,strRestOfPath
196      Set objFSO = CreateObject(&amp;quot;Scripting.FileSystemObject&amp;quot;)
197      Set objShell = CreateObject(&amp;quot;Wscript.Shell&amp;quot;)
198
199      strProgramFilesx86=objShell.ExpandEnvironmentStrings(&amp;quot;%ProgramFiles%&amp;quot;)
200
201      strFilePath = LCase(strFilePath)
202      strSystem32Location = LCase(objFSO.GetSpecialFolder(1))
203      strProgramFilesx86=objShell.ExpandEnvironmentStrings(&amp;quot;%ProgramFiles(x86)%&amp;quot;)
204
205      If objFSO.FolderExists(strProgramFilesx86) Then &amp;#039; quick check for x64
206          If InStr(strFilePath,strSystem32Location) = 1 Then
207              strRestOfPath = Replace(strFilePath,strSystem32Location,&amp;quot;&amp;quot;)
208              strNewSystem32Location = Replace(strSystem32Location,&amp;quot;system32&amp;quot
209              strFilePath = strNewSystem32Location&amp;amp;strRestOfPath
210          End If
211      End If
212      FixFileSystemRedirectionForPath = strFilePath
213
214      &amp;#039;Cleanup
215      Set objFSO = Nothing
216  End Function &amp;#039;FixFileSystemRedirectionForPath
217  &amp;#039;------------ INCLUDES after this line. Do not edit past this point -----
218  &amp;#039;- Begin file: utils/SensorRandomization/SensorRandomizationFunctions.vbs
219  &amp;#039;&amp;#039; -- Begin Random Sleep Functions -- &amp;#039;&amp;#039;
220
221  Dim bSensorRandomizeDebugOutput : bSensorRandomizeDebugOutput = False
222
223  Function SensorRandomizeLow()
224      Dim intSensorRandomizeWaitLow : intSensorRandomizeWaitLow = 10
225      SensorRandomizeRandomSleep(intSensorRandomizeWaitLow)
226  End Function &amp;#039; SensorRandomizeLow
227
228  Function SensorRandomize()
229      Dim intSensorRandomizeWaitMed : intSensorRandomizeWaitMed = 20
230      SensorRandomizeRandomSleep(intSensorRandomizeWaitMed)
231  End Function &amp;#039; SensorRandomize
232
```

```
233   Function SensorRandomizeHigh()
234       Dim intSensorRandomizeWaitHigh : intSensorRandomizeWaitHigh = 30
235       SensorRandomizeRandomSleep(intSensorRandomizeWaitHigh)
236   End Function &amp;#039; SensorRandomize
237
238   Function SensorRandomizeRandomSleep(intSleepTime)
239   &amp;#039; sleeps for a random period of time, intSleepTime is in seconds
240   &amp;#039; if the sensor randomize flag is on
241   &amp;#039; RandomizeScalingFactor is a multiplier on the values hardcoded in the sensor
242   &amp;#039; not typically set but can adjust timings per endpoint, optionally
243       Dim intSensorRandomizeWaitTime
244       Dim objShell,intRandomizeFlag,strRandomizeRegPath,intRandomizeScalingPercentage
245       strRandomizeRegPath = SensorRandomizeGetTaniumRegistryPath&amp;amp;&amp;quot;\Sensor Data\Random
246
247       Set objShell = CreateObject(&amp;quot;WScript.Shell&amp;quot;)
248       On Error Resume Next
249       intRandomizeFlag = objShell.RegRead(&amp;quot;HKLM\&amp;quot;&amp;amp;strRandomizeRegPath&amp;am
250       intRandomizeScalingPercentage = objShell.RegRead(&amp;quot;HKLM\&amp;quot;&amp;amp;strRandomizeR
251       On Error Goto 0
252       If intRandomizeFlag &amp;gt; 0 Then
253               If intRandomizeScalingPercentage &amp;gt; 0 Then
254                       intSleepTime = intRandomizeScalingPercentage * .01 * intSleepTime
255                       SensorRandomizeEcho &amp;quot;Randomize scaling percentage of &amp;quot; _
256                               &amp;amp; intRandomizeScalingPercentage &amp;amp; &amp;quot; applied, ne
257               End If
258               intSensorRandomizeWaitTime = CLng(intSleepTime) * 1000 &amp;#039; convert to millisecond
259               &amp;#039; wait random interval between 0 and the max
260               Randomize(SensorRandomizeTaniumRandomSeed)
261               &amp;#039; assign random value to wait time max value
262               intSensorRandomizeWaitTime = Int( ( intSensorRandomizeWaitTime + 1 ) * Rnd )
263               SensorRandomizeEcho &amp;quot;Sleeping for &amp;quot; &amp;amp; intSensorRandomizeWaitTi
264               WScript.Sleep(intSensorRandomizeWaitTime)
265               SensorRandomizeEcho &amp;quot;Done sleeping, continuing ...&amp;quot;
266       Else
267               SensorRandomizeEcho &amp;quot;SensorRandomize Not Enabled - No Op&amp;quot;
268       End If
269   End Function &amp;#039;SensorRandomizeRandomSleep
270
271   Function SensorRandomizeTaniumRandomSeed
272   &amp;#039; for randomizing sensor code, the default seed is not random enough
273       Dim timerNum
274       timerNum = Timer()
275       If timerNum &amp;lt; 1 Then
276               SensorRandomizeTaniumRandomSeed = (SensorRandomizeGetTaniumComputerID / Timer() * 10 )
277       Else
278               SensorRandomizeTaniumRandomSeed = SensorRandomizeGetTaniumComputerID / Timer
279       End If
280   End Function &amp;#039;SensorRandomizeTaniumRandomSeed
281
282   Function SensorRandomizeGetTaniumRegistryPath
283   &amp;#039;SensorRandomizeGetTaniumRegistryPath works in x64 or x32
284   &amp;#039;looks for a valid Path value
285
286       Dim objShell
287       Dim keyNativePath, keyWoWPath, strPath, strFoundTaniumRegistryPath
288
289       Set objShell = CreateObject(&amp;quot;WScript.Shell&amp;quot;)
290
```

```
291        keyNativePath = &amp;quot;Software\Tanium\Tanium Client&amp;quot;
292        keyWoWPath = &amp;quot;Software\Wow6432Node\Tanium\Tanium Client&amp;quot;
293
294        &amp;#039; first check the Software key (valid for 32-bit machines, or 64-bit machines in 32-bit
295        On Error Resume Next
296        strPath = objShell.RegRead(&amp;quot;HKLM\&amp;quot;&amp;amp;keyNativePath&amp;amp;&amp;quot;\Pa
297        On Error Goto 0
298        strFoundTaniumRegistryPath = keyNativePath
299
300        If strPath = &amp;quot;&amp;quot; Then
301                &amp;#039; Could not find 32-bit mode path, checking Wow6432Node
302                On Error Resume Next
303                strPath = objShell.RegRead(&amp;quot;HKLM\&amp;quot;&amp;amp;keyWoWPath&amp;amp;&amp;quo
304                On Error Goto 0
305                strFoundTaniumRegistryPath = keyWoWPath
306        End If
307
308        If Not strPath = &amp;quot;&amp;quot; Then
309                SensorRandomizeGetTaniumRegistryPath = strFoundTaniumRegistryPath
310        Else
311                SensorRandomizeGetTaniumRegistryPath = False
312                WScript.Echo &amp;quot;Error: Cannot locate Tanium Registry Path&amp;quot;
313        End If
314 End Function &amp;#039;SensorRandomizeGetTaniumRegistryPath
315
316 Function SensorRandomizeGetTaniumComputerID
317 &amp;#039;&amp;#039; This function gets the Tanium Computer ID
318        Dim objShell
319        Dim intClientID,strID,strKeyPath,strValueName
320
321        strKeyPath = SensorRandomizeGetTaniumRegistryPath
322        strValueName = &amp;quot;ComputerID&amp;quot;
323        Set objShell = CreateObject(&amp;quot;WScript.Shell&amp;quot;)
324        On Error Resume Next
325        intClientID = objShell.RegRead(&amp;quot;HKLM\&amp;quot;&amp;amp;strKeyPath&amp;amp;&amp;quot;\&
326        If Err.Number &amp;lt;&amp;gt; 0 Then
327                SensorRandomizeGetTaniumComputerID = 0
328        Else
329                SensorRandomizeGetTaniumComputerID = SensorRandomizeReinterpretSignedAsUnsigned(intClien
330        End If
331        On Error Goto 0
332 End Function &amp;#039;SensorRandomizeGetTaniumComputerID
333
334 Function SensorRandomizeReinterpretSignedAsUnsigned(ByVal x)
335        If x &amp;lt; 0 Then x = x + 2^32
336        SensorRandomizeReinterpretSignedAsUnsigned = x
337 End Function &amp;#039;SensorRandomizeReinterpretSignedAsUnsigned
338
339 Sub SensorRandomizeEcho(str)
340        If bSensorRandomizeDebugOutput = true Then WScript.Echo str
341 End Sub &amp;#039;SensorRandomizeEcho
342 &amp;#039; -- End Random Sleep Functions --&amp;#039;
343 &amp;#039;- End file: utils/SensorRandomization/SensorRandomizationFunctions.vbs</script></query><qu
344 #||dirname||||regexp||||casesensitive||||global||
345 echo Windows Only
346 </script></query><query><platform>Mac</platform><script_type>UnixShell</script_type><script>#!/bin/b
347 #||dirname||||regexp||||casesensitive||||global||
348 echo Windows Only
```

```
349    </script></query></queries></sensor></sensors>
```

Export basetype csv with explode false

Export a BaseType from getting objects as CSV with false for explode_json_string_values

Example Python Code

```
1    # Path to lib directory which contains pytan package
2    PYTAN_LIB_PATH = '../lib'
3
4    # connection info for Tanium Server
5    USERNAME = "Tanium User"
6    PASSWORD = "T@n!um"
7    HOST = "172.16.31.128"
8    PORT = "444"
9
10   # Logging conrols
11   LOGLEVEL = 2
12   DEBUGFORMAT = False
13
14   import sys, tempfile
15   sys.path.append(PYTAN_LIB_PATH)
16
17   import pytan
18   handler = pytan.Handler(
19       username=USERNAME,
20       password=PASSWORD,
21       host=HOST,
22       port=PORT,
23       loglevel=LOGLEVEL,
24       debugformat=DEBUGFORMAT,
25   )
26
27   print handler
28
29   # setup the export_obj kwargs for later
30   export_kwargs = {}
31   export_kwargs["export_format"] = u'csv'
32   export_kwargs["explode_json_string_values"] = False
33
34   # get the objects that will provide the basetype that we want to use
35   get_kwargs = {
36       'name': [
37           "Computer Name", "IP Route Details", "IP Address",
38           'Folder Name Search with RegEx Match',
39       ],
40       'objtype': 'sensor',
41   }
42   response = handler.get(**get_kwargs)
43
44   # export the object to a string
45   # (we could just as easily export to a file using export_to_report_file)
46   export_kwargs['obj'] = response
47   export_str = handler.export_obj(**export_kwargs)
```

```
48
49
50  print ""
51  print "print the export_str returned from export_obj():"
52  print export_str
```

Output from Python Code

```
1   Handler for Session to 172.16.31.128:444, Authenticated: True, Version: 6.2.314.3258
2
3   print the export_str returned from export_obj():
4   category,creation_time,delimiter,description,exclude_from_parse_flag,hash,hidden_flag,id,ignore_case
5   Reserved,,,"The assigned name of the client machine.
6   Example: workstation-1.company.com",0,3409330187,0,3,1,,86400,,,,,Computer Name,,Windows,select CSNa
7   Network,2014-12-06T18:00:24,|,"Returns IPv4 network routes, filtered to exclude noise. With Flags, M
8   Example:  172.16.0.0|192.168.1.1|255.255.0.0|UG|100|eth0",1,435227963,0,737,1,Jim Olsen,60,0,defined
9   Set objWMIService = GetObject(&quot;winmgmts:&quot; _
10      &amp; &quot;{impersonationLevel=impersonate}!\\&quot; &amp; strComputer &amp; &quot;\root\cimv2&
11
12  Set collip = objWMIService.ExecQuery(&quot;select * from win32_networkadapterconfiguration where IPE
13  dim ipaddrs()
14  ipcount = 0
15  for each ipItem in collip
16      for each ipaddr in ipItem.IPAddress
17          ipcount = ipcount + 1
18      next
19  next
20  redim ipaddrs(ipcount)
21  ipcount = 0
22  for each ipItem in collip
23      for each ipaddr in ipItem.IPAddress
24          ipcount = ipcount + 1
25          ipaddrs(ipcount) = ipaddr
26      next
27  next
28  localhost = &quot;127.0.0.1&quot;
29
30  Set colItems = objWMIService.ExecQuery(&quot;Select * from Win32_IP4RouteTable&quot;)
31
32  For Each objItem in colItems
33      dest = objItem.Destination
34      gw = objItem.NextHop
35      mask = objItem.Mask
36      metric = objItem.Metric1
37      flags = objItem.Type
38      intf = objItem.InterfaceIndex
39      For i = 0 to ipcount
40          if gw = ipaddrs(i) and gw &lt;&gt; localhost then
41              gw = &quot;0.0.0.0&quot;
42          end if
43      Next
44      if gw &lt;&gt; localhost and dest &lt;&gt; &quot;224.0.0.0&quot; and right(dest,3) &lt;&gt; &quo
45          Wscript.Echo dest &amp; &quot;|&quot; &amp; gw &amp; &quot;|&quot; &amp; mask &amp; &quot;|&
46      end if
47  Next",VBScript,Linux,"route -n | grep -v Kernel | grep -v Destination | awk &#039;{ print $1 &quot;|
48  ",UnixShell,Mac,"netstat -rn | grep -v &quot;:&quot; | grep -v Destination | grep -v Routing | grep
49  ",UnixShell,0,48,0,1,0,Destination,IPAddress,0,1,1,Gateway,IPAddress,0,1,2,Mask,String,0,1,3,Flags,S
```

```
50  |Network,2014-12-06T18:00:22,",","Current IP Addresses of client machine.
51  |Example: 192.168.1.1",1,3209138996,0,147,1,Jim Olsen,600,0,defined,Tanium,2014-12-06T18:00:22,IP Add
52  |ifconfig | grep -w inet | grep -v 127.0.0.1 | awk &#039;{print $2}&#039; | sed -e &#039;s/addr://&#0
53  |",UnixShell,Mac,"#!/bin/bash
54
55  |ifconfig -a -u |grep &quot;inet&quot; | grep -v &quot;::1&quot; | grep -v &quot;127.0.0.1&quot;| awk
56  |",UnixShell,0,86,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,IPAddress
57  |File System,2014-12-06T18:00:23,",","Finds the specified folder and provides the full path if the fo
58  |Example: C:\WINDOWS\System32",1,1374547302,0,381,1,Jim Olsen,600,0,defined,McAfee,2014-12-06T18:00:2
59  |&#039; Folder Name Search with RegEx Match
60  |&#039;=======================================
61  |&#039;@INCLUDE=utils/SensorRandomization/SensorRandomizationFunctions.vbs
62  |Option Explicit
63
64  |SensorRandomize()
65
66  |Dim Pattern,strRegExp,strGlobalArg,strCaseSensitiveArg
67  |Dim bGlobal,bCaseSensitive
68
69  |Pattern = unescape(&quot;||dirname||&quot;)
70  |strRegExp = Trim(Unescape(&quot;||regexp||&quot;))
71  |strGlobalArg = Trim(Unescape(&quot;||global||&quot;))
72  |strCaseSensitiveArg = Trim(Unescape(&quot;||casesensitive||&quot;))
73
74  |bGlobal = GetTrueFalseArg(&quot;global&quot;,strGlobalArg)
75  |bCaseSensitive = GetTrueFalseArg(&quot;casesensitive&quot;,strCaseSensitiveArg)
76
77  |Const SYSTEM_FOLDER = 1, TEMP_FOLDER = 2, FOR_READING = 1
78
79  |Dim FSO, WshShell, Drives, Drive, TextStream, OutputFilename, strLine
80
81  |Set FSO = CreateObject(&quot;Scripting.FileSystemObject&quot;)
82  |Set WshShell = CreateObject(&quot;WScript.Shell&quot;)
83
84  |OutputFilename = TempName() &#039; a temporary file in system&#039;s temp dir
85
86  |&#039; Go through file system, refresh output file for filename
87  |If Not FSO.FileExists(OutputFilename) Then
88
89  |    If FSO.FileExists(OutputFilename) Then FSO.DeleteFile OutputFilename
90
91  |    &#039; Get the collection of local drives.
92  |    Set Drives = FSO.Drives
93  |    For Each Drive in Drives
94  |            If Drive.DriveType = 2 Then &#039; 2 = Fixed drive
95  |                    &#039; Run the Dir command that looks for the filename pattern.
96  |                    RunCommand &quot;dir &quot; &amp;Chr(34)&amp; Drive.DriveLetter &amp; &quot;:\&q
97  |            End If
98  |    Next
99  |End If
100
101 |&#039; Open the output file, echo each line, and then close and delete it.
102 |Set TextStream = FSO.OpenTextFile(OutputFileName, FOR_READING)
103 |Do While Not TextStream.AtEndOfStream
104 |    strLine = TextStream.ReadLine()
105 |    If RegExpMatch(strRegExp,strLine,bGlobal,bCaseSensitive) Then
106 |            WScript.Echo strLine
107 |    End If
```

```
108   Loop
109
110
111   TextStream.Close()
112
113   If FSO.FileExists(OutputFileName) Then
114       On Error Resume Next
115       FSO.DeleteFile OutputFileName, True
116       On Error Goto 0
117   End If
118
119   Function RegExpMatch(strPattern,strToMatch,bGlobal,bIsCaseSensitive)
120
121       Dim re
122       Set re = New RegExp
123       With re
124         .Pattern = strPattern
125         .Global = bGlobal
126         .IgnoreCase = Not bIsCaseSensitive
127       End With
128
129       RegExpMatch = re.Test(strToMatch)
130
131   End Function &#039;RegExpMatch
132
133
134   Function GetTrueFalseArg(strArgName,strArgValue)
135       &#039; Checks for valid values, will fail with error message
136
137       Dim bArgVal
138       bArgVal = False
139       Select Case LCase(strArgValue)
140             Case &quot;true&quot;
141                     bArgVal = True
142             Case &quot;yes&quot;
143                     bArgVal = True
144             Case &quot;false&quot;
145                     bArgVal = False
146             Case &quot;no&quot;
147                     bArgVal = False
148             Case Else
149                     WScript.Echo &quot;Error: Argument &#039;&quot;&amp;strArgName&amp;&quot;&#039;
150                     PrintUsage
151       End Select
152       GetTrueFalseArg = bArgVal
153
154   End Function &#039;GetTrueFalseArg
155
156
157   &#039; Returns the name of a temporary file in the Temp directory.
158   Function TempName()
159       Dim Result
160       Do
161             Result = FSO.BuildPath(FSO.GetSpecialFolder(TEMP_FOLDER), FSO.GetTempName())
162             WScript.Sleep 200 &#039;avoid potential busy loop
163       Loop While FSO.FileExists(Result)
164
165       TempName = Result
```

```
166   End Function '&#039;TempName
167
168   &#039; Runs a command with Cmd.exe and redirects its output to a temporary
169   &#039; file. The function returns the name of the temporary file that holds
170   &#039; the command&#039;s output.
171   Function RunCommand(Command, OutputFilename, b64BitNecessary)
172       &#039; 64BitNecessary true when you need to examine the 64-bit areas like system32
173       Dim CommandLine,WshShell,strPRogramFilesx86,strDOSCall,objFSO
174       Set objFSO = CreateObject(&quot;Scripting.FileSystemObject&quot;)
175       Set WshShell = CreateObject(&quot;WScript.Shell&quot;)
176
177       strDOSCall = &quot;%ComSpec% /C &quot;
178
179       &#039; if 64-bit OS *and* we must examine in 64-bit mode to avoid FS Redirection
180       strProgramFilesx86=WshShell.ExpandEnvironmentStrings(&quot;%ProgramFiles%&quot;)
181       If objFSO.FolderExists(strProgramFilesx86) And b64BitNecessary Then &#039; quick check for x64
182               strDOSCall = FixFileSystemRedirectionForPath(WshShell.ExpandEnvironmentStrings(strDOSCal
183       End If
184
185       CommandLine = WshShell.ExpandEnvironmentStrings(strDOSCall &amp; Command &amp; &quot; &gt;&gt; &
186       WshShell.Run CommandLine, 0, True
187   End Function '&#039;RunCommand
188
189   Function FixFileSystemRedirectionForPath(strFilePath)
190   &#039; This function will fix a folder location so that
191   &#039; a 32-bit program can be passed the windows\system32 directory
192   &#039; as a parameter.
193   &#039; Even if the sensor or action runs in 64-bit mode, a 32-bit
194   &#039; program called in a 64-bit environment cannot access
195   &#039; the system32 directory - it would be redirected to syswow64.
196   &#039; you would not want to do this for 64-bit programs.
197
198       Dim objFSO, strSystem32Location,objShell
199       Dim strProgramFilesx86,strNewSystem32Location,strRestOfPath
200       Set objFSO = CreateObject(&quot;Scripting.FileSystemObject&quot;)
201       Set objShell = CreateObject(&quot;Wscript.Shell&quot;)
202
203       strProgramFilesx86=objShell.ExpandEnvironmentStrings(&quot;%ProgramFiles%&quot;)
204
205       strFilePath = LCase(strFilePath)
206       strSystem32Location = LCase(objFSO.GetSpecialFolder(1))
207       strProgramFilesx86=objShell.ExpandEnvironmentStrings(&quot;%ProgramFiles(x86)%&quot;)
208
209       If objFSO.FolderExists(strProgramFilesx86) Then &#039; quick check for x64
210               If InStr(strFilePath,strSystem32Location) = 1 Then
211                       strRestOfPath = Replace(strFilePath,strSystem32Location,&quot;&quot;)
212                       strNewSystem32Location = Replace(strSystem32Location,&quot;system32&quot;,&quot;
213                       strFilePath = strNewSystem32Location&amp;strRestOfPath
214               End If
215       End If
216       FixFileSystemRedirectionForPath = strFilePath
217
218       &#039;Cleanup
219       Set objFSO = Nothing
220   End Function '&#039;FixFileSystemRedirectionForPath
221   &#039;------------ INCLUDES after this line. Do not edit past this point -----
222   &#039;- Begin file: utils/SensorRandomization/SensorRandomizationFunctions.vbs
223   &#039;&#039; -- Begin Random Sleep Functions -- &#039;&#039;
```

```
224
225  Dim bSensorRandomizeDebugOutput : bSensorRandomizeDebugOutput = False
226
227  Function SensorRandomizeLow()
228      Dim intSensorRandomizeWaitLow : intSensorRandomizeWaitLow = 10
229      SensorRandomizeRandomSleep(intSensorRandomizeWaitLow)
230  End Function &#039; SensorRandomizeLow
231
232  Function SensorRandomize()
233      Dim intSensorRandomizeWaitMed : intSensorRandomizeWaitMed = 20
234      SensorRandomizeRandomSleep(intSensorRandomizeWaitMed)
235  End Function &#039; SensorRandomize
236
237  Function SensorRandomizeHigh()
238      Dim intSensorRandomizeWaitHigh : intSensorRandomizeWaitHigh = 30
239      SensorRandomizeRandomSleep(intSensorRandomizeWaitHigh)
240  End Function &#039; SensorRandomize
241
242  Function SensorRandomizeRandomSleep(intSleepTime)
243  &#039; sleeps for a random period of time, intSleepTime is in seconds
244  &#039; if the sensor randomize flag is on
245  &#039; RandomizeScalingFactor is a multiplier on the values hardcoded in the sensor
246  &#039; not typically set but can adjust timings per endpoint, optionally
247      Dim intSensorRandomizeWaitTime
248      Dim objShell,intRandomizeFlag,strRandomizeRegPath,intRandomizeScalingPercentage
249      strRandomizeRegPath = SensorRandomizeGetTaniumRegistryPath&amp;&quot;\Sensor Data\Random Sleep&q
250
251      Set objShell = CreateObject(&quot;WScript.Shell&quot;)
252      On Error Resume Next
253      intRandomizeFlag = objShell.RegRead(&quot;HKLM\&quot;&amp;strRandomizeRegPath&amp;&quot;\SensorR
254      intRandomizeScalingPercentage = objShell.RegRead(&quot;HKLM\&quot;&amp;strRandomizeRegPath&amp;&
255      On Error Goto 0
256      If intRandomizeFlag &gt; 0 Then
257              If intRandomizeScalingPercentage &gt; 0 Then
258                      intSleepTime = intRandomizeScalingPercentage * .01 * intSleepTime
259                      SensorRandomizeEcho &quot;Randomize scaling percentage of &quot; _
260                              &amp; intRandomizeScalingPercentage &amp; &quot; applied, new sleep time
261              End If
262              intSensorRandomizeWaitTime = CLng(intSleepTime) * 1000 &#039; convert to milliseconds
263              &#039; wait random interval between 0 and the max
264              Randomize(SensorRandomizeTaniumRandomSeed)
265              &#039; assign random value to wait time max value
266              intSensorRandomizeWaitTime = Int( ( intSensorRandomizeWaitTime + 1 ) * Rnd )
267              SensorRandomizeEcho &quot;Sleeping for &quot; &amp; intSensorRandomizeWaitTime &amp; &qu
268              WScript.Sleep(intSensorRandomizeWaitTime)
269              SensorRandomizeEcho &quot;Done sleeping, continuing ...&quot;
270      Else
271              SensorRandomizeEcho &quot;SensorRandomize Not Enabled - No Op&quot;
272      End If
273  End Function &#039;SensorRandomizeRandomSleep
274
275  Function SensorRandomizeTaniumRandomSeed
276  &#039; for randomizing sensor code, the default seed is not random enough
277      Dim timerNum
278      timerNum = Timer()
279      If timerNum &lt; 1 Then
280              SensorRandomizeTaniumRandomSeed = (SensorRandomizeGetTaniumComputerID / Timer() * 10 )
281      Else
```

```
282              SensorRandomizeTaniumRandomSeed = SensorRandomizeGetTaniumComputerID / Timer
283       End If
284   End Function 'SensorRandomizeTaniumRandomSeed
285
286   Function SensorRandomizeGetTaniumRegistryPath
287   'SensorRandomizeGetTaniumRegistryPath works in x64 or x32
288   'looks for a valid Path value
289
290       Dim objShell
291       Dim keyNativePath, keyWoWPath, strPath, strFoundTaniumRegistryPath
292
293       Set objShell = CreateObject("WScript.Shell")
294
295       keyNativePath = "Software\Tanium\Tanium Client"
296       keyWoWPath = "Software\Wow6432Node\Tanium\Tanium Client"
297
298       ' first check the Software key (valid for 32-bit machines, or 64-bit machines in 32-bit mod
299       On Error Resume Next
300       strPath = objShell.RegRead("HKLM\"&keyNativePath&"\Path")
301       On Error Goto 0
302       strFoundTaniumRegistryPath = keyNativePath
303
304       If strPath = "" Then
305               ' Could not find 32-bit mode path, checking Wow6432Node
306               On Error Resume Next
307               strPath = objShell.RegRead("HKLM\"&keyWoWPath&"\Path")
308               On Error Goto 0
309               strFoundTaniumRegistryPath = keyWoWPath
310       End If
311
312       If Not strPath = "" Then
313               SensorRandomizeGetTaniumRegistryPath = strFoundTaniumRegistryPath
314       Else
315               SensorRandomizeGetTaniumRegistryPath = False
316               WScript.Echo "Error: Cannot locate Tanium Registry Path"
317       End If
318   End Function 'SensorRandomizeGetTaniumRegistryPath
319
320   Function SensorRandomizeGetTaniumComputerID
321   '' This function gets the Tanium Computer ID
322       Dim objShell
323       Dim intClientID,strID,strKeyPath,strValueName
324
325       strKeyPath = SensorRandomizeGetTaniumRegistryPath
326       strValueName = "ComputerID"
327       Set objShell = CreateObject("WScript.Shell")
328       On Error Resume Next
329       intClientID = objShell.RegRead("HKLM\"&strKeyPath&"\"&strValueNa
330       If Err.Number <> 0 Then
331               SensorRandomizeGetTaniumComputerID = 0
332       Else
333               SensorRandomizeGetTaniumComputerID = SensorRandomizeReinterpretSignedAsUnsigned(intClien
334       End If
335       On Error Goto 0
336   End Function 'SensorRandomizeGetTaniumComputerID
337
338   Function SensorRandomizeReinterpretSignedAsUnsigned(ByVal x)
339       If x < 0 Then x = x + 2^32
```

```
340         SensorRandomizeReinterpretSignedAsUnsigned = x
341 End Function &#039;SensorRandomizeReinterpretSignedAsUnsigned
342
343 Sub SensorRandomizeEcho(str)
344     If bSensorRandomizeDebugOutput = true Then WScript.Echo str
345 End Sub &#039;SensorRandomizeEcho
346 &#039; -- End Random Sleep Functions --&#039;
347 &#039;- End file: utils/SensorRandomization/SensorRandomizationFunctions.vbs",VBScript,Linux,"#!/bin
348 #||dirname||||regexp||||casesensitive||||global||
349 echo Windows Only
350 ",UnixShell,Mac,"#!/bin/bash
351 #||dirname||||regexp||||casesensitive||||global||
352 echo Windows Only
353 ",UnixShell,0,3,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,String
```

Export basetype csv with explode true

Export a BaseType from getting objects as CSV with true for explode_json_string_values

Example Python Code

```python
1  # Path to lib directory which contains pytan package
2  PYTAN_LIB_PATH = '../lib'
3
4  # connection info for Tanium Server
5  USERNAME = "Tanium User"
6  PASSWORD = "T@n!um"
7  HOST = "172.16.31.128"
8  PORT = "444"
9
10 # Logging conrols
11 LOGLEVEL = 2
12 DEBUGFORMAT = False
13
14 import sys, tempfile
15 sys.path.append(PYTAN_LIB_PATH)
16
17 import pytan
18 handler = pytan.Handler(
19     username=USERNAME,
20     password=PASSWORD,
21     host=HOST,
22     port=PORT,
23     loglevel=LOGLEVEL,
24     debugformat=DEBUGFORMAT,
25 )
26
27 print handler
28
29 # setup the export_obj kwargs for later
30 export_kwargs = {}
31 export_kwargs["export_format"] = u'csv'
32 export_kwargs["explode_json_string_values"] = True
33
34 # get the objects that will provide the basetype that we want to use
```

```
35   get_kwargs = {
36       'name': [
37           "Computer Name", "IP Route Details", "IP Address",
38           'Folder Name Search with RegEx Match',
39       ],
40       'objtype': 'sensor',
41   }
42   response = handler.get(**get_kwargs)
43
44   # export the object to a string
45   # (we could just as easily export to a file using export_to_report_file)
46   export_kwargs['obj'] = response
47   export_str = handler.export_obj(**export_kwargs)
48
49
50   print ""
51   print "print the export_str returned from export_obj():"
52   print export_str
```

Output from Python Code

```
1   Handler for Session to 172.16.31.128:444, Authenticated: True, Version: 6.2.314.3258
2
3   print the export_str returned from export_obj():
4   category,creation_time,delimiter,description,exclude_from_parse_flag,hash,hidden_flag,id,ignore_case
5   Reserved,,,"The assigned name of the client machine.
6   Example: workstation-1.company.com",0,3409330187,0,3,1,,86400,,,,,Computer Name,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
7   Network,2014-12-06T18:00:24,|,"Returns IPv4 network routes, filtered to exclude noise. With Flags, M
8   Example:  172.16.0.0|192.168.1.1|255.255.0.0|UG|100|eth0",1,435227963,0,737,1,Jim Olsen,60,0,defined
9   Set objWMIService = GetObject(&quot;winmgmts:&quot; _
10      &amp; &quot;{impersonationLevel=impersonate}!\\&quot; &amp; strComputer &amp; &quot;\root\cimv2&
11
12   Set collip = objWMIService.ExecQuery(&quot;select * from win32_networkadapterconfiguration where IPE
13   dim ipaddrs()
14   ipcount = 0
15   for each ipItem in collip
16       for each ipaddr in ipItem.IPAddress
17           ipcount = ipcount + 1
18       next
19   next
20   redim ipaddrs(ipcount)
21   ipcount = 0
22   for each ipItem in collip
23       for each ipaddr in ipItem.IPAddress
24           ipcount = ipcount + 1
25           ipaddrs(ipcount) = ipaddr
26       next
27   next
28   localhost = &quot;127.0.0.1&quot;
29
30   Set colItems = objWMIService.ExecQuery(&quot;Select * from Win32_IP4RouteTable&quot;)
31
32   For Each objItem in colItems
33       dest = objItem.Destination
34       gw = objItem.NextHop
35       mask = objItem.Mask
36       metric = objItem.Metric1
```

```
37        flags = objItem.Type
38        intf = objItem.InterfaceIndex
39        For i = 0 to ipcount
40            if gw = ipaddrs(i) and gw <> localhost then
41                gw = "0.0.0.0"
42            end if
43        Next
44        if gw <> localhost and dest <> "224.0.0.0" and right(dest,3) <> "qu
45            Wscript.Echo dest & "|" & gw & "|" & mask & "|&
46        end if
47  Next",VBScript,Linux,"route -n | grep -v Kernel | grep -v Destination | awk '{ print $1 "|
48  ",UnixShell,Mac,"netstat -rn | grep -v ":" | grep -v Destination | grep -v Routing | grep
49  ",UnixShell,0,48,0,1,0,Destination,IPAddress,0,1,1,Gateway,IPAddress,0,1,2,Mask,String,0,1,3,Flags,S
50  Network,2014-12-06T18:00:22,",","Current IP Addresses of client machine.
51  Example: 192.168.1.1",1,3209138996,0,147,1,Jim Olsen,600,0,defined,Tanium,2014-12-06T18:00:22,IP Add
52  ifconfig | grep -w inet | grep -v 127.0.0.1 | awk '{print $2}' | sed -e 's/addr://'&#0
53  ",UnixShell,Mac,"#!/bin/bash
54
55  ifconfig -a -u |grep "inet" | grep -v "::1" | grep -v "127.0.0.1"| awk
56  ",UnixShell,0,86,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,IPAddress
57  File System,2014-12-06T18:00:23,",","Finds the specified folder and provides the full path if the fo
58  Example: C:\WINDOWS\System32",1,1374547302,0,381,1,Jim Olsen,600,0,defined,McAfee,2014-12-06T18:00:2
59  ' Folder Name Search with RegEx Match
60  '=======================================
61  '@INCLUDE=utils/SensorRandomization/SensorRandomizationFunctions.vbs
62  Option Explicit
63
64  SensorRandomize()
65
66  Dim Pattern,strRegExp,strGlobalArg,strCaseSensitiveArg
67  Dim bGlobal,bCaseSensitive
68
69  Pattern = unescape("||dirname||")
70  strRegExp = Trim(Unescape("||regexp||"))
71  strGlobalArg = Trim(Unescape("||global||"))
72  strCaseSensitiveArg = Trim(Unescape("||casesensitive||"))
73
74  bGlobal = GetTrueFalseArg("global",strGlobalArg)
75  bCaseSensitive = GetTrueFalseArg("casesensitive",strCaseSensitiveArg)
76
77  Const SYSTEM_FOLDER = 1, TEMP_FOLDER = 2, FOR_READING = 1
78
79  Dim FSO, WshShell, Drives, Drive, TextStream, OutputFilename, strLine
80
81  Set FSO = CreateObject("Scripting.FileSystemObject")
82  Set WshShell = CreateObject("WScript.Shell")
83
84  OutputFilename = TempName() ' a temporary file in system's temp dir
85
86  ' Go through file system, refresh output file for filename
87  If Not FSO.FileExists(OutputFilename) Then
88
89      If FSO.FileExists(OutputFilename) Then FSO.DeleteFile OutputFilename
90
91      ' Get the collection of local drives.
92      Set Drives = FSO.Drives
93      For Each Drive in Drives
94              If Drive.DriveType = 2 Then ' 2 = Fixed drive
```

```
95                          &#039; Run the Dir command that looks for the filename pattern.
96                          RunCommand &quot;dir &quot; &amp;Chr(34)&amp; Drive.DriveLetter &amp; &quot;:\&q
97              End If
98      Next
99  End If
100
101 &#039; Open the output file, echo each line, and then close and delete it.
102 Set TextStream = FSO.OpenTextFile(OutputFileName, FOR_READING)
103 Do While Not TextStream.AtEndOfStream
104     strLine = TextStream.ReadLine()
105     If RegExpMatch(strRegExp,strLine,bGlobal,bCaseSensitive) Then
106              WScript.Echo strLine
107     End If
108 Loop
109
110
111 TextStream.Close()
112
113 If FSO.FileExists(OutputFileName) Then
114     On Error Resume Next
115     FSO.DeleteFile OutputFileName, True
116     On Error Goto 0
117 End If
118
119 Function RegExpMatch(strPattern,strToMatch,bGlobal,bIsCaseSensitive)
120
121     Dim re
122     Set re = New RegExp
123     With re
124       .Pattern = strPattern
125       .Global = bGlobal
126       .IgnoreCase = Not bIsCaseSensitive
127     End With
128
129     RegExpMatch = re.Test(strToMatch)
130
131 End Function &#039;RegExpMatch
132
133
134 Function GetTrueFalseArg(strArgName,strArgValue)
135     &#039; Checks for valid values, will fail with error message
136
137     Dim bArgVal
138     bArgVal = False
139     Select Case LCase(strArgValue)
140             Case &quot;true&quot;
141                     bArgVal = True
142             Case &quot;yes&quot;
143                     bArgVal = True
144             Case &quot;false&quot;
145                     bArgVal = False
146             Case &quot;no&quot;
147                     bArgVal = False
148             Case Else
149                     WScript.Echo &quot;Error: Argument &#039;&quot;&amp;strArgName&amp;&quot;&#039;
150                     PrintUsage
151     End Select
152     GetTrueFalseArg = bArgVal
```

```
153
154     End Function &#039;GetTrueFalseArg
155
156
157     &#039; Returns the name of a temporary file in the Temp directory.
158     Function TempName()
159         Dim Result
160         Do
161                 Result = FSO.BuildPath(FSO.GetSpecialFolder(TEMP_FOLDER), FSO.GetTempName())
162                 WScript.Sleep 200 &#039;avoid potential busy loop
163         Loop While FSO.FileExists(Result)
164
165         TempName = Result
166     End Function &#039;TempName
167
168     &#039; Runs a command with Cmd.exe and redirects its output to a temporary
169     &#039; file. The function returns the name of the temporary file that holds
170     &#039; the command&#039;s output.
171     Function RunCommand(Command, OutputFilename, b64BitNecessary)
172         &#039; 64BitNecessary true when you need to examine the 64-bit areas like system32
173         Dim CommandLine,WshShell,strPRogramFilesx86,strDOSCall,objFSO
174         Set objFSO = CreateObject(&quot;Scripting.FileSystemObject&quot;)
175         Set WshShell = CreateObject(&quot;WScript.Shell&quot;)
176
177         strDOSCall = &quot;%ComSpec% /C &quot;
178
179         &#039; if 64-bit OS *and* we must examine in 64-bit mode to avoid FS Redirection
180         strProgramFilesx86=WshShell.ExpandEnvironmentStrings(&quot;%ProgramFiles%&quot;)
181         If objFSO.FolderExists(strProgramFilesx86) And b64BitNecessary Then &#039; quick check for x64
182                 strDOSCall = FixFileSystemRedirectionForPath(WshShell.ExpandEnvironmentStrings(strDOSCall
183         End If
184
185         CommandLine = WshShell.ExpandEnvironmentStrings(strDOSCall &amp; Command &amp; &quot; &gt;&gt; &
186         WshShell.Run CommandLine, 0, True
187     End Function &#039;RunCommand
188
189     Function FixFileSystemRedirectionForPath(strFilePath)
190     &#039; This function will fix a folder location so that
191     &#039; a 32-bit program can be passed the windows\system32 directory
192     &#039; as a parameter.
193     &#039; Even if the sensor or action runs in 64-bit mode, a 32-bit
194     &#039; program called in a 64-bit environment cannot access
195     &#039; the system32 directory - it would be redirected to syswow64.
196     &#039; you would not want to do this for 64-bit programs.
197
198         Dim objFSO, strSystem32Location,objShell
199         Dim strProgramFilesx86,strNewSystem32Location,strRestOfPath
200         Set objFSO = CreateObject(&quot;Scripting.FileSystemObject&quot;)
201         Set objShell = CreateObject(&quot;Wscript.Shell&quot;)
202
203         strProgramFilesx86=objShell.ExpandEnvironmentStrings(&quot;%ProgramFiles%&quot;)
204
205         strFilePath = LCase(strFilePath)
206         strSystem32Location = LCase(objFSO.GetSpecialFolder(1))
207         strProgramFilesx86=objShell.ExpandEnvironmentStrings(&quot;%ProgramFiles(x86)%&quot;)
208
209         If objFSO.FolderExists(strProgramFilesx86) Then &#039; quick check for x64
210                 If InStr(strFilePath,strSystem32Location) = 1 Then
```

```
211                     strRestOfPath = Replace(strFilePath,strSystem32Location,&quot;&quot;)
212                     strNewSystem32Location = Replace(strSystem32Location,&quot;system32&quot;,&quot;
213                     strFilePath = strNewSystem32Location&amp;strRestOfPath
214             End If
215     End If
216     FixFileSystemRedirectionForPath = strFilePath
217
218     &#039;Cleanup
219     Set objFSO = Nothing
220 End Function &#039;FixFileSystemRedirectionForPath
221 &#039;------------ INCLUDES after this line. Do not edit past this point -----
222 &#039;- Begin file: utils/SensorRandomization/SensorRandomizationFunctions.vbs
223 &#039;&#039; -- Begin Random Sleep Functions -- &#039;&#039;
224
225 Dim bSensorRandomizeDebugOutput : bSensorRandomizeDebugOutput = False
226
227 Function SensorRandomizeLow()
228     Dim intSensorRandomizeWaitLow : intSensorRandomizeWaitLow = 10
229     SensorRandomizeRandomSleep(intSensorRandomizeWaitLow)
230 End Function &#039; SensorRandomizeLow
231
232 Function SensorRandomize()
233     Dim intSensorRandomizeWaitMed : intSensorRandomizeWaitMed = 20
234     SensorRandomizeRandomSleep(intSensorRandomizeWaitMed)
235 End Function &#039; SensorRandomize
236
237 Function SensorRandomizeHigh()
238     Dim intSensorRandomizeWaitHigh : intSensorRandomizeWaitHigh = 30
239     SensorRandomizeRandomSleep(intSensorRandomizeWaitHigh)
240 End Function &#039; SensorRandomize
241
242 Function SensorRandomizeRandomSleep(intSleepTime)
243 &#039; sleeps for a random period of time, intSleepTime is in seconds
244 &#039; if the sensor randomize flag is on
245 &#039; RandomizeScalingFactor is a multiplier on the values hardcoded in the sensor
246 &#039; not typically set but can adjust timings per endpoint, optionally
247     Dim intSensorRandomizeWaitTime
248     Dim objShell,intRandomizeFlag,strRandomizeRegPath,intRandomizeScalingPercentage
249     strRandomizeRegPath = SensorRandomizeGetTaniumRegistryPath&amp;&quot;\Sensor Data\Random Sleep&q
250
251     Set objShell = CreateObject(&quot;WScript.Shell&quot;)
252     On Error Resume Next
253     intRandomizeFlag = objShell.RegRead(&quot;HKLM\&quot;&amp;strRandomizeRegPath&amp;&quot;\SensorR
254     intRandomizeScalingPercentage = objShell.RegRead(&quot;HKLM\&quot;&amp;strRandomizeRegPath&amp;&
255     On Error Goto 0
256     If intRandomizeFlag &gt; 0 Then
257             If intRandomizeScalingPercentage &gt; 0 Then
258                     intSleepTime = intRandomizeScalingPercentage * .01 * intSleepTime
259                     SensorRandomizeEcho &quot;Randomize scaling percentage of &quot; _
260                             &amp; intRandomizeScalingPercentage &amp; &quot; applied, new sleep time
261             End If
262             intSensorRandomizeWaitTime = CLng(intSleepTime) * 1000 &#039; convert to milliseconds
263             &#039; wait random interval between 0 and the max
264             Randomize(SensorRandomizeTaniumRandomSeed)
265             &#039; assign random value to wait time max value
266             intSensorRandomizeWaitTime = Int( ( intSensorRandomizeWaitTime + 1 ) * Rnd )
267             SensorRandomizeEcho &quot;Sleeping for &quot; &amp; intSensorRandomizeWaitTime &amp; &qu
268             WScript.Sleep(intSensorRandomizeWaitTime)
```

```
269                     SensorRandomizeEcho &quot;Done sleeping, continuing ...&quot;
270         Else
271                     SensorRandomizeEcho &quot;SensorRandomize Not Enabled - No Op&quot;
272         End If
273     End Function &#039;SensorRandomizeRandomSleep
274
275     Function SensorRandomizeTaniumRandomSeed
276     &#039; for randomizing sensor code, the default seed is not random enough
277         Dim timerNum
278         timerNum = Timer()
279         If timerNum &lt; 1 Then
280                     SensorRandomizeTaniumRandomSeed = (SensorRandomizeGetTaniumComputerID / Timer() * 10 )
281         Else
282                     SensorRandomizeTaniumRandomSeed = SensorRandomizeGetTaniumComputerID / Timer
283         End If
284     End Function &#039;SensorRandomizeTaniumRandomSeed
285
286     Function SensorRandomizeGetTaniumRegistryPath
287     &#039;SensorRandomizeGetTaniumRegistryPath works in x64 or x32
288     &#039;looks for a valid Path value
289
290         Dim objShell
291         Dim keyNativePath, keyWoWPath, strPath, strFoundTaniumRegistryPath
292
293         Set objShell = CreateObject(&quot;WScript.Shell&quot;)
294
295         keyNativePath = &quot;Software\Tanium\Tanium Client&quot;
296         keyWoWPath = &quot;Software\Wow6432Node\Tanium\Tanium Client&quot;
297
298         &#039; first check the Software key (valid for 32-bit machines, or 64-bit machines in 32-bit mod
299         On Error Resume Next
300         strPath = objShell.RegRead(&quot;HKLM\&quot;&amp;keyNativePath&amp;&quot;\Path&quot;)
301         On Error Goto 0
302         strFoundTaniumRegistryPath = keyNativePath
303
304         If strPath = &quot;&quot; Then
305                     &#039; Could not find 32-bit mode path, checking Wow6432Node
306                     On Error Resume Next
307                     strPath = objShell.RegRead(&quot;HKLM\&quot;&amp;keyWoWPath&amp;&quot;\Path&quot;)
308                     On Error Goto 0
309                     strFoundTaniumRegistryPath = keyWoWPath
310         End If
311
312         If Not strPath = &quot;&quot; Then
313                     SensorRandomizeGetTaniumRegistryPath = strFoundTaniumRegistryPath
314         Else
315                     SensorRandomizeGetTaniumRegistryPath = False
316                     WScript.Echo &quot;Error: Cannot locate Tanium Registry Path&quot;
317         End If
318     End Function &#039;SensorRandomizeGetTaniumRegistryPath
319
320     Function SensorRandomizeGetTaniumComputerID
321     &#039;&#039; This function gets the Tanium Computer ID
322         Dim objShell
323         Dim intClientID,strID,strKeyPath,strValueName
324
325         strKeyPath = SensorRandomizeGetTaniumRegistryPath
326         strValueName = &quot;ComputerID&quot;
```

```
327        Set objShell = CreateObject(&quot;WScript.Shell&quot;)
328        On Error Resume Next
329        intClientID = objShell.RegRead(&quot;HKLM\&quot;&amp;strKeyPath&amp;&quot;\&quot;&amp;strValueNa
330        If Err.Number &lt;&gt; 0 Then
331                SensorRandomizeGetTaniumComputerID = 0
332        Else
333                SensorRandomizeGetTaniumComputerID = SensorRandomizeReinterpretSignedAsUnsigned(intClien
334        End If
335        On Error Goto 0
336    End Function &#039;SensorRandomizeGetTaniumComputerID
337
338    Function SensorRandomizeReinterpretSignedAsUnsigned(ByVal x)
339        If x &lt; 0 Then x = x + 2^32
340        SensorRandomizeReinterpretSignedAsUnsigned = x
341    End Function &#039;SensorRandomizeReinterpretSignedAsUnsigned
342
343    Sub SensorRandomizeEcho(str)
344        If bSensorRandomizeDebugOutput = true Then WScript.Echo str
345    End Sub &#039;SensorRandomizeEcho
346    &#039; -- End Random Sleep Functions --&#039;
347    &#039;- End file: utils/SensorRandomization/SensorRandomizationFunctions.vbs",VBScript,Linux,"#!/bin
348    #||dirname||||regexp||||casesensitive||||global||
349    echo Windows Only
350    ",UnixShell,Mac,"#!/bin/bash
351    #||dirname||||regexp||||casesensitive||||global||
352    echo Windows Only
353    ",UnixShell,0,3,,,,,,,,,,,,,,,,,,,,,,,,,,,,,String
```

Export basetype csv with sort empty list

Export a BaseType from getting objects as CSV with an empty list for header_sort

Example Python Code

```python
1    # Path to lib directory which contains pytan package
2    PYTAN_LIB_PATH = '../lib'
3
4    # connection info for Tanium Server
5    USERNAME = "Tanium User"
6    PASSWORD = "T@n!um"
7    HOST = "172.16.31.128"
8    PORT = "444"
9
10   # Logging conrols
11   LOGLEVEL = 2
12   DEBUGFORMAT = False
13
14   import sys, tempfile
15   sys.path.append(PYTAN_LIB_PATH)
16
17   import pytan
18   handler = pytan.Handler(
19       username=USERNAME,
20       password=PASSWORD,
21       host=HOST,
```

```
22        port=PORT,
23        loglevel=LOGLEVEL,
24        debugformat=DEBUGFORMAT,
25    )
26
27    print handler
28
29    # setup the export_obj kwargs for later
30    export_kwargs = {}
31    export_kwargs["export_format"] = u'csv'
32    export_kwargs["header_sort"] = []
33
34    # get the objects that will provide the basetype that we want to use
35    get_kwargs = {
36        'name': [
37            "Computer Name", "IP Route Details", "IP Address",
38            'Folder Name Search with RegEx Match',
39        ],
40        'objtype': 'sensor',
41    }
42    response = handler.get(**get_kwargs)
43
44    # export the object to a string
45    # (we could just as easily export to a file using export_to_report_file)
46    export_kwargs['obj'] = response
47    export_str = handler.export_obj(**export_kwargs)
48
49
50    print ""
51    print "print the export_str returned from export_obj():"
52    print export_str
```

Output from Python Code

```
1    Handler for Session to 172.16.31.128:444, Authenticated: True, Version: 6.2.314.3258
2
3    print the export_str returned from export_obj():
4    category,creation_time,delimiter,description,exclude_from_parse_flag,hash,hidden_flag,id,ignore_case
5    Reserved,,,"The assigned name of the client machine.
6    Example: workstation-1.company.com",0,3409330187,0,3,1,,86400,,,,,Computer Name,,Windows,select CSNa
7    Network,2014-12-06T18:00:24,|,"Returns IPv4 network routes, filtered to exclude noise. With Flags, M
8    Example:  172.16.0.0|192.168.1.1|255.255.0.0|UG|100|eth0",1,435227963,0,737,1,Jim Olsen,60,0,defined
9    Set objWMIService = GetObject(&quot;winmgmts:&quot; _
10       &amp; &quot;{impersonationLevel=impersonate}!\\&quot; &amp; strComputer &amp; &quot;\root\cimv2&
11
12    Set collip = objWMIService.ExecQuery(&quot;select * from win32_networkadapterconfiguration where IPE
13    dim ipaddrs()
14    ipcount = 0
15    for each ipItem in collip
16        for each ipaddr in ipItem.IPAddress
17            ipcount = ipcount + 1
18        next
19    next
20    redim ipaddrs(ipcount)
21    ipcount = 0
22    for each ipItem in collip
23        for each ipaddr in ipItem.IPAddress
```

```
24          ipcount = ipcount + 1
25          ipaddrs(ipcount) = ipaddr
26      next
27  next
28  localhost = &quot;127.0.0.1&quot;
29
30  Set colItems = objWMIService.ExecQuery(&quot;Select * from Win32_IP4RouteTable&quot;)
31
32  For Each objItem in colItems
33      dest = objItem.Destination
34      gw = objItem.NextHop
35      mask = objItem.Mask
36      metric = objItem.Metric1
37      flags = objItem.Type
38      intf = objItem.InterfaceIndex
39      For i = 0 to ipcount
40          if gw = ipaddrs(i) and gw &lt;&gt; localhost then
41              gw = &quot;0.0.0.0&quot;
42          end if
43      Next
44      if gw &lt;&gt; localhost and dest &lt;&gt; &quot;224.0.0.0&quot; and right(dest,3) &lt;&gt; &quc
45          Wscript.Echo dest &amp; &quot;|&quot; &amp; gw &amp; &quot;|&quot; &amp; mask &amp; &quot;|&
46      end if
47  Next",VBScript,Linux,"route -n | grep -v Kernel | grep -v Destination | awk &#039;{ print $1 &quot;|
48  ",UnixShell,Mac,"netstat -rn | grep -v &quot;:&quot; | grep -v Destination | grep -v Routing | grep
49  ",UnixShell,0,48,0,1,0,Destination,IPAddress,0,1,1,Gateway,IPAddress,0,1,2,Mask,String,0,1,3,Flags,S
50  Network,2014-12-06T18:00:22,",","Current IP Addresses of client machine.
51  Example: 192.168.1.1",1,3209138996,0,147,1,Jim Olsen,600,0,defined,Tanium,2014-12-06T18:00:22,IP Add
52  ifconfig | grep -w inet | grep -v 127.0.0.1 | awk &#039;{print $2}&#039; | sed -e &#039;s/addr://&#0
53  ",UnixShell,Mac,"#!/bin/bash
54
55  ifconfig -a -u |grep &quot;inet&quot; | grep -v &quot;::1&quot; | grep -v &quot;127.0.0.1&quot;| awk
56  ",UnixShell,0,86,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,IPAddress
57  File System,2014-12-06T18:00:23,",","Finds the specified folder and provides the full path if the fo
58  Example: C:\WINDOWS\System32",1,1374547302,0,381,1,Jim Olsen,600,0,defined,McAfee,2014-12-06T18:00:2
59  &#039; Folder Name Search with RegEx Match
60  &#039;========================================
61  &#039;@INCLUDE=utils/SensorRandomization/SensorRandomizationFunctions.vbs
62  Option Explicit
63
64  SensorRandomize()
65
66  Dim Pattern,strRegExp,strGlobalArg,strCaseSensitiveArg
67  Dim bGlobal,bCaseSensitive
68
69  Pattern = unescape(&quot;||dirname||&quot;)
70  strRegExp = Trim(Unescape(&quot;||regexp||&quot;))
71  strGlobalArg = Trim(Unescape(&quot;||global||&quot;))
72  strCaseSensitiveArg = Trim(Unescape(&quot;||casesensitive||&quot;))
73
74  bGlobal = GetTrueFalseArg(&quot;global&quot;,strGlobalArg)
75  bCaseSensitive = GetTrueFalseArg(&quot;casesensitive&quot;,strCaseSensitiveArg)
76
77  Const SYSTEM_FOLDER = 1, TEMP_FOLDER = 2, FOR_READING = 1
78
79  Dim FSO, WshShell, Drives, Drive, TextStream, OutputFilename, strLine
80
81  Set FSO = CreateObject(&quot;Scripting.FileSystemObject&quot;)
```

```
82   Set WshShell = CreateObject(&quot;WScript.Shell&quot;)
83
84   OutputFilename = TempName() &#039; a temporary file in system&#039;s temp dir
85
86   &#039; Go through file system, refresh output file for filename
87   If Not FSO.FileExists(OutputFilename) Then
88
89       If FSO.FileExists(OutputFilename) Then FSO.DeleteFile OutputFilename
90
91       &#039; Get the collection of local drives.
92       Set Drives = FSO.Drives
93       For Each Drive in Drives
94               If Drive.DriveType = 2 Then &#039; 2 = Fixed drive
95                       &#039; Run the Dir command that looks for the filename pattern.
96                       RunCommand &quot;dir &quot; &amp;Chr(34)&amp; Drive.DriveLetter &amp; &quot;:\&q
97               End If
98       Next
99   End If
100
101  &#039; Open the output file, echo each line, and then close and delete it.
102  Set TextStream = FSO.OpenTextFile(OutputFileName, FOR_READING)
103  Do While Not TextStream.AtEndOfStream
104      strLine = TextStream.ReadLine()
105      If RegExpMatch(strRegExp,strLine,bGlobal,bCaseSensitive) Then
106              WScript.Echo strLine
107      End If
108  Loop
109
110
111  TextStream.Close()
112
113  If FSO.FileExists(OutputFileName) Then
114      On Error Resume Next
115      FSO.DeleteFile OutputFileName, True
116      On Error Goto 0
117  End If
118
119  Function RegExpMatch(strPattern,strToMatch,bGlobal,bIsCaseSensitive)
120
121      Dim re
122      Set re = New RegExp
123      With re
124        .Pattern = strPattern
125        .Global = bGlobal
126        .IgnoreCase = Not bIsCaseSensitive
127      End With
128
129      RegExpMatch = re.Test(strToMatch)
130
131  End Function &#039;RegExpMatch
132
133
134  Function GetTrueFalseArg(strArgName,strArgValue)
135      &#039; Checks for valid values, will fail with error message
136
137      Dim bArgVal
138      bArgVal = False
139      Select Case LCase(strArgValue)
```

```
140              Case &quot;true&quot;
141                    bArgVal = True
142              Case &quot;yes&quot;
143                    bArgVal = True
144              Case &quot;false&quot;
145                    bArgVal = False
146              Case &quot;no&quot;
147                    bArgVal = False
148              Case Else
149                    WScript.Echo &quot;Error: Argument &#039;&quot;&amp;strArgName&amp;&quot;&#039;
150                    PrintUsage
151      End Select
152      GetTrueFalseArg = bArgVal
153
154  End Function &#039;GetTrueFalseArg
155
156
157  &#039; Returns the name of a temporary file in the Temp directory.
158  Function TempName()
159      Dim Result
160      Do
161              Result = FSO.BuildPath(FSO.GetSpecialFolder(TEMP_FOLDER), FSO.GetTempName())
162              WScript.Sleep 200 &#039;avoid potential busy loop
163      Loop While FSO.FileExists(Result)
164
165      TempName = Result
166  End Function &#039;TempName
167
168  &#039; Runs a command with Cmd.exe and redirects its output to a temporary
169  &#039; file. The function returns the name of the temporary file that holds
170  &#039; the command&#039;s output.
171  Function RunCommand(Command, OutputFilename, b64BitNecessary)
172      &#039; 64BitNecessary true when you need to examine the 64-bit areas like system32
173      Dim CommandLine,WshShell,strPRogramFilesx86,strDOSCall,objFSO
174      Set objFSO = CreateObject(&quot;Scripting.FileSystemObject&quot;)
175      Set WshShell = CreateObject(&quot;WScript.Shell&quot;)
176
177      strDOSCall = &quot;%ComSpec% /C &quot;
178
179      &#039; if 64-bit OS *and* we must examine in 64-bit mode to avoid FS Redirection
180      strProgramFilesx86=WshShell.ExpandEnvironmentStrings(&quot;%ProgramFiles%&quot;)
181      If objFSO.FolderExists(strProgramFilesx86) And b64BitNecessary Then &#039; quick check for x64
182              strDOSCall = FixFileSystemRedirectionForPath(WshShell.ExpandEnvironmentStrings(strDOSCal
183      End If
184
185      CommandLine = WshShell.ExpandEnvironmentStrings(strDOSCall &amp; Command &amp; &quot; &gt;&gt; &
186      WshShell.Run CommandLine, 0, True
187  End Function &#039;RunCommand
188
189  Function FixFileSystemRedirectionForPath(strFilePath)
190  &#039; This function will fix a folder location so that
191  &#039; a 32-bit program can be passed the windows\system32 directory
192  &#039; as a parameter.
193  &#039; Even if the sensor or action runs in 64-bit mode, a 32-bit
194  &#039; program called in a 64-bit environment cannot access
195  &#039; the system32 directory - it would be redirected to syswow64.
196  &#039; you would not want to do this for 64-bit programs.
197
```

```
198        Dim objFSO, strSystem32Location,objShell
199        Dim strProgramFilesx86,strNewSystem32Location,strRestOfPath
200        Set objFSO = CreateObject(&quot;Scripting.FileSystemObject&quot;)
201        Set objShell = CreateObject(&quot;Wscript.Shell&quot;)
202
203        strProgramFilesx86=objShell.ExpandEnvironmentStrings(&quot;%ProgramFiles%&quot;)
204
205        strFilePath = LCase(strFilePath)
206        strSystem32Location = LCase(objFSO.GetSpecialFolder(1))
207        strProgramFilesx86=objShell.ExpandEnvironmentStrings(&quot;%ProgramFiles(x86)%&quot;)
208
209        If objFSO.FolderExists(strProgramFilesx86) Then &#039; quick check for x64
210                If InStr(strFilePath,strSystem32Location) = 1 Then
211                        strRestOfPath = Replace(strFilePath,strSystem32Location,&quot;&quot;)
212                        strNewSystem32Location = Replace(strSystem32Location,&quot;system32&quot;,&quot;
213                        strFilePath = strNewSystem32Location&amp;strRestOfPath
214                End If
215        End If
216        FixFileSystemRedirectionForPath = strFilePath
217
218        &#039;Cleanup
219        Set objFSO = Nothing
220   End Function &#039;FixFileSystemRedirectionForPath
221   &#039;------------ INCLUDES after this line. Do not edit past this point -----
222   &#039;- Begin file: utils/SensorRandomization/SensorRandomizationFunctions.vbs
223   &#039;&#039; -- Begin Random Sleep Functions -- &#039;&#039;
224
225   Dim bSensorRandomizeDebugOutput : bSensorRandomizeDebugOutput = False
226
227   Function SensorRandomizeLow()
228        Dim intSensorRandomizeWaitLow : intSensorRandomizeWaitLow = 10
229        SensorRandomizeRandomSleep(intSensorRandomizeWaitLow)
230   End Function &#039; SensorRandomizeLow
231
232   Function SensorRandomize()
233        Dim intSensorRandomizeWaitMed : intSensorRandomizeWaitMed = 20
234        SensorRandomizeRandomSleep(intSensorRandomizeWaitMed)
235   End Function &#039; SensorRandomize
236
237   Function SensorRandomizeHigh()
238        Dim intSensorRandomizeWaitHigh : intSensorRandomizeWaitHigh = 30
239        SensorRandomizeRandomSleep(intSensorRandomizeWaitHigh)
240   End Function &#039; SensorRandomize
241
242   Function SensorRandomizeRandomSleep(intSleepTime)
243   &#039; sleeps for a random period of time, intSleepTime is in seconds
244   &#039; if the sensor randomize flag is on
245   &#039; RandomizeScalingFactor is a multiplier on the values hardcoded in the sensor
246   &#039; not typically set but can adjust timings per endpoint, optionally
247        Dim intSensorRandomizeWaitTime
248        Dim objShell,intRandomizeFlag,strRandomizeRegPath,intRandomizeScalingPercentage
249        strRandomizeRegPath = SensorRandomizeGetTaniumRegistryPath&amp;&quot;\Sensor Data\Random Sleep&q
250
251        Set objShell = CreateObject(&quot;WScript.Shell&quot;)
252        On Error Resume Next
253        intRandomizeFlag = objShell.RegRead(&quot;HKLM\&quot;&amp;strRandomizeRegPath&amp;&quot;\SensorR
254        intRandomizeScalingPercentage = objShell.RegRead(&quot;HKLM\&quot;&amp;strRandomizeRegPath&amp;&
255        On Error Goto 0
```

```
256        If intRandomizeFlag > 0 Then
257                If intRandomizeScalingPercentage > 0 Then
258                        intSleepTime = intRandomizeScalingPercentage * .01 * intSleepTime
259                        SensorRandomizeEcho "Randomize scaling percentage of " _
260                                & intRandomizeScalingPercentage & " applied, new sleep time
261                End If
262                intSensorRandomizeWaitTime = CLng(intSleepTime) * 1000 ' convert to milliseconds
263                ' wait random interval between 0 and the max
264                Randomize(SensorRandomizeTaniumRandomSeed)
265                ' assign random value to wait time max value
266                intSensorRandomizeWaitTime = Int( ( intSensorRandomizeWaitTime + 1 ) * Rnd )
267                SensorRandomizeEcho "Sleeping for " & intSensorRandomizeWaitTime & "qu
268                WScript.Sleep(intSensorRandomizeWaitTime)
269                SensorRandomizeEcho "Done sleeping, continuing ..."
270        Else
271                SensorRandomizeEcho "SensorRandomize Not Enabled - No Op"
272        End If
273    End Function 'SensorRandomizeRandomSleep
274
275    Function SensorRandomizeTaniumRandomSeed
276    ' for randomizing sensor code, the default seed is not random enough
277        Dim timerNum
278        timerNum = Timer()
279        If timerNum < 1 Then
280                SensorRandomizeTaniumRandomSeed = (SensorRandomizeGetTaniumComputerID / Timer() * 10 )
281        Else
282                SensorRandomizeTaniumRandomSeed = SensorRandomizeGetTaniumComputerID / Timer
283        End If
284    End Function 'SensorRandomizeTaniumRandomSeed
285
286    Function SensorRandomizeGetTaniumRegistryPath
287    'SensorRandomizeGetTaniumRegistryPath works in x64 or x32
288    'looks for a valid Path value
289
290        Dim objShell
291        Dim keyNativePath, keyWoWPath, strPath, strFoundTaniumRegistryPath
292
293        Set objShell = CreateObject("WScript.Shell")
294
295        keyNativePath = "Software\Tanium\Tanium Client"
296        keyWoWPath = "Software\Wow6432Node\Tanium\Tanium Client"
297
298        ' first check the Software key (valid for 32-bit machines, or 64-bit machines in 32-bit mod
299        On Error Resume Next
300        strPath = objShell.RegRead("HKLM\"&keyNativePath&"\Path")
301        On Error Goto 0
302        strFoundTaniumRegistryPath = keyNativePath
303
304        If strPath = "" Then
305                ' Could not find 32-bit mode path, checking Wow6432Node
306                On Error Resume Next
307                strPath = objShell.RegRead("HKLM\"&keyWoWPath&"\Path")
308                On Error Goto 0
309                strFoundTaniumRegistryPath = keyWoWPath
310        End If
311
312        If Not strPath = "" Then
313                SensorRandomizeGetTaniumRegistryPath = strFoundTaniumRegistryPath
```

```
314        Else
315                SensorRandomizeGetTaniumRegistryPath = False
316                WScript.Echo &quot;Error: Cannot locate Tanium Registry Path&quot;
317        End If
318  End Function &#039;SensorRandomizeGetTaniumRegistryPath
319
320  Function SensorRandomizeGetTaniumComputerID
321  &#039;&#039; This function gets the Tanium Computer ID
322        Dim objShell
323        Dim intClientID,strID,strKeyPath,strValueName
324
325        strKeyPath = SensorRandomizeGetTaniumRegistryPath
326        strValueName = &quot;ComputerID&quot;
327        Set objShell = CreateObject(&quot;WScript.Shell&quot;)
328        On Error Resume Next
329        intClientID = objShell.RegRead(&quot;HKLM\&quot;&amp;strKeyPath&amp;&quot;\&quot;&amp;strValueNa
330        If Err.Number &lt;&gt; 0 Then
331                SensorRandomizeGetTaniumComputerID = 0
332        Else
333                SensorRandomizeGetTaniumComputerID = SensorRandomizeReinterpretSignedAsUnsigned(intClien
334        End If
335        On Error Goto 0
336  End Function &#039;SensorRandomizeGetTaniumComputerID
337
338  Function SensorRandomizeReinterpretSignedAsUnsigned(ByVal x)
339        If x &lt; 0 Then x = x + 2^32
340        SensorRandomizeReinterpretSignedAsUnsigned = x
341  End Function &#039;SensorRandomizeReinterpretSignedAsUnsigned
342
343  Sub SensorRandomizeEcho(str)
344        If bSensorRandomizeDebugOutput = true Then WScript.Echo str
345  End Sub &#039;SensorRandomizeEcho
346  &#039; -- End Random Sleep Functions --&#039;
347  &#039;- End file: utils/SensorRandomization/SensorRandomizationFunctions.vbs",VBScript,Linux,"#!/bin
348  #||dirname||||regexp||||casesensitive||||global||
349  echo Windows Only
350  ",UnixShell,Mac,"#!/bin/bash
351  #||dirname||||regexp||||casesensitive||||global||
352  echo Windows Only
353  ",UnixShell,0,3,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,String
```

Export basetype csv with sort true

Export a BaseType from getting objects as CSV with true for header_sort

Example Python Code

```python
# Path to lib directory which contains pytan package
PYTAN_LIB_PATH = '../lib'

# connection info for Tanium Server
USERNAME = "Tanium User"
PASSWORD = "T@n!um"
HOST = "172.16.31.128"
PORT = "444"
```

```
9
10  # Logging conrols
11  LOGLEVEL = 2
12  DEBUGFORMAT = False
13
14  import sys, tempfile
15  sys.path.append(PYTAN_LIB_PATH)
16
17  import pytan
18  handler = pytan.Handler(
19      username=USERNAME,
20      password=PASSWORD,
21      host=HOST,
22      port=PORT,
23      loglevel=LOGLEVEL,
24      debugformat=DEBUGFORMAT,
25  )
26
27  print handler
28
29  # setup the export_obj kwargs for later
30  export_kwargs = {}
31  export_kwargs["export_format"] = u'csv'
32  export_kwargs["header_sort"] = True
33
34  # get the objects that will provide the basetype that we want to use
35  get_kwargs = {
36      'name': [
37          "Computer Name", "IP Route Details", "IP Address",
38          'Folder Name Search with RegEx Match',
39      ],
40      'objtype': 'sensor',
41  }
42  response = handler.get(**get_kwargs)
43
44  # export the object to a string
45  # (we could just as easily export to a file using export_to_report_file)
46  export_kwargs['obj'] = response
47  export_str = handler.export_obj(**export_kwargs)
48
49
50  print ""
51  print "print the export_str returned from export_obj():"
52  print export_str
```

Output from Python Code

```
1  Handler for Session to 172.16.31.128:444, Authenticated: True, Version: 6.2.314.3258
2
3  print the export_str returned from export_obj():
4  category,creation_time,delimiter,description,exclude_from_parse_flag,hash,hidden_flag,id,ignore_case
5  Reserved,,,"The assigned name of the client machine.
6  Example: workstation-1.company.com",0,3409330187,0,3,1,,86400,,,,,Computer Name,,Windows,select CSNa
7  Network,2014-12-06T18:00:24,|,"Returns IPv4 network routes, filtered to exclude noise. With Flags, M
8  Example:  172.16.0.0|192.168.1.1|255.255.0.0|UG|100|eth0",1,435227963,0,737,1,Jim Olsen,60,0,defined
9  Set objWMIService = GetObject(&quot;winmgmts:&quot; _
10      &amp; &quot;{impersonationLevel=impersonate}!\\&quot; &amp; strComputer &amp; &quot;\root\cimv2&
```

```
11
12  Set collip = objWMIService.ExecQuery(&quot;select * from win32_networkadapterconfiguration where IPE
13  dim ipaddrs()
14  ipcount = 0
15  for each ipItem in collip
16      for each ipaddr in ipItem.IPAddress
17          ipcount = ipcount + 1
18      next
19  next
20  redim ipaddrs(ipcount)
21  ipcount = 0
22  for each ipItem in collip
23      for each ipaddr in ipItem.IPAddress
24          ipcount = ipcount + 1
25          ipaddrs(ipcount) = ipaddr
26      next
27  next
28  localhost = &quot;127.0.0.1&quot;
29
30  Set colItems = objWMIService.ExecQuery(&quot;Select * from Win32_IP4RouteTable&quot;)
31
32  For Each objItem in colItems
33      dest = objItem.Destination
34      gw = objItem.NextHop
35      mask = objItem.Mask
36      metric = objItem.Metric1
37      flags = objItem.Type
38      intf = objItem.InterfaceIndex
39      For i = 0 to ipcount
40          if gw = ipaddrs(i) and gw &lt;&gt; localhost then
41              gw = &quot;0.0.0.0&quot;
42          end if
43      Next
44      if gw &lt;&gt; localhost and dest &lt;&gt; &quot;224.0.0.0&quot; and right(dest,3) &lt;&gt; &quot;qu
45          Wscript.Echo dest &amp; &quot;|&quot; &amp; gw &amp; &quot;|&quot; &amp; mask &amp; &quot;|&
46      end if
47  Next",VBScript,Linux,"route -n | grep -v Kernel | grep -v Destination | awk &#039;{ print $1 &quot;|
48  ",UnixShell,Mac,"netstat -rn | grep -v &quot;:&quot; | grep -v Destination | grep -v Routing | grep
49  ",UnixShell,0,48,0,1,0,Destination,IPAddress,0,1,1,Gateway,IPAddress,0,1,2,Mask,String,0,1,3,Flags,S
50  Network,2014-12-06T18:00:22,",","Current IP Addresses of client machine.
51  Example: 192.168.1.1",1,3209138996,0,147,1,Jim Olsen,600,0,defined,Tanium,2014-12-06T18:00:22,IP Add
52  ifconfig | grep -w inet | grep -v 127.0.0.1 | awk &#039;{print $2}&#039; | sed -e &#039;s/addr://&#0
53  ",UnixShell,Mac,"#!/bin/bash
54
55  ifconfig -a -u |grep &quot;inet&quot; | grep -v &quot;::1&quot; | grep -v &quot;127.0.0.1&quot;| awk
56  ",UnixShell,0,86,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,IPAddress
57  File System,2014-12-06T18:00:23,",","Finds the specified folder and provides the full path if the fo
58  Example: C:\WINDOWS\System32",1,1374547302,0,381,1,Jim Olsen,600,0,defined,McAfee,2014-12-06T18:00:2
59  &#039; Folder Name Search with RegEx Match
60  &#039;=======================================
61  &#039;@INCLUDE=utils/SensorRandomization/SensorRandomizationFunctions.vbs
62  Option Explicit
63
64  SensorRandomize()
65
66  Dim Pattern,strRegExp,strGlobalArg,strCaseSensitiveArg
67  Dim bGlobal,bCaseSensitive
68
```

```
69   Pattern = unescape(&quot;||dirname||&quot;)
70   strRegExp = Trim(Unescape(&quot;||regexp||&quot;))
71   strGlobalArg = Trim(Unescape(&quot;||global||&quot;))
72   strCaseSensitiveArg = Trim(Unescape(&quot;||casesensitive||&quot;))
73
74   bGlobal = GetTrueFalseArg(&quot;global&quot;,strGlobalArg)
75   bCaseSensitive = GetTrueFalseArg(&quot;casesensitive&quot;,strCaseSensitiveArg)
76
77   Const SYSTEM_FOLDER = 1, TEMP_FOLDER = 2, FOR_READING = 1
78
79   Dim FSO, WshShell, Drives, Drive, TextStream, OutputFilename, strLine
80
81   Set FSO = CreateObject(&quot;Scripting.FileSystemObject&quot;)
82   Set WshShell = CreateObject(&quot;WScript.Shell&quot;)
83
84   OutputFilename = TempName() &#039; a temporary file in system&#039;s temp dir
85
86   &#039; Go through file system, refresh output file for filename
87   If Not FSO.FileExists(OutputFilename) Then
88
89       If FSO.FileExists(OutputFilename) Then FSO.DeleteFile OutputFilename
90
91       &#039; Get the collection of local drives.
92       Set Drives = FSO.Drives
93       For Each Drive in Drives
94               If Drive.DriveType = 2 Then &#039; 2 = Fixed drive
95                       &#039; Run the Dir command that looks for the filename pattern.
96                       RunCommand &quot;dir &quot; &amp;Chr(34)&amp; Drive.DriveLetter &amp; &quot;:\&q
97               End If
98       Next
99   End If
100
101  &#039; Open the output file, echo each line, and then close and delete it.
102  Set TextStream = FSO.OpenTextFile(OutputFileName, FOR_READING)
103  Do While Not TextStream.AtEndOfStream
104      strLine = TextStream.ReadLine()
105      If RegExpMatch(strRegExp,strLine,bGlobal,bCaseSensitive) Then
106              WScript.Echo strLine
107      End If
108  Loop
109
110
111  TextStream.Close()
112
113  If FSO.FileExists(OutputFileName) Then
114      On Error Resume Next
115      FSO.DeleteFile OutputFileName, True
116      On Error Goto 0
117  End If
118
119  Function RegExpMatch(strPattern,strToMatch,bGlobal,bIsCaseSensitive)
120
121      Dim re
122      Set re = New RegExp
123      With re
124        .Pattern = strPattern
125        .Global = bGlobal
126        .IgnoreCase = Not bIsCaseSensitive
```

```
127         End With
128
129         RegExpMatch = re.Test(strToMatch)
130
131   End Function &#039;RegExpMatch
132
133
134   Function GetTrueFalseArg(strArgName,strArgValue)
135         &#039; Checks for valid values, will fail with error message
136
137         Dim bArgVal
138         bArgVal = False
139         Select Case LCase(strArgValue)
140                 Case &quot;true&quot;
141                         bArgVal = True
142                 Case &quot;yes&quot;
143                         bArgVal = True
144                 Case &quot;false&quot;
145                         bArgVal = False
146                 Case &quot;no&quot;
147                         bArgVal = False
148                 Case Else
149                         WScript.Echo &quot;Error: Argument &#039;&quot;&amp;strArgName&amp;&quot;&#039;
150                         PrintUsage
151         End Select
152         GetTrueFalseArg = bArgVal
153
154   End Function &#039;GetTrueFalseArg
155
156
157   &#039; Returns the name of a temporary file in the Temp directory.
158   Function TempName()
159         Dim Result
160         Do
161                 Result = FSO.BuildPath(FSO.GetSpecialFolder(TEMP_FOLDER), FSO.GetTempName())
162                 WScript.Sleep 200 &#039;avoid potential busy loop
163         Loop While FSO.FileExists(Result)
164
165         TempName = Result
166   End Function &#039;TempName
167
168   &#039; Runs a command with Cmd.exe and redirects its output to a temporary
169   &#039; file. The function returns the name of the temporary file that holds
170   &#039; the command&#039;s output.
171   Function RunCommand(Command, OutputFilename, b64BitNecessary)
172         &#039; 64BitNecessary true when you need to examine the 64-bit areas like system32
173         Dim CommandLine,WshShell,strPRogramFilesx86,strDOSCall,objFSO
174         Set objFSO = CreateObject(&quot;Scripting.FileSystemObject&quot;)
175         Set WshShell = CreateObject(&quot;WScript.Shell&quot;)
176
177         strDOSCall = &quot;%ComSpec% /C &quot;
178
179         &#039; if 64-bit OS *and* we must examine in 64-bit mode to avoid FS Redirection
180         strProgramFilesx86=WshShell.ExpandEnvironmentStrings(&quot;%ProgramFiles%&quot;)
181         If objFSO.FolderExists(strProgramFilesx86) And b64BitNecessary Then &#039; quick check for x64
182                 strDOSCall = FixFileSystemRedirectionForPath(WshShell.ExpandEnvironmentStrings(strDOSCal
183         End If
184
```

```
185        CommandLine = WshShell.ExpandEnvironmentStrings(strDOSCall &amp; Command &amp; &quot; &gt;&gt; &
186        WshShell.Run CommandLine, 0, True
187   End Function &#039;RunCommand
188
189   Function FixFileSystemRedirectionForPath(strFilePath)
190   &#039; This function will fix a folder location so that
191   &#039; a 32-bit program can be passed the windows\system32 directory
192   &#039; as a parameter.
193   &#039; Even if the sensor or action runs in 64-bit mode, a 32-bit
194   &#039; program called in a 64-bit environment cannot access
195   &#039; the system32 directory - it would be redirected to syswow64.
196   &#039; you would not want to do this for 64-bit programs.
197
198        Dim objFSO, strSystem32Location,objShell
199        Dim strProgramFilesx86,strNewSystem32Location,strRestOfPath
200        Set objFSO = CreateObject(&quot;Scripting.FileSystemObject&quot;)
201        Set objShell = CreateObject(&quot;Wscript.Shell&quot;)
202
203        strProgramFilesx86=objShell.ExpandEnvironmentStrings(&quot;%ProgramFiles%&quot;)
204
205        strFilePath = LCase(strFilePath)
206        strSystem32Location = LCase(objFSO.GetSpecialFolder(1))
207        strProgramFilesx86=objShell.ExpandEnvironmentStrings(&quot;%ProgramFiles(x86)%&quot;)
208
209        If objFSO.FolderExists(strProgramFilesx86) Then &#039; quick check for x64
210                If InStr(strFilePath,strSystem32Location) = 1 Then
211                        strRestOfPath = Replace(strFilePath,strSystem32Location,&quot;&quot;)
212                        strNewSystem32Location = Replace(strSystem32Location,&quot;system32&quot;,&quot;
213                        strFilePath = strNewSystem32Location&amp;strRestOfPath
214                End If
215        End If
216        FixFileSystemRedirectionForPath = strFilePath
217
218        &#039;Cleanup
219        Set objFSO = Nothing
220   End Function &#039;FixFileSystemRedirectionForPath
221   &#039;------------ INCLUDES after this line. Do not edit past this point -----
222   &#039;- Begin file: utils/SensorRandomization/SensorRandomizationFunctions.vbs
223   &#039;&#039; -- Begin Random Sleep Functions -- &#039;&#039;
224
225   Dim bSensorRandomizeDebugOutput : bSensorRandomizeDebugOutput = False
226
227   Function SensorRandomizeLow()
228        Dim intSensorRandomizeWaitLow : intSensorRandomizeWaitLow = 10
229        SensorRandomizeRandomSleep(intSensorRandomizeWaitLow)
230   End Function &#039; SensorRandomizeLow
231
232   Function SensorRandomize()
233        Dim intSensorRandomizeWaitMed : intSensorRandomizeWaitMed = 20
234        SensorRandomizeRandomSleep(intSensorRandomizeWaitMed)
235   End Function &#039; SensorRandomize
236
237   Function SensorRandomizeHigh()
238        Dim intSensorRandomizeWaitHigh : intSensorRandomizeWaitHigh = 30
239        SensorRandomizeRandomSleep(intSensorRandomizeWaitHigh)
240   End Function &#039; SensorRandomize
241
242   Function SensorRandomizeRandomSleep(intSleepTime)
```

```
243   ' sleeps for a random period of time, intSleepTime is in seconds
244   ' if the sensor randomize flag is on
245   ' RandomizeScalingFactor is a multiplier on the values hardcoded in the sensor
246   ' not typically set but can adjust timings per endpoint, optionally
247       Dim intSensorRandomizeWaitTime
248       Dim objShell,intRandomizeFlag,strRandomizeRegPath,intRandomizeScalingPercentage
249       strRandomizeRegPath = SensorRandomizeGetTaniumRegistryPath&"\Sensor Data\Random Sleep&q
250
251       Set objShell = CreateObject("WScript.Shell")
252       On Error Resume Next
253       intRandomizeFlag = objShell.RegRead("HKLM\"&strRandomizeRegPath&"\SensorR
254       intRandomizeScalingPercentage = objShell.RegRead("HKLM\"&strRandomizeRegPath&&
255       On Error Goto 0
256       If intRandomizeFlag > 0 Then
257               If intRandomizeScalingPercentage > 0 Then
258                       intSleepTime = intRandomizeScalingPercentage * .01 * intSleepTime
259                       SensorRandomizeEcho "Randomize scaling percentage of " _
260                           & intRandomizeScalingPercentage & " applied, new sleep time
261               End If
262               intSensorRandomizeWaitTime = CLng(intSleepTime) * 1000 ' convert to milliseconds
263               ' wait random interval between 0 and the max
264               Randomize(SensorRandomizeTaniumRandomSeed)
265               ' assign random value to wait time max value
266               intSensorRandomizeWaitTime = Int( ( intSensorRandomizeWaitTime + 1 ) * Rnd )
267               SensorRandomizeEcho "Sleeping for " & intSensorRandomizeWaitTime & "qu
268               WScript.Sleep(intSensorRandomizeWaitTime)
269               SensorRandomizeEcho "Done sleeping, continuing ..."
270       Else
271               SensorRandomizeEcho "SensorRandomize Not Enabled - No Op"
272       End If
273   End Function 'SensorRandomizeRandomSleep
274
275   Function SensorRandomizeTaniumRandomSeed
276   ' for randomizing sensor code, the default seed is not random enough
277       Dim timerNum
278       timerNum = Timer()
279       If timerNum < 1 Then
280               SensorRandomizeTaniumRandomSeed = (SensorRandomizeGetTaniumComputerID / Timer() * 10 )
281       Else
282               SensorRandomizeTaniumRandomSeed = SensorRandomizeGetTaniumComputerID / Timer
283       End If
284   End Function 'SensorRandomizeTaniumRandomSeed
285
286   Function SensorRandomizeGetTaniumRegistryPath
287   'SensorRandomizeGetTaniumRegistryPath works in x64 or x32
288   'looks for a valid Path value
289
290       Dim objShell
291       Dim keyNativePath, keyWoWPath, strPath, strFoundTaniumRegistryPath
292
293       Set objShell = CreateObject("WScript.Shell")
294
295       keyNativePath = "Software\Tanium\Tanium Client"
296       keyWoWPath = "Software\Wow6432Node\Tanium\Tanium Client"
297
298       ' first check the Software key (valid for 32-bit machines, or 64-bit machines in 32-bit mod
299       On Error Resume Next
300       strPath = objShell.RegRead("HKLM\"&keyNativePath&"\Path")
```

```
301         On Error Goto 0
302         strFoundTaniumRegistryPath = keyNativePath
303
304         If strPath = &quot;&quot; Then
305                 &#039; Could not find 32-bit mode path, checking Wow6432Node
306                 On Error Resume Next
307                 strPath = objShell.RegRead(&quot;HKLM\&quot;&amp;keyWoWPath&amp;&quot;\Path&quot;)
308                 On Error Goto 0
309                 strFoundTaniumRegistryPath = keyWoWPath
310         End If
311
312         If Not strPath = &quot;&quot; Then
313                 SensorRandomizeGetTaniumRegistryPath = strFoundTaniumRegistryPath
314         Else
315                 SensorRandomizeGetTaniumRegistryPath = False
316                 WScript.Echo &quot;Error: Cannot locate Tanium Registry Path&quot;
317         End If
318   End Function &#039;SensorRandomizeGetTaniumRegistryPath
319
320   Function SensorRandomizeGetTaniumComputerID
321   &#039;&#039; This function gets the Tanium Computer ID
322         Dim objShell
323         Dim intClientID,strID,strKeyPath,strValueName
324
325         strKeyPath = SensorRandomizeGetTaniumRegistryPath
326         strValueName = &quot;ComputerID&quot;
327         Set objShell = CreateObject(&quot;WScript.Shell&quot;)
328         On Error Resume Next
329         intClientID = objShell.RegRead(&quot;HKLM\&quot;&amp;strKeyPath&amp;&quot;\&quot;&amp;strValueNa
330         If Err.Number &lt;&gt; 0 Then
331                 SensorRandomizeGetTaniumComputerID = 0
332         Else
333                 SensorRandomizeGetTaniumComputerID = SensorRandomizeReinterpretSignedAsUnsigned(intClien
334         End If
335         On Error Goto 0
336   End Function &#039;SensorRandomizeGetTaniumComputerID
337
338   Function SensorRandomizeReinterpretSignedAsUnsigned(ByVal x)
339           If x &lt; 0 Then x = x + 2^32
340           SensorRandomizeReinterpretSignedAsUnsigned = x
341   End Function &#039;SensorRandomizeReinterpretSignedAsUnsigned
342
343   Sub SensorRandomizeEcho(str)
344         If bSensorRandomizeDebugOutput = true Then WScript.Echo str
345   End Sub &#039;SensorRandomizeEcho
346   &#039; -- End Random Sleep Functions --&#039;
347   &#039;- End file: utils/SensorRandomization/SensorRandomizationFunctions.vbs",VBScript,Linux,"#!/bin
348   #||dirname||||regexp||||casesensitive||||global||
349   echo Windows Only
350   ",UnixShell,Mac,"#!/bin/bash
351   #||dirname||||regexp||||casesensitive||||global||
352   echo Windows Only
353   ",UnixShell,0,3,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,String
```

Export basetype csv with sort list

Export a BaseType from getting objects as CSV with name and description for header_sort

Example Python Code

```python
# Path to lib directory which contains pytan package
PYTAN_LIB_PATH = '../lib'

# connection info for Tanium Server
USERNAME = "Tanium User"
PASSWORD = "T@n!um"
HOST = "172.16.31.128"
PORT = "444"

# Logging conrols
LOGLEVEL = 2
DEBUGFORMAT = False

import sys, tempfile
sys.path.append(PYTAN_LIB_PATH)

import pytan
handler = pytan.Handler(
    username=USERNAME,
    password=PASSWORD,
    host=HOST,
    port=PORT,
    loglevel=LOGLEVEL,
    debugformat=DEBUGFORMAT,
)

print handler

# setup the export_obj kwargs for later
export_kwargs = {}
export_kwargs["export_format"] = u'csv'
export_kwargs["header_sort"] = [u'name', u'description']

# get the objects that will provide the basetype that we want to use
get_kwargs = {
    'name': [
        "Computer Name", "IP Route Details", "IP Address",
        'Folder Name Search with RegEx Match',
    ],
    'objtype': 'sensor',
}
response = handler.get(**get_kwargs)

# export the object to a string
# (we could just as easily export to a file using export_to_report_file)
export_kwargs['obj'] = response
export_str = handler.export_obj(**export_kwargs)


print ""
print "print the export_str returned from export_obj():"
```

```
52    print export_str
```

Output from Python Code

```
1    Handler for Session to 172.16.31.128:444, Authenticated: True, Version: 6.2.314.3258
2
3    print the export_str returned from export_obj():
4    name,description,category,creation_time,delimiter,exclude_from_parse_flag,hash,hidden_flag,id,ignore
5    Computer Name,"The assigned name of the client machine.
6    Example: workstation-1.company.com",Reserved,,,0,3409330187,0,3,1,,86400,,,,,Windows,select CSName
7    IP Route Details,"Returns IPv4 network routes, filtered to exclude noise. With Flags, Metric, Interf
8    Example:  172.16.0.0|192.168.1.1|255.255.0.0|UG|100|eth0",Network,2014-12-06T18:00:24,|,1,435227963,
9    Set objWMIService = GetObject(&quot;winmgmts:&quot; _
10       &amp; &quot;{impersonationLevel=impersonate}!\\&quot; &amp; strComputer &amp; &quot;\root\cimv2&
11
12   Set collip = objWMIService.ExecQuery(&quot;select * from win32_networkadapterconfiguration where IPE
13   dim ipaddrs()
14   ipcount = 0
15   for each ipItem in collip
16       for each ipaddr in ipItem.IPAddress
17           ipcount = ipcount + 1
18       next
19   next
20   redim ipaddrs(ipcount)
21   ipcount = 0
22   for each ipItem in collip
23       for each ipaddr in ipItem.IPAddress
24           ipcount = ipcount + 1
25           ipaddrs(ipcount) = ipaddr
26       next
27   next
28   localhost = &quot;127.0.0.1&quot;
29
30   Set colItems = objWMIService.ExecQuery(&quot;Select * from Win32_IP4RouteTable&quot;)
31
32   For Each objItem in colItems
33       dest = objItem.Destination
34       gw = objItem.NextHop
35       mask = objItem.Mask
36       metric = objItem.Metric1
37       flags = objItem.Type
38       intf = objItem.InterfaceIndex
39       For i = 0 to ipcount
40           if gw = ipaddrs(i) and gw &lt;&gt; localhost then
41               gw = &quot;0.0.0.0&quot;
42           end if
43       Next
44       if gw &lt;&gt; localhost and dest &lt;&gt; &quot;224.0.0.0&quot; and right(dest,3) &lt;&gt; &quo
45           Wscript.Echo dest &amp; &quot;|&quot; &amp; gw &amp; &quot;|&quot; &amp; mask &amp; &quot;|&
46       end if
47   Next",VBScript,Linux,"route -n | grep -v Kernel | grep -v Destination | awk &#039;{ print $1 &quot;|
48   ",UnixShell,Mac,"netstat -rn | grep -v &quot;:&quot; | grep -v Destination | grep -v Routing | grep
49   ",UnixShell,0,48,0,1,0,Destination,IPAddress,0,1,1,Gateway,IPAddress,0,1,2,Mask,String,0,1,3,Flags,S
50   IP Address,"Current IP Addresses of client machine.
51   Example: 192.168.1.1",Network,2014-12-06T18:00:22,",",1,3209138996,0,147,1,Jim Olsen,600,0,defined,T
52   ifconfig | grep -w inet | grep -v 127.0.0.1 | awk &#039;{print $2}&#039; | sed -e &#039;s/addr://&#0
53   ",UnixShell,Mac,"#!/bin/bash
```

```
54
55  ifconfig -a -u |grep &quot;inet&quot; | grep -v &quot;::1&quot; | grep -v &quot;127.0.0.1&quot;| awk
56  ",UnixShell,0,86,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,IPAddress
57  Folder Name Search with RegEx Match,"Finds the specified folder and provides the full path if the fo
58  Example: C:\WINDOWS\System32",File System,2014-12-06T18:00:23,",",1,1374547302,0,381,1,Jim Olsen,600
59  &#039; Folder Name Search with RegEx Match
60  &#039;======================================
61  &#039;@INCLUDE=utils/SensorRandomization/SensorRandomizationFunctions.vbs
62  Option Explicit
63
64  SensorRandomize()
65
66  Dim Pattern,strRegExp,strGlobalArg,strCaseSensitiveArg
67  Dim bGlobal,bCaseSensitive
68
69  Pattern = unescape(&quot;||dirname||&quot;)
70  strRegExp = Trim(Unescape(&quot;||regexp||&quot;))
71  strGlobalArg = Trim(Unescape(&quot;||global||&quot;))
72  strCaseSensitiveArg = Trim(Unescape(&quot;||casesensitive||&quot;))
73
74  bGlobal = GetTrueFalseArg(&quot;global&quot;,strGlobalArg)
75  bCaseSensitive = GetTrueFalseArg(&quot;casesensitive&quot;,strCaseSensitiveArg)
76
77  Const SYSTEM_FOLDER = 1, TEMP_FOLDER = 2, FOR_READING = 1
78
79  Dim FSO, WshShell, Drives, Drive, TextStream, OutputFilename, strLine
80
81  Set FSO = CreateObject(&quot;Scripting.FileSystemObject&quot;)
82  Set WshShell = CreateObject(&quot;WScript.Shell&quot;)
83
84  OutputFilename = TempName() &#039; a temporary file in system&#039;s temp dir
85
86  &#039; Go through file system, refresh output file for filename
87  If Not FSO.FileExists(OutputFilename) Then
88
89      If FSO.FileExists(OutputFilename) Then FSO.DeleteFile OutputFilename
90
91      &#039; Get the collection of local drives.
92      Set Drives = FSO.Drives
93      For Each Drive in Drives
94              If Drive.DriveType = 2 Then &#039; 2 = Fixed drive
95                      &#039; Run the Dir command that looks for the filename pattern.
96                      RunCommand &quot;dir &quot; &amp;Chr(34)&amp; Drive.DriveLetter &amp; &quot;:\&q
97              End If
98      Next
99  End If
100
101  &#039; Open the output file, echo each line, and then close and delete it.
102  Set TextStream = FSO.OpenTextFile(OutputFileName, FOR_READING)
103  Do While Not TextStream.AtEndOfStream
104      strLine = TextStream.ReadLine()
105      If RegExpMatch(strRegExp,strLine,bGlobal,bCaseSensitive) Then
106              WScript.Echo strLine
107      End If
108  Loop
109
110
111  TextStream.Close()
```

```
112
113   If FSO.FileExists(OutputFileName) Then
114       On Error Resume Next
115       FSO.DeleteFile OutputFileName, True
116       On Error Goto 0
117   End If
118
119   Function RegExpMatch(strPattern,strToMatch,bGlobal,bIsCaseSensitive)
120
121       Dim re
122       Set re = New RegExp
123       With re
124         .Pattern = strPattern
125         .Global = bGlobal
126         .IgnoreCase = Not bIsCaseSensitive
127       End With
128
129       RegExpMatch = re.Test(strToMatch)
130
131   End Function &#039;RegExpMatch
132
133
134   Function GetTrueFalseArg(strArgName,strArgValue)
135       &#039; Checks for valid values, will fail with error message
136
137       Dim bArgVal
138       bArgVal = False
139       Select Case LCase(strArgValue)
140             Case &quot;true&quot;
141                   bArgVal = True
142             Case &quot;yes&quot;
143                   bArgVal = True
144             Case &quot;false&quot;
145                   bArgVal = False
146             Case &quot;no&quot;
147                   bArgVal = False
148             Case Else
149                   WScript.Echo &quot;Error: Argument &#039;&quot;&amp;strArgName&amp;&quot;&#039;
150                   PrintUsage
151       End Select
152       GetTrueFalseArg = bArgVal
153
154   End Function &#039;GetTrueFalseArg
155
156
157   &#039; Returns the name of a temporary file in the Temp directory.
158   Function TempName()
159       Dim Result
160       Do
161             Result = FSO.BuildPath(FSO.GetSpecialFolder(TEMP_FOLDER), FSO.GetTempName())
162             WScript.Sleep 200 &#039;avoid potential busy loop
163       Loop While FSO.FileExists(Result)
164
165       TempName = Result
166   End Function &#039;TempName
167
168   &#039; Runs a command with Cmd.exe and redirects its output to a temporary
169   &#039; file. The function returns the name of the temporary file that holds
```

```
170   &#039; the command&#039;s output.
171   Function RunCommand(Command, OutputFilename, b64BitNecessary)
172       &#039; 64BitNecessary true when you need to examine the 64-bit areas like system32
173       Dim CommandLine,WshShell,strPRogramFilesx86,strDOSCall,objFSO
174       Set objFSO = CreateObject(&quot;Scripting.FileSystemObject&quot;)
175       Set WshShell = CreateObject(&quot;WScript.Shell&quot;)
176
177       strDOSCall = &quot;%ComSpec% /C &quot;
178
179       &#039; if 64-bit OS *and* we must examine in 64-bit mode to avoid FS Redirection
180       strProgramFilesx86=WshShell.ExpandEnvironmentStrings(&quot;%ProgramFiles%&quot;)
181       If objFSO.FolderExists(strProgramFilesx86) And b64BitNecessary Then &#039; quick check for x64
182               strDOSCall = FixFileSystemRedirectionForPath(WshShell.ExpandEnvironmentStrings(strDOSCall
183       End If
184
185       CommandLine = WshShell.ExpandEnvironmentStrings(strDOSCall &amp; Command &amp; &quot; &gt;&gt; &
186       WshShell.Run CommandLine, 0, True
187   End Function &#039;RunCommand
188
189   Function FixFileSystemRedirectionForPath(strFilePath)
190   &#039; This function will fix a folder location so that
191   &#039; a 32-bit program can be passed the windows\system32 directory
192   &#039; as a parameter.
193   &#039; Even if the sensor or action runs in 64-bit mode, a 32-bit
194   &#039; program called in a 64-bit environment cannot access
195   &#039; the system32 directory - it would be redirected to syswow64.
196   &#039; you would not want to do this for 64-bit programs.
197
198       Dim objFSO, strSystem32Location,objShell
199       Dim strProgramFilesx86,strNewSystem32Location,strRestOfPath
200       Set objFSO = CreateObject(&quot;Scripting.FileSystemObject&quot;)
201       Set objShell = CreateObject(&quot;Wscript.Shell&quot;)
202
203       strProgramFilesx86=objShell.ExpandEnvironmentStrings(&quot;%ProgramFiles%&quot;)
204
205       strFilePath = LCase(strFilePath)
206       strSystem32Location = LCase(objFSO.GetSpecialFolder(1))
207       strProgramFilesx86=objShell.ExpandEnvironmentStrings(&quot;%ProgramFiles(x86)%&quot;)
208
209       If objFSO.FolderExists(strProgramFilesx86) Then &#039; quick check for x64
210               If InStr(strFilePath,strSystem32Location) = 1 Then
211                       strRestOfPath = Replace(strFilePath,strSystem32Location,&quot;&quot;)
212                       strNewSystem32Location = Replace(strSystem32Location,&quot;system32&quot;,&quot;
213                       strFilePath = strNewSystem32Location&amp;strRestOfPath
214               End If
215       End If
216       FixFileSystemRedirectionForPath = strFilePath
217
218       &#039;Cleanup
219       Set objFSO = Nothing
220   End Function &#039;FixFileSystemRedirectionForPath
221   &#039;------------ INCLUDES after this line. Do not edit past this point -----
222   &#039;- Begin file: utils/SensorRandomization/SensorRandomizationFunctions.vbs
223   &#039;&#039; -- Begin Random Sleep Functions -- &#039;&#039;
224
225   Dim bSensorRandomizeDebugOutput : bSensorRandomizeDebugOutput = False
226
227   Function SensorRandomizeLow()
```

```
228       Dim intSensorRandomizeWaitLow : intSensorRandomizeWaitLow = 10
229       SensorRandomizeRandomSleep(intSensorRandomizeWaitLow)
230   End Function &#039; SensorRandomizeLow
231
232   Function SensorRandomize()
233       Dim intSensorRandomizeWaitMed : intSensorRandomizeWaitMed = 20
234       SensorRandomizeRandomSleep(intSensorRandomizeWaitMed)
235   End Function &#039; SensorRandomize
236
237   Function SensorRandomizeHigh()
238       Dim intSensorRandomizeWaitHigh : intSensorRandomizeWaitHigh = 30
239       SensorRandomizeRandomSleep(intSensorRandomizeWaitHigh)
240   End Function &#039; SensorRandomize
241
242   Function SensorRandomizeRandomSleep(intSleepTime)
243   &#039; sleeps for a random period of time, intSleepTime is in seconds
244   &#039; if the sensor randomize flag is on
245   &#039; RandomizeScalingFactor is a multiplier on the values hardcoded in the sensor
246   &#039; not typically set but can adjust timings per endpoint, optionally
247       Dim intSensorRandomizeWaitTime
248       Dim objShell,intRandomizeFlag,strRandomizeRegPath,intRandomizeScalingPercentage
249       strRandomizeRegPath = SensorRandomizeGetTaniumRegistryPath&amp;&quot;\Sensor Data\Random Sleep&q
250
251       Set objShell = CreateObject(&quot;WScript.Shell&quot;)
252       On Error Resume Next
253       intRandomizeFlag = objShell.RegRead(&quot;HKLM\&quot;&amp;strRandomizeRegPath&amp;&quot;\SensorR
254       intRandomizeScalingPercentage = objShell.RegRead(&quot;HKLM\&quot;&amp;strRandomizeRegPath&amp;&
255       On Error Goto 0
256       If intRandomizeFlag &gt; 0 Then
257               If intRandomizeScalingPercentage &gt; 0 Then
258                       intSleepTime = intRandomizeScalingPercentage * .01 * intSleepTime
259                       SensorRandomizeEcho &quot;Randomize scaling percentage of &quot; _
260                           &amp; intRandomizeScalingPercentage &amp; &quot; applied, new sleep time
261               End If
262               intSensorRandomizeWaitTime = CLng(intSleepTime) * 1000 &#039; convert to milliseconds
263               &#039; wait random interval between 0 and the max
264               Randomize(SensorRandomizeTaniumRandomSeed)
265               &#039; assign random value to wait time max value
266               intSensorRandomizeWaitTime = Int( ( intSensorRandomizeWaitTime + 1 ) * Rnd )
267               SensorRandomizeEcho &quot;Sleeping for &quot; &amp; intSensorRandomizeWaitTime &amp; &qu
268               WScript.Sleep(intSensorRandomizeWaitTime)
269               SensorRandomizeEcho &quot;Done sleeping, continuing ...&quot;
270       Else
271               SensorRandomizeEcho &quot;SensorRandomize Not Enabled - No Op&quot;
272       End If
273   End Function &#039;SensorRandomizeRandomSleep
274
275   Function SensorRandomizeTaniumRandomSeed
276   &#039; for randomizing sensor code, the default seed is not random enough
277       Dim timerNum
278       timerNum = Timer()
279       If timerNum &lt; 1 Then
280               SensorRandomizeTaniumRandomSeed = (SensorRandomizeGetTaniumComputerID / Timer() * 10 )
281       Else
282               SensorRandomizeTaniumRandomSeed = SensorRandomizeGetTaniumComputerID / Timer
283       End If
284   End Function &#039;SensorRandomizeTaniumRandomSeed
285
```

```
286   Function SensorRandomizeGetTaniumRegistryPath
287   'SensorRandomizeGetTaniumRegistryPath works in x64 or x32
288   'looks for a valid Path value
289
290       Dim objShell
291       Dim keyNativePath, keyWoWPath, strPath, strFoundTaniumRegistryPath
292
293       Set objShell = CreateObject("WScript.Shell")
294
295       keyNativePath = "Software\Tanium\Tanium Client"
296       keyWoWPath = "Software\Wow6432Node\Tanium\Tanium Client"
297
298       ' first check the Software key (valid for 32-bit machines, or 64-bit machines in 32-bit mod
299       On Error Resume Next
300       strPath = objShell.RegRead("HKLM\"&keyNativePath&"\Path")
301       On Error Goto 0
302       strFoundTaniumRegistryPath = keyNativePath
303
304       If strPath = "" Then
305               ' Could not find 32-bit mode path, checking Wow6432Node
306               On Error Resume Next
307               strPath = objShell.RegRead("HKLM\"&keyWoWPath&"\Path")
308               On Error Goto 0
309               strFoundTaniumRegistryPath = keyWoWPath
310       End If
311
312       If Not strPath = "" Then
313               SensorRandomizeGetTaniumRegistryPath = strFoundTaniumRegistryPath
314       Else
315               SensorRandomizeGetTaniumRegistryPath = False
316               WScript.Echo "Error: Cannot locate Tanium Registry Path"
317       End If
318   End Function 'SensorRandomizeGetTaniumRegistryPath
319
320   Function SensorRandomizeGetTaniumComputerID
321   '' This function gets the Tanium Computer ID
322       Dim objShell
323       Dim intClientID,strID,strKeyPath,strValueName
324
325       strKeyPath = SensorRandomizeGetTaniumRegistryPath
326       strValueName = "ComputerID"
327       Set objShell = CreateObject("WScript.Shell")
328       On Error Resume Next
329       intClientID = objShell.RegRead("HKLM\"&strKeyPath&"\"&strValueNa
330       If Err.Number <> 0 Then
331               SensorRandomizeGetTaniumComputerID = 0
332       Else
333               SensorRandomizeGetTaniumComputerID = SensorRandomizeReinterpretSignedAsUnsigned(intClien
334       End If
335       On Error Goto 0
336   End Function 'SensorRandomizeGetTaniumComputerID
337
338   Function SensorRandomizeReinterpretSignedAsUnsigned(ByVal x)
339       If x < 0 Then x = x + 2^32
340       SensorRandomizeReinterpretSignedAsUnsigned = x
341   End Function 'SensorRandomizeReinterpretSignedAsUnsigned
342
343   Sub SensorRandomizeEcho(str)
```

```
344         If bSensorRandomizeDebugOutput = true Then WScript.Echo str
345     End Sub &#039;SensorRandomizeEcho
346     &#039; -- End Random Sleep Functions --&#039;
347     &#039;- End file: utils/SensorRandomization/SensorRandomizationFunctions.vbs",VBScript,Linux,"#!/bin
348     #||dirname||||regexp||||casesensitive||||global||
349     echo Windows Only
350     ",UnixShell,Mac,"#!/bin/bash
351     #||dirname||||regexp||||casesensitive||||global||
352     echo Windows Only
353     ",UnixShell,0,3,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,String
```

Export basetype json default options

Export a BaseType from getting objects as JSON with the default options

Example Python Code

```python
1    # Path to lib directory which contains pytan package
2    PYTAN_LIB_PATH = '../lib'
3
4    # connection info for Tanium Server
5    USERNAME = "Tanium User"
6    PASSWORD = "T@n!um"
7    HOST = "172.16.31.128"
8    PORT = "444"
9
10   # Logging conrols
11   LOGLEVEL = 2
12   DEBUGFORMAT = False
13
14   import sys, tempfile
15   sys.path.append(PYTAN_LIB_PATH)
16
17   import pytan
18   handler = pytan.Handler(
19       username=USERNAME,
20       password=PASSWORD,
21       host=HOST,
22       port=PORT,
23       loglevel=LOGLEVEL,
24       debugformat=DEBUGFORMAT,
25   )
26
27   print handler
28
29   # setup the export_obj kwargs for later
30   export_kwargs = {}
31   export_kwargs["export_format"] = u'json'
32
33   # get the objects that will provide the basetype that we want to use
34   get_kwargs = {
35       'name': [
36           "Computer Name", "IP Route Details", "IP Address",
37           'Folder Name Search with RegEx Match',
38       ],
```

```
39        'objtype': 'sensor',
40    }
41    response = handler.get(**get_kwargs)
42
43    # export the object to a string
44    # (we could just as easily export to a file using export_to_report_file)
45    export_kwargs['obj'] = response
46    export_str = handler.export_obj(**export_kwargs)
47
48
49    print ""
50    print "print the export_str returned from export_obj():"
51    print export_str
```

Output from Python Code

```
1    Handler for Session to 172.16.31.128:444, Authenticated: True, Version: 6.2.314.3258
2
3    print the export_str returned from export_obj():
4    {
5      "_type": "sensors",
6      "sensor": [
7        {
8          "_type": "sensor",
9          "category": "Reserved",
10         "description": "The assigned name of the client machine.\nExample: workstation-1.company.com",
11         "exclude_from_parse_flag": 0,
12         "hash": 3409330187,
13         "hidden_flag": 0,
14         "id": 3,
15         "ignore_case_flag": 1,
16         "max_age_seconds": 86400,
17         "name": "Computer Name",
18         "queries": {
19           "_type": "queries",
20           "query": [
21             {
22               "_type": "query",
23               "platform": "Windows",
24               "script": "select CSName from win32_operatingsystem",
25               "script_type": "WMIQuery"
26             }
27           ]
28         },
29         "source_id": 0,
30         "string_count": 7,
31         "value_type": "String"
32       },
33       {
34         "_type": "sensor",
35         "category": "Network",
36         "creation_time": "2014-12-06T18:00:24",
37         "delimiter": "|",
38         "description": "Returns IPv4 network routes, filtered to exclude noise. With Flags, Metric, In
39         "exclude_from_parse_flag": 1,
40         "hash": 435227963,
41         "hidden_flag": 0,
```

```
42          "id": 737,
43          "ignore_case_flag": 1,
44          "last_modified_by": "Jim Olsen",
45          "max_age_seconds": 60,
46          "metadata": {
47            "_type": "metadata",
48            "item": [
49              {
50                "_type": "item",
51                "admin_flag": 0,
52                "name": "defined",
53                "value": "Tanium"
54              }
55            ]
56          },
57          "modification_time": "2014-12-06T18:00:24",
58          "name": "IP Route Details",
59          "queries": {
60            "_type": "queries",
61            "query": [
62              {
63                "_type": "query",
64                "platform": "Windows",
65                "script": "strComputer = &quot;.&quot;\nSet objWMIService = GetObject(&quot;winmgmts:&qu
66                "script_type": "VBScript"
67              },
68              {
69                "_type": "query",
70                "platform": "Linux",
71                "script": "route -n | grep -v Kernel | grep -v Destination | awk &#039;{ print $1 &quot;
72                "script_type": "UnixShell"
73              },
74              {
75                "_type": "query",
76                "platform": "Mac",
77                "script": "netstat -rn | grep -v &quot;:&quot; | grep -v Destination | grep -v Routing |
78                "script_type": "UnixShell"
79              }
80            ]
81          },
82          "source_id": 0,
83          "string_count": 48,
84          "subcolumns": {
85            "_type": "subcolumns",
86            "subcolumn": [
87              {
88                "_type": "subcolumn",
89                "hidden_flag": 0,
90                "ignore_case_flag": 1,
91                "index": 0,
92                "name": "Destination",
93                "value_type": "IPAddress"
94              },
95              {
96                "_type": "subcolumn",
97                "hidden_flag": 0,
98                "ignore_case_flag": 1,
99                "index": 1,
```

```
100            "name": "Gateway",
101            "value_type": "IPAddress"
102          },
103          {
104            "_type": "subcolumn",
105            "hidden_flag": 0,
106            "ignore_case_flag": 1,
107            "index": 2,
108            "name": "Mask",
109            "value_type": "String"
110          },
111          {
112            "_type": "subcolumn",
113            "hidden_flag": 0,
114            "ignore_case_flag": 1,
115            "index": 3,
116            "name": "Flags",
117            "value_type": "String"
118          },
119          {
120            "_type": "subcolumn",
121            "hidden_flag": 0,
122            "ignore_case_flag": 1,
123            "index": 4,
124            "name": "Metric",
125            "value_type": "NumericInteger"
126          },
127          {
128            "_type": "subcolumn",
129            "hidden_flag": 0,
130            "ignore_case_flag": 1,
131            "index": 5,
132            "name": "Interface",
133            "value_type": "String"
134          }
135        ]
136      },
137      "value_type": "String"
138    },
139    {
140      "_type": "sensor",
141      "category": "Network",
142      "creation_time": "2014-12-06T18:00:22",
143      "delimiter": ",",
144      "description": "Current IP Addresses of client machine.\nExample: 192.168.1.1",
145      "exclude_from_parse_flag": 1,
146      "hash": 3209138996,
147      "hidden_flag": 0,
148      "id": 147,
149      "ignore_case_flag": 1,
150      "last_modified_by": "Jim Olsen",
151      "max_age_seconds": 600,
152      "metadata": {
153        "_type": "metadata",
154        "item": [
155          {
156            "_type": "item",
157            "admin_flag": 0,
```

```
158                "name": "defined",
159                "value": "Tanium"
160              }
161            ]
162          },
163          "modification_time": "2014-12-06T18:00:22",
164          "name": "IP Address",
165          "queries": {
166            "_type": "queries",
167            "query": [
168              {
169                "_type": "query",
170                "platform": "Windows",
171                "script": "select IPAddress from win32_networkadapterconfiguration where IPEnabled=&#039
172                "script_type": "WMIQuery"
173              },
174              {
175                "_type": "query",
176                "platform": "Linux",
177                "script": "#!/bin/bash\nifconfig | grep -w inet | grep -v 127.0.0.1 | awk &#039;{print $
178                "script_type": "UnixShell"
179              },
180              {
181                "_type": "query",
182                "platform": "Mac",
183                "script": "#!/bin/bash\n\nifconfig -a -u |grep &quot;inet&quot; | grep -v &quot;::1&quot
184                "script_type": "UnixShell"
185              }
186            ]
187          },
188          "source_id": 0,
189          "string_count": 86,
190          "value_type": "IPAddress"
191        },
192        {
193          "_type": "sensor",
194          "category": "File System",
195          "creation_time": "2014-12-06T18:00:23",
196          "delimiter": ",",
197          "description": "Finds the specified folder and provides the full path if the folder exists on
198          "exclude_from_parse_flag": 1,
199          "hash": 1374547302,
200          "hidden_flag": 0,
201          "id": 381,
202          "ignore_case_flag": 1,
203          "last_modified_by": "Jim Olsen",
204          "max_age_seconds": 600,
205          "metadata": {
206            "_type": "metadata",
207            "item": [
208              {
209                "_type": "item",
210                "admin_flag": 0,
211                "name": "defined",
212                "value": "McAfee"
213              }
214            ]
215          },
```

```
216          "modification_time": "2014-12-06T18:00:23",
217          "name": "Folder Name Search with RegEx Match",
218          "parameter_definition": "{\"parameters\":[{\"restrict\":null,\"validationExpressions\":[{\"fla
219          "queries": {
220            "_type": "queries",
221            "query": [
222              {
223                "_type": "query",
224                "platform": "Windows",
225                "script": "&#039;=======================================\n&#039; Folder Name Search wit
226                "script_type": "VBScript"
227              },
228              {
229                "_type": "query",
230                "platform": "Linux",
231                "script": "#!/bin/bash\n#||dirname||||regexp||||casesensitive||||global||\necho Windows
232                "script_type": "UnixShell"
233              },
234              {
235                "_type": "query",
236                "platform": "Mac",
237                "script": "#!/bin/bash\n#||dirname||||regexp||||casesensitive||||global||\necho Windows
238                "script_type": "UnixShell"
239              }
240            ]
241          },
242          "source_id": 0,
243          "string_count": 3,
244          "value_type": "String"
245        }
246      ]
247  }
```

Export basetype json type true

Export a BaseType from getting objects as JSON with true for include_type

Example Python Code

```python
1   # Path to lib directory which contains pytan package
2   PYTAN_LIB_PATH = '../lib'
3
4   # connection info for Tanium Server
5   USERNAME = "Tanium User"
6   PASSWORD = "T@n!um"
7   HOST = "172.16.31.128"
8   PORT = "444"
9
10  # Logging conrols
11  LOGLEVEL = 2
12  DEBUGFORMAT = False
13
14  import sys, tempfile
15  sys.path.append(PYTAN_LIB_PATH)
16
```

```python
17  import pytan
18  handler = pytan.Handler(
19      username=USERNAME,
20      password=PASSWORD,
21      host=HOST,
22      port=PORT,
23      loglevel=LOGLEVEL,
24      debugformat=DEBUGFORMAT,
25  )
26
27  print handler
28
29  # setup the export_obj kwargs for later
30  export_kwargs = {}
31  export_kwargs["export_format"] = u'json'
32  export_kwargs["include_type"] = True
33
34  # get the objects that will provide the basetype that we want to use
35  get_kwargs = {
36      'name': [
37          "Computer Name", "IP Route Details", "IP Address",
38          'Folder Name Search with RegEx Match',
39      ],
40      'objtype': 'sensor',
41  }
42  response = handler.get(**get_kwargs)
43
44  # export the object to a string
45  # (we could just as easily export to a file using export_to_report_file)
46  export_kwargs['obj'] = response
47  export_str = handler.export_obj(**export_kwargs)
48
49
50  print ""
51  print "print the export_str returned from export_obj():"
52  print export_str
```

Output from Python Code

```
1   Handler for Session to 172.16.31.128:444, Authenticated: True, Version: 6.2.314.3258
2
3   print the export_str returned from export_obj():
4   {
5     "_type": "sensors",
6     "sensor": [
7       {
8         "_type": "sensor",
9         "category": "Reserved",
10        "description": "The assigned name of the client machine.\nExample: workstation-1.company.com",
11        "exclude_from_parse_flag": 0,
12        "hash": 3409330187,
13        "hidden_flag": 0,
14        "id": 3,
15        "ignore_case_flag": 1,
16        "max_age_seconds": 86400,
17        "name": "Computer Name",
18        "queries": {
```

```
19              "_type": "queries",
20              "query": [
21                {
22                  "_type": "query",
23                  "platform": "Windows",
24                  "script": "select CSName from win32_operatingsystem",
25                  "script_type": "WMIQuery"
26                }
27              ]
28            },
29            "source_id": 0,
30            "string_count": 7,
31            "value_type": "String"
32          },
33          {
34            "_type": "sensor",
35            "category": "Network",
36            "creation_time": "2014-12-06T18:00:24",
37            "delimiter": "|",
38            "description": "Returns IPv4 network routes, filtered to exclude noise. With Flags, Metric, In
39            "exclude_from_parse_flag": 1,
40            "hash": 435227963,
41            "hidden_flag": 0,
42            "id": 737,
43            "ignore_case_flag": 1,
44            "last_modified_by": "Jim Olsen",
45            "max_age_seconds": 60,
46            "metadata": {
47              "_type": "metadata",
48              "item": [
49                {
50                  "_type": "item",
51                  "admin_flag": 0,
52                  "name": "defined",
53                  "value": "Tanium"
54                }
55              ]
56            },
57            "modification_time": "2014-12-06T18:00:24",
58            "name": "IP Route Details",
59            "queries": {
60              "_type": "queries",
61              "query": [
62                {
63                  "_type": "query",
64                  "platform": "Windows",
65                  "script": "strComputer = &quot;.&quot;\nSet objWMIService = GetObject(&quot;winmgmts:&qu
66                  "script_type": "VBScript"
67                },
68                {
69                  "_type": "query",
70                  "platform": "Linux",
71                  "script": "route -n | grep -v Kernel | grep -v Destination | awk &#039;{ print $1 &quot;
72                  "script_type": "UnixShell"
73                },
74                {
75                  "_type": "query",
76                  "platform": "Mac",
```

```
77          "script": "netstat -rn | grep -v &quot;:&quot; | grep -v Destination | grep -v Routing |
78          "script_type": "UnixShell"
79        }
80      ]
81    },
82    "source_id": 0,
83    "string_count": 48,
84    "subcolumns": {
85      "_type": "subcolumns",
86      "subcolumn": [
87        {
88          "_type": "subcolumn",
89          "hidden_flag": 0,
90          "ignore_case_flag": 1,
91          "index": 0,
92          "name": "Destination",
93          "value_type": "IPAddress"
94        },
95        {
96          "_type": "subcolumn",
97          "hidden_flag": 0,
98          "ignore_case_flag": 1,
99          "index": 1,
100         "name": "Gateway",
101         "value_type": "IPAddress"
102       },
103       {
104         "_type": "subcolumn",
105         "hidden_flag": 0,
106         "ignore_case_flag": 1,
107         "index": 2,
108         "name": "Mask",
109         "value_type": "String"
110       },
111       {
112         "_type": "subcolumn",
113         "hidden_flag": 0,
114         "ignore_case_flag": 1,
115         "index": 3,
116         "name": "Flags",
117         "value_type": "String"
118       },
119       {
120         "_type": "subcolumn",
121         "hidden_flag": 0,
122         "ignore_case_flag": 1,
123         "index": 4,
124         "name": "Metric",
125         "value_type": "NumericInteger"
126       },
127       {
128         "_type": "subcolumn",
129         "hidden_flag": 0,
130         "ignore_case_flag": 1,
131         "index": 5,
132         "name": "Interface",
133         "value_type": "String"
134       }
```

```
135              ]
136          },
137          "value_type": "String"
138      },
139      {
140          "_type": "sensor",
141          "category": "Network",
142          "creation_time": "2014-12-06T18:00:22",
143          "delimiter": ",",
144          "description": "Current IP Addresses of client machine.\nExample: 192.168.1.1",
145          "exclude_from_parse_flag": 1,
146          "hash": 3209138996,
147          "hidden_flag": 0,
148          "id": 147,
149          "ignore_case_flag": 1,
150          "last_modified_by": "Jim Olsen",
151          "max_age_seconds": 600,
152          "metadata": {
153              "_type": "metadata",
154              "item": [
155                  {
156                      "_type": "item",
157                      "admin_flag": 0,
158                      "name": "defined",
159                      "value": "Tanium"
160                  }
161              ]
162          },
163          "modification_time": "2014-12-06T18:00:22",
164          "name": "IP Address",
165          "queries": {
166              "_type": "queries",
167              "query": [
168                  {
169                      "_type": "query",
170                      "platform": "Windows",
171                      "script": "select IPAddress from win32_networkadapterconfiguration where IPEnabled=&#039
172                      "script_type": "WMIQuery"
173                  },
174                  {
175                      "_type": "query",
176                      "platform": "Linux",
177                      "script": "#!/bin/bash\nifconfig | grep -w inet | grep -v 127.0.0.1 | awk &#039;{print $
178                      "script_type": "UnixShell"
179                  },
180                  {
181                      "_type": "query",
182                      "platform": "Mac",
183                      "script": "#!/bin/bash\n\nifconfig -a -u |grep &quot;inet&quot; | grep -v &quot;::1&quot
184                      "script_type": "UnixShell"
185                  }
186              ]
187          },
188          "source_id": 0,
189          "string_count": 86,
190          "value_type": "IPAddress"
191      },
192      {
```

```
193          "_type": "sensor",
194          "category": "File System",
195          "creation_time": "2014-12-06T18:00:23",
196          "delimiter": ",",
197          "description": "Finds the specified folder and provides the full path if the folder exists on
198          "exclude_from_parse_flag": 1,
199          "hash": 1374547302,
200          "hidden_flag": 0,
201          "id": 381,
202          "ignore_case_flag": 1,
203          "last_modified_by": "Jim Olsen",
204          "max_age_seconds": 600,
205          "metadata": {
206            "_type": "metadata",
207            "item": [
208              {
209                "_type": "item",
210                "admin_flag": 0,
211                "name": "defined",
212                "value": "McAfee"
213              }
214            ]
215          },
216          "modification_time": "2014-12-06T18:00:23",
217          "name": "Folder Name Search with RegEx Match",
218          "parameter_definition": "{\"parameters\":[{\"restrict\":null,\"validationExpressions\":[{\"fla
219          "queries": {
220            "_type": "queries",
221            "query": [
222              {
223                "_type": "query",
224                "platform": "Windows",
225                "script": "&#039;========================================\n&#039; Folder Name Search wit
226                "script_type": "VBScript"
227              },
228              {
229                "_type": "query",
230                "platform": "Linux",
231                "script": "#!/bin/bash\n#||dirname||||regexp||||casesensitive||||global||\necho Windows
232                "script_type": "UnixShell"
233              },
234              {
235                "_type": "query",
236                "platform": "Mac",
237                "script": "#!/bin/bash\n#||dirname||||regexp||||casesensitive||||global||\necho Windows
238                "script_type": "UnixShell"
239              }
240            ]
241          },
242          "source_id": 0,
243          "string_count": 3,
244          "value_type": "String"
245        }
246      ]
247    }
```

pytan API Invalid Export BaseType Examples

Invalid export basetype csv bad explode type

Export a BaseType from getting objects using a bad explode_json_string_values

Example Python Code

```python
# Path to lib directory which contains pytan package
PYTAN_LIB_PATH = '../lib'

# connection info for Tanium Server
USERNAME = "Tanium User"
PASSWORD = "T@n!um"
HOST = "172.16.31.128"
PORT = "444"

# Logging conrols
LOGLEVEL = 2
DEBUGFORMAT = False

import sys, tempfile
sys.path.append(PYTAN_LIB_PATH)

import pytan
handler = pytan.Handler(
    username=USERNAME,
    password=PASSWORD,
    host=HOST,
    port=PORT,
    loglevel=LOGLEVEL,
    debugformat=DEBUGFORMAT,
)

print handler

# setup the export_obj kwargs for later
export_kwargs = {}
export_kwargs["export_format"] = u'csv'
export_kwargs["explode_json_string_values"] = u'bad'

# get the objects that will provide the basetype that we want to use
get_kwargs = {
    'name': [
        "Computer Name", "IP Route Details", "IP Address",
        'Folder Name Search with RegEx Match',
    ],
    'objtype': 'sensor',
}
response = handler.get(**get_kwargs)
export_kwargs['obj'] = response

# export the object to a string
# this should throw an exception: pytan.utils.HandlerError
import traceback

try:
```

```
50      handler.export_obj(**export_kwargs)
51  except Exception as e:
52      traceback.print_exc(file=sys.stdout)
```

Output from Python Code

```
1  Handler for Session to 172.16.31.128:444, Authenticated: True, Version: 6.2.314.3258
2  Traceback (most recent call last):
3    File "<string>", line 50, in <module>
4    File "/Users/jolsen/gh/pytan/lib/pytan/handler.py", line 1339, in export_obj
5      utils.check_dictkey(**check_args)
6    File "/Users/jolsen/gh/pytan/lib/pytan/utils.py", line 2433, in check_dictkey
7      raise HandlerError(err(key, valid_types, k_type))
8  HandlerError: 'explode_json_string_values' must be one of [<type 'bool'>], you supplied <type 'unico
```

Invalid export basetype csv bad sort sub type

Export a BaseType from getting objects using a bad header_sort

Example Python Code

```python
1   # Path to lib directory which contains pytan package
2   PYTAN_LIB_PATH = '../lib'
3
4   # connection info for Tanium Server
5   USERNAME = "Tanium User"
6   PASSWORD = "T@n!um"
7   HOST = "172.16.31.128"
8   PORT = "444"
9
10  # Logging conrols
11  LOGLEVEL = 2
12  DEBUGFORMAT = False
13
14  import sys, tempfile
15  sys.path.append(PYTAN_LIB_PATH)
16
17  import pytan
18  handler = pytan.Handler(
19      username=USERNAME,
20      password=PASSWORD,
21      host=HOST,
22      port=PORT,
23      loglevel=LOGLEVEL,
24      debugformat=DEBUGFORMAT,
25  )
26
27  print handler
28
29  # setup the export_obj kwargs for later
30  export_kwargs = {}
31  export_kwargs["export_format"] = u'csv'
32  export_kwargs["header_sort"] = [[]]
33
```

```
34   # get the objects that will provide the basetype that we want to use
35   get_kwargs = {
36       'name': [
37           "Computer Name", "IP Route Details", "IP Address",
38           'Folder Name Search with RegEx Match',
39       ],
40       'objtype': 'sensor',
41   }
42   response = handler.get(**get_kwargs)
43   export_kwargs['obj'] = response
44
45   # export the object to a string
46   # this should throw an exception: pytan.utils.HandlerError
47   import traceback
48
49   try:
50       handler.export_obj(**export_kwargs)
51   except Exception as e:
52       traceback.print_exc(file=sys.stdout)
```

Output from Python Code

```
1   Handler for Session to 172.16.31.128:444, Authenticated: True, Version: 6.2.314.3258
2   Traceback (most recent call last):
3     File "<string>", line 50, in <module>
4     File "/Users/jolsen/gh/pytan/lib/pytan/handler.py", line 1339, in export_obj
5       utils.check_dictkey(**check_args)
6     File "/Users/jolsen/gh/pytan/lib/pytan/utils.py", line 2440, in check_dictkey
7       raise HandlerError(err(key, valid_list_types, list_types))
8   HandlerError: 'header_sort' must be a list of [<type 'str'>, <type 'unicode'>], you supplied [<type
```

Invalid export basetype csv bad sort type

Export a BaseType from getting objects using a bad header_sort

Example Python Code

```
1   # Path to lib directory which contains pytan package
2   PYTAN_LIB_PATH = '../lib'
3
4   # connection info for Tanium Server
5   USERNAME = "Tanium User"
6   PASSWORD = "T@n!um"
7   HOST = "172.16.31.128"
8   PORT = "444"
9
10  # Logging conrols
11  LOGLEVEL = 2
12  DEBUGFORMAT = False
13
14  import sys, tempfile
15  sys.path.append(PYTAN_LIB_PATH)
16
17  import pytan
```

```
18   handler = pytan.Handler(
19       username=USERNAME,
20       password=PASSWORD,
21       host=HOST,
22       port=PORT,
23       loglevel=LOGLEVEL,
24       debugformat=DEBUGFORMAT,
25   )
26
27   print handler
28
29   # setup the export_obj kwargs for later
30   export_kwargs = {}
31   export_kwargs["export_format"] = u'csv'
32   export_kwargs["header_sort"] = u'bad'
33
34   # get the objects that will provide the basetype that we want to use
35   get_kwargs = {
36       'name': [
37           "Computer Name", "IP Route Details", "IP Address",
38           'Folder Name Search with RegEx Match',
39       ],
40       'objtype': 'sensor',
41   }
42   response = handler.get(**get_kwargs)
43   export_kwargs['obj'] = response
44
45   # export the object to a string
46   # this should throw an exception: pytan.utils.HandlerError
47   import traceback
48
49   try:
50       handler.export_obj(**export_kwargs)
51   except Exception as e:
52       traceback.print_exc(file=sys.stdout)
```

Output from Python Code

```
1   Handler for Session to 172.16.31.128:444, Authenticated: True, Version: 6.2.314.3258
2   Traceback (most recent call last):
3     File "<string>", line 50, in <module>
4     File "/Users/jolsen/gh/pytan/lib/pytan/handler.py", line 1339, in export_obj
5       utils.check_dictkey(**check_args)
6     File "/Users/jolsen/gh/pytan/lib/pytan/utils.py", line 2433, in check_dictkey
7       raise HandlerError(err(key, valid_types, k_type))
8   HandlerError: 'header_sort' must be one of [<type 'bool'>, <type 'list'>, <type 'tuple'>], you suppl
```

Invalid export basetype xml bad minimal type

Export a BaseType from getting objects using a bad minimal

Example Python Code

```python
1   # Path to lib directory which contains pytan package
2   PYTAN_LIB_PATH = '../lib'
3
4   # connection info for Tanium Server
5   USERNAME = "Tanium User"
6   PASSWORD = "T@n!um"
7   HOST = "172.16.31.128"
8   PORT = "444"
9
10  # Logging conrols
11  LOGLEVEL = 2
12  DEBUGFORMAT = False
13
14  import sys, tempfile
15  sys.path.append(PYTAN_LIB_PATH)
16
17  import pytan
18  handler = pytan.Handler(
19      username=USERNAME,
20      password=PASSWORD,
21      host=HOST,
22      port=PORT,
23      loglevel=LOGLEVEL,
24      debugformat=DEBUGFORMAT,
25  )
26
27  print handler
28
29  # setup the export_obj kwargs for later
30  export_kwargs = {}
31  export_kwargs["export_format"] = u'xml'
32  export_kwargs["minimal"] = u'bad'
33
34  # get the objects that will provide the basetype that we want to use
35  get_kwargs = {
36      'name': [
37          "Computer Name", "IP Route Details", "IP Address",
38          'Folder Name Search with RegEx Match',
39      ],
40      'objtype': 'sensor',
41  }
42  response = handler.get(**get_kwargs)
43  export_kwargs['obj'] = response
44
45  # export the object to a string
46  # this should throw an exception: pytan.utils.HandlerError
47  import traceback
48
49  try:
50      handler.export_obj(**export_kwargs)
51  except Exception as e:
52      traceback.print_exc(file=sys.stdout)
```

Output from Python Code

```
1  Handler for Session to 172.16.31.128:444, Authenticated: True, Version: 6.2.314.3258
2  Traceback (most recent call last):
3    File "<string>", line 50, in <module>
4    File "/Users/jolsen/gh/pytan/lib/pytan/handler.py", line 1339, in export_obj
5      utils.check_dictkey(**check_args)
6    File "/Users/jolsen/gh/pytan/lib/pytan/utils.py", line 2433, in check_dictkey
7      raise HandlerError(err(key, valid_types, k_type))
8  HandlerError: 'minimal' must be one of [<type 'bool'>], you supplied <type 'unicode'>!
```

Invalid export basetype json bad include type

Export a BaseType from getting objects using a bad include_type

Example Python Code

```python
1   # Path to lib directory which contains pytan package
2   PYTAN_LIB_PATH = '../lib'
3
4   # connection info for Tanium Server
5   USERNAME = "Tanium User"
6   PASSWORD = "T@n!um"
7   HOST = "172.16.31.128"
8   PORT = "444"
9
10  # Logging conrols
11  LOGLEVEL = 2
12  DEBUGFORMAT = False
13
14  import sys, tempfile
15  sys.path.append(PYTAN_LIB_PATH)
16
17  import pytan
18  handler = pytan.Handler(
19      username=USERNAME,
20      password=PASSWORD,
21      host=HOST,
22      port=PORT,
23      loglevel=LOGLEVEL,
24      debugformat=DEBUGFORMAT,
25  )
26
27  print handler
28
29  # setup the export_obj kwargs for later
30  export_kwargs = {}
31  export_kwargs["export_format"] = u'json'
32  export_kwargs["include_type"] = u'bad'
33
34  # get the objects that will provide the basetype that we want to use
35  get_kwargs = {
36      'name': [
37          "Computer Name", "IP Route Details", "IP Address",
38          'Folder Name Search with RegEx Match',
39      ],
40      'objtype': 'sensor',
```

```
41  }
42  response = handler.get(**get_kwargs)
43  export_kwargs['obj'] = response
44
45  # export the object to a string
46  # this should throw an exception: pytan.utils.HandlerError
47  import traceback
48
49  try:
50      handler.export_obj(**export_kwargs)
51  except Exception as e:
52      traceback.print_exc(file=sys.stdout)
```

Output from Python Code

```
1  Handler for Session to 172.16.31.128:444, Authenticated: True, Version: 6.2.314.3258
2  Traceback (most recent call last):
3    File "<string>", line 50, in <module>
4    File "/Users/jolsen/gh/pytan/lib/pytan/handler.py", line 1339, in export_obj
5      utils.check_dictkey(**check_args)
6    File "/Users/jolsen/gh/pytan/lib/pytan/utils.py", line 2433, in check_dictkey
7      raise HandlerError(err(key, valid_types, k_type))
8  HandlerError: 'include_type' must be one of [<type 'bool'>], you supplied <type 'unicode'>!
```

Invalid export basetype json bad explode type

Export a BaseType from getting objects using a bad explode_json_string_values

Example Python Code

```
1  # Path to lib directory which contains pytan package
2  PYTAN_LIB_PATH = '../lib'
3
4  # connection info for Tanium Server
5  USERNAME = "Tanium User"
6  PASSWORD = "T@n!um"
7  HOST = "172.16.31.128"
8  PORT = "444"
9
10  # Logging conrols
11  LOGLEVEL = 2
12  DEBUGFORMAT = False
13
14  import sys, tempfile
15  sys.path.append(PYTAN_LIB_PATH)
16
17  import pytan
18  handler = pytan.Handler(
19      username=USERNAME,
20      password=PASSWORD,
21      host=HOST,
22      port=PORT,
23      loglevel=LOGLEVEL,
24      debugformat=DEBUGFORMAT,
```

```
25  )
26
27  print handler
28
29  # setup the export_obj kwargs for later
30  export_kwargs = {}
31  export_kwargs["export_format"] = u'json'
32  export_kwargs["explode_json_string_values"] = u'bad'
33
34  # get the objects that will provide the basetype that we want to use
35  get_kwargs = {
36      'name': [
37          "Computer Name", "IP Route Details", "IP Address",
38          'Folder Name Search with RegEx Match',
39      ],
40      'objtype': 'sensor',
41  }
42  response = handler.get(**get_kwargs)
43  export_kwargs['obj'] = response
44
45  # export the object to a string
46  # this should throw an exception: pytan.utils.HandlerError
47  import traceback
48
49  try:
50      handler.export_obj(**export_kwargs)
51  except Exception as e:
52      traceback.print_exc(file=sys.stdout)
```

Output from Python Code

```
1  Handler for Session to 172.16.31.128:444, Authenticated: True, Version: 6.2.314.3258
2  Traceback (most recent call last):
3    File "<string>", line 50, in <module>
4    File "/Users/jolsen/gh/pytan/lib/pytan/handler.py", line 1339, in export_obj
5      utils.check_dictkey(**check_args)
6    File "/Users/jolsen/gh/pytan/lib/pytan/utils.py", line 2433, in check_dictkey
7      raise HandlerError(err(key, valid_types, k_type))
8  HandlerError: 'explode_json_string_values' must be one of [<type 'bool'>], you supplied <type 'unico
```

Invalid export basetype bad format

Export a BaseType from getting objects using a bad export_format

Example Python Code

```
1  # Path to lib directory which contains pytan package
2  PYTAN_LIB_PATH = '../lib'
3
4  # connection info for Tanium Server
5  USERNAME = "Tanium User"
6  PASSWORD = "T@n!um"
7  HOST = "172.16.31.128"
8  PORT = "444"
```

```
9
10   # Logging conrols
11   LOGLEVEL = 2
12   DEBUGFORMAT = False
13
14   import sys, tempfile
15   sys.path.append(PYTAN_LIB_PATH)
16
17   import pytan
18   handler = pytan.Handler(
19       username=USERNAME,
20       password=PASSWORD,
21       host=HOST,
22       port=PORT,
23       loglevel=LOGLEVEL,
24       debugformat=DEBUGFORMAT,
25   )
26
27   print handler
28
29   # setup the export_obj kwargs for later
30   export_kwargs = {}
31   export_kwargs["export_format"] = u'bad'
32
33   # get the objects that will provide the basetype that we want to use
34   get_kwargs = {
35       'name': [
36           "Computer Name", "IP Route Details", "IP Address",
37           'Folder Name Search with RegEx Match',
38       ],
39       'objtype': 'sensor',
40   }
41   response = handler.get(**get_kwargs)
42   export_kwargs['obj'] = response
43
44   # export the object to a string
45   # this should throw an exception: pytan.utils.HandlerError
46   import traceback
47
48   try:
49       handler.export_obj(**export_kwargs)
50   except Exception as e:
51       traceback.print_exc(file=sys.stdout)
```

Output from Python Code

```
1   Handler for Session to 172.16.31.128:444, Authenticated: True, Version: 6.2.314.3258
2   Traceback (most recent call last):
3     File "<string>", line 49, in <module>
4     File "/Users/jolsen/gh/pytan/lib/pytan/handler.py", line 1333, in export_obj
5       raise HandlerError(err)
6   HandlerError: u'bad' not a supported export format for SensorList, must be one of: xml, json, csv
```

1.6.2 pytan.handler module

The main `pytan` module that provides methods for programmatic use.

Handler Class

class `pytan.handler.`**`Handler`**(*username*, *password*, *host*, *port='444'*, *loglevel=0*, *debugformat=False*,
                                               **kwargs)

    Bases: `object`

    Creates a connection to a Tanium SOAP Server on host:port

        Parameters username : str

            username to connect to *host* with

        password : str

            password to connect to *host* with

        host : str

            hostname or ip of Tanium SOAP Server

        port : int, optional

            port of Tanium SOAP Server on *host*

        loglevel : int, optional

            0 should not print anything, 1 and higher will print more

        debugformat : bool, optional

            False use one line logformat, True use two lines

    See also:

    `pytan.constants.LOG_LEVEL_MAPS` maps a given *loglevel* to respective logger names and their logger
        levels

    `pytan.constants.INFO_FORMAT` debugformat=False

    `pytan.constants.DEBUG_FORMAT` debugformat=True

Notes

        • port 444 is the default SOAP port

        • port 443 forwards /soap/ URLs to the SOAP port

        • Use port 444 if you have direct access to it

Example: Create a Handler object

Setup a Handler() object:

```
>>> import sys
>>> sys.path.append('/path/to/pytan/')
>>> import pytan
>>> handler = pytan.Handler('username', 'password', 'host')
```

Handler Methods: Questions and Actions

Ask a Question

Handler.**ask**(***kwargs*)

> Ask a type of question and get the results back

>> **Parameters qtype** : str
>>
>>> type of question to ask: saved_question, manual, or manual_human
>>
>> **Returns result** : dict, containing:
>>
>>> - *question_object* : one of the following depending on *qtype*: `taniumpy.object_types.question.Question` or `taniumpy.object_types.saved_question.SavedQuestion`
>>>
>>> - *question_results* : `taniumpy.object_types.result_set.ResultSet`

> See also:

> `pytan.constants.Q_OBJ_MAP` maps qtype to a method in Handler()

Ask a Saved Question

Handler.**ask_saved**(***kwargs*)

> Ask a saved question and get the results back

>> **Parameters id** : int, list of int, optional
>>
>>> id of saved question to ask
>>
>>> **name** : str, list of str
>>
>>> name of saved question
>>
>> **Returns ret** : dict, containing
>>
>>> - *question_object* : `taniumpy.object_types.saved_question.SavedQuestion`
>>>
>>> - *question_results* : `taniumpy.object_types.result_set.ResultSet`

> See also:

> `pytan.constants.ASK_KWARGS` list of kwargs that can be passed to `taniumpy.question_asker.QuestionAsker`

> **Notes**

> id or name must be supplied

Asking a Manual Question

Handler.**ask_manual**(*get_results=True*, ***kwargs*)

> Ask a manual question using definitions and get the results back

This method requires in-depth knowledge of how filters and options are created in the API, and as such is not meant for human consumption. Use ask_manual_human() instead.

> **Parameters sensor_defs** : str, dict, list of str or dict
>
> > sensor definitions
>
> **question_filter_defs** : dict, list of dict, optional
>
> > question filter definitions
>
> **question_option_defs** : dict, list of dict, optional
>
> > question option definitions
>
> **get_results** : bool, optional
>
> > - True: wait for result completion after asking question
> > - False: just ask the question and return it in *ret*
>
> **Returns ret** : dict, containing:
>
> > - *question_object* : taniumpy.object_types.question.Question
> > - *question_results* : taniumpy.object_types.result_set.ResultSet

See also:

pytan.constants.FILTER_MAPS valid filter dictionaries for filters

pytan.constants.OPTION_MAPS valid option dictionaries for options

pytan.constants.ASK_KWARGS list of kwargs that can be passed to taniumpy.question_asker.QuestionAsker

Examples

```
>>> # example of str for sensor_defs
>>> sensor_defs = 'Sensor1'
```

```
>>> # example of dict for sensor_defs
>>> sensor_defs = {
... 'name': 'Sensor1',
...     'filter': {
...         'operator': 'RegexMatch',
...         'not_flag': 0,
...         'value': '.*'
...     },
...     'params': {'key': 'value'},
...     'options': {'and_flag': 1}
... }
```

```
>>> # example of dict for question_filter_defs
>>> question_filter_defs = {
...     'operator': 'RegexMatch',
```

```
...        'not_flag': 0,
...        'value': '.*'
... }
```

Handler.**ask_manual_human**(***kwargs*)

> Ask a manual question using human strings and get the results back
>
> This method takes a string or list of strings and parses them into their corresponding definitions needed by `ask_manual()`
>
> > **Parameters sensors** : str, list of str
> >
> > > sensors (columns) to include in question
> >
> > **question_filters** : str, list of str, optional
> >
> > > filters that apply to the whole question
> >
> > **question_options** : str, list of str, optional
> >
> > > options that apply to the whole question
> >
> > **get_results** : bool, optional
> >
> > > • True: wait for result completion after asking question
> > >
> > > • False: just ask the question and return it in result
> >
> > **sensors_help** : bool, optional
> >
> > > • False: do not print the help string for sensors
> > >
> > > • True: print the help string for sensors and exit
> >
> > **filters_help** : bool, optional
> >
> > > • False: do not print the help string for filters
> > >
> > > • True: print the help string for filters and exit
> >
> > **options_help** : bool, optional
> >
> > > • False: do not print the help string for options
> > >
> > > • True: print the help string for options and exit
> >
> > **Returns result** : dict, containing:
> >
> > > • *question_object* : `taniumpy.object_types.question.Question`
> > >
> > > • *question_results* : `taniumpy.object_types.result_set.ResultSet`
>
> See also:
>
> `pytan.constants.FILTER_MAPS` valid filter dictionaries for filters
>
> `pytan.constants.OPTION_MAPS` valid option dictionaries for options
>
> `pytan.constants.ASK_KWARGS` list of kwargs that can be passed to `taniumpy.question_asker.QuestionAsker`
>
> **Examples**

```
>>> # example of str for `sensors`
>>> sensors = 'Sensor1'
```

```
>>> # example of str for `sensors` with params
>>> sensors = 'Sensor1{key:value}'
```

```
>>> # example of str for `sensors` with params and filter
>>> sensors = 'Sensor1{key:value}, that contains:example text'
```

```
>>> # example of str for `sensors` with params and filter and options
>>> sensors = (
...     'Sensor1{key:value}, that contains:example text,'
...     'opt:ignore_case, opt:max_data_age:60'
... )
```

```
>>> # example of str for question_filters
>>> question_filters = 'Sensor2, that contains:example test'
```

```
>>> # example of list of str for question_options
>>> question_options = ['max_data_age:3600', 'and']
```

Deploy an Action

Handler.**deploy_action**(*run=False*, *get_results=True*, ***kwargs*)

Deploy an action and get the results back

This method requires in-depth knowledge of how filters and options are created in the API, and as such is not meant for human consumption. Use deploy_action_human() instead.

> **Parameters package_def** : dict
>
>> definition that describes a package
>
> **action_filter_defs** : str, dict, list of str or dict, optional
>
>> action filter definitions
>
> **action_option_defs** : dict, list of dict, optional
>
>> action filter option definitions
>
> **start_seconds_from_now** : int, optional
>
>> start action N seconds from now
>
> **expire_seconds** : int, optional
>
>> expire action N seconds from now, will be derived from package if not supplied
>
> **run** : bool, optional
>
>> • False: just ask the question that pertains to verify action, export the results to CSV, and raise RunFalse – does not deploy the action
>>
>> • True: actually deploy the action
>
> **get_results** : bool, optional

- True: wait for result completion after deploying action

- False: just deploy the action and return the object in *ret*

Returns ret : dict, containing:

- *action_object* : `taniumpy.object_types.action.Action`

- *action_results* : `taniumpy.object_types.result_set.ResultSet`

- *action_progress_human* : str, progress map in human form

- *action_progress_map* : dict, progress map in dictionary form

- *pre_action_question_results* : `taniumpy.object_types.result_set.ResultSet`

See also:

`pytan.constants.FILTER_MAPS` valid filter dictionaries for filters

`pytan.constants.OPTION_MAPS` valid option dictionaries for options

Examples

```
>>> # example of dict for `package_def`
>>> package_def = {'name': 'PackageName1', 'params':{'param1': 'value1'}}
```

```
>>> # example of str for `action_filter_defs`
>>> action_filter_defs = 'Sensor1'
```

```
>>> # example of dict for `action_filter_defs`
>>> action_filter_defs = {
... 'name': 'Sensor1',
...     'filter': {
...         'operator': 'RegexMatch',
...         'not_flag': 0,
...         'value': '.*'
...     },
...     'options': {'and_flag': 1}
... }
```

Handler.**deploy_action_human**(***kwargs*)

Deploy an action and get the results back

This method takes a string or list of strings and parses them into their corresponding definitions needed by `deploy_action()`

Parameters package : str

each string must describe a package

action_filters : str, list of str, optional

each string must describe a sensor and a filter which limits which computers the action will deploy *package* to

action_options : str, list of str, optional

options to apply to *action_filters*

start_seconds_from_now : int, optional

start action N seconds from now

expire_seconds : int, optional

expire action N seconds from now, will be derived from package if not supplied

run : bool, optional

- False: just ask the question that pertains to verify action, export the results to CSV, and raise RunFalse – does not deploy the action
- True: actually deploy the action

get_results : bool, optional

- True: wait for result completion after deploying action
- False: just deploy the action and return the object in *ret*

package_help : bool, optional

- False: do not print the help string for package
- True: print the help string for package and exit

filters_help : bool, optional

- False: do not print the help string for filters
- True: print the help string for filters and exit

options_help : bool, optional

- False: do not print the help string for options
- True: print the help string for options and exit

Returns ret : dict, containing:

- *action_object* : `taniumpy.object_types.action.Action`
- *action_results* : `taniumpy.object_types.result_set.ResultSet`
- *action_progress_human* : str, progress map in human form
- *action_progress_map* : dict, progress map in dictionary form
- *pre_action_question_results* : `taniumpy.object_types.result_set.ResultSet`

See also:

pytan.constants.FILTER_MAPS valid filter dictionaries for filters

pytan.constants.OPTION_MAPS valid option dictionaries for options

Examples

```
>>> # example of str for `package`
>>> package = 'Package1'
```

```
>>> # example of str for `package` with params
>>> package = 'Package1{key:value}'
```

```
>>> # example of str for `action_filters` with params and filter for sensors
>>> action_filters = 'Sensor1{key:value}, that contains:example text'
```

```
>>> # example of list of str for `action_options`
>>> action_options = ['max_data_age:3600', 'and']
```

Handler.**deploy_action_asker**(*action_id*, *passed_count=0*)

> Checks the results of a deploy action job and waits for completion

>> **Parameters action_id** : int
>>
>>> id of deploy action to get results for and wait on completion
>>
>> **passed_count** : int, optional
>>
>>> the number of servers that must equate "completed" in order for deploy action to be recognized as completed
>>
>> **Returns ret** : dict, containing:
>>
>>> • *action_object* : `taniumpy.object_types.action.Action`
>>>
>>> • *action_results* : `taniumpy.object_types.result_set.ResultSet`
>>>
>>> • *action_progress_human* : str, progress map in human form
>>>
>>> • *action_progress_map* : dict, progress map in dictionary form
>>
> See also:
>
> **pytan.constants.ACTION_RESULT_STATUS** maps the values in *Action Statuses* columns to success/completed/failed/etc

Stopping an Action

Handler.**stop_action**(*id*, ***kwargs*)

> Stop an action

>> **Parameters id** : int
>>
>>> id of action to stop
>>
>> **Returns action_stop_obj** : `taniumpy.object_types.action_stop.ActionStop`
>>
>>> The object containing the ID of the action stop job

Handler Methods: Exporting/Importing Objects

Import an API Object from JSON

Handler.**create_from_json**(*objtype*, *json_file*)

> Creates a new object using the SOAP api from a json file

>> **Parameters objtype** : str
>>
>>> Type of object described in *json_file*
>>
>> **json_file** : str
>>
>>> path to JSON file that describes an API object

> **Returns ret** : `taniumpy.object_types.base.BaseType`
>
>> TaniumPy object added to Tanium SOAP Server
>
> **See also:**
>
> **`pytan.constants.GET_OBJ_MAP`** maps objtype to supported 'create_json' types

Load a Python Object from JSON

Handler.**load_taniumpy_from_json**(*json_file*)

> Opens a json file and parses it into an taniumpy object
>
>> **Parameters json_file** : str
>>
>>> path to JSON file that describes an API object
>>
>> **Returns obj** : `taniumpy.object_types.base.BaseType`
>>
>>> TaniumPy object converted from json file

Export Object

Handler.**export_obj**(*obj*, *export_format*, ***kwargs*)

> Exports a python API object to a given export format
>
>> **Parameters obj** : `taniumpy.object_types.base.BaseType` or `taniumpy.object_types.result_set.ResultSet`
>>
>>> TaniumPy object to export
>>
>> **export_format** : str
>>
>>> the number of servers that must equate "completed" in order for deploy action to be recognized as completed
>>
>> **header_sort** : list of str, bool, optional
>>
>>> - for *export_format* csv and *obj* types `taniumpy.object_types.base.BaseType` or `taniumpy.object_types.result_set.ResultSet`
>>> - True: sort the headers automatically
>>> - False: do not sort the headers at all
>>> - list of str: sort the headers returned by priority based on provided list
>>
>> **header_add_sensor** : bool, optional
>>
>>> - for *export_format* csv and *obj* type `taniumpy.object_types.result_set.ResultSet`
>>> - False: do not prefix the headers with the associated sensor name for each column
>>> - True: prefix the headers with the associated sensor name for each column
>>
>> **header_add_type** : bool, optional
>>
>>> - for *export_format* csv and *obj* type `taniumpy.object_types.result_set.ResultSet`
>>> - False: do not postfix the headers with the result type for each column
>>> - True: postfix the headers with the result type for each column
>>
>> **expand_grouped_columns** : bool, optional
>>
>>> - for *export_format* csv and *obj* type `taniumpy.object_types.result_set.ResultSet`
>>> - False: do not expand multiline row entries into their own rows

- True: expand multiline row entries into their own rows

explode_json_string_values : bool, optional

- for *export_format* json or csv and *obj* type `taniumpy.object_types.base.BaseType`
- False: do not explode JSON strings in object attributes into their own object attributes
- True: explode JSON strings in object attributes into their own object attributes

minimal : bool, optional

- for *export_format* xml and *obj* type `taniumpy.object_types.base.BaseType`
- False: include empty attributes in XML output
- True: do not include empty attributes in XML output

Returns result : str

the contents of exporting *export_format*

See also:

`pytan.constants.EXPORT_MAPS` maps the type *obj* to *export_format* and the optional args supported for each

Export Object to Report File

Handler.**export_to_report_file**(*obj*, *export_format*, ***kwargs*)

Exports a python API object to a file

Parameters obj : `taniumpy.object_types.base.BaseType` or `taniumpy.object_types.result_set.ResultSet`

TaniumPy object to export

export_format : str

the number of servers that must equate "completed" in order for deploy action to be recognized as completed

header_sort : list of str, bool, optional

- for *export_format* csv and *obj* types `taniumpy.object_types.base.BaseType` or `taniumpy.object_types.result_set.ResultSet`
- True: sort the headers automatically
- False: do not sort the headers at all
- list of str: sort the headers returned by priority based on provided list

header_add_sensor : bool, optional

- for *export_format* csv and *obj* type `taniumpy.object_types.result_set.ResultSet`
- False: do not prefix the headers with the associated sensor name for each column
- True: prefix the headers with the associated sensor name for each column

header_add_type : bool, optional

- for *export_format* csv and *obj* type `taniumpy.object_types.result_set.ResultSet`
- False: do not postfix the headers with the result type for each column
- True: postfix the headers with the result type for each column

expand_grouped_columns : bool, optional

- for *export_format* csv and *obj* type `taniumpy.object_types.result_set.ResultSet`
- False: do not expand multiline row entries into their own rows
- True: expand multiline row entries into their own rows

explode_json_string_values : bool, optional

- for *export_format* json or csv and *obj* type `taniumpy.object_types.base.BaseType`
- False: do not explode JSON strings in object attributes into their own object attributes
- True: explode JSON strings in object attributes into their own object attributes

minimal : bool, optional

- for *export_format* xml and *obj* type `taniumpy.object_types.base.BaseType`
- False: include empty attributes in XML output
- True: do not include empty attributes in XML output

report_file: str, optional

> filename to save report as, will be automatically generated if not supplied

report_dir: str, optional

> directory to save report in, if not supplied, will be extracted from *report_file*. if no directory in *report_file* or *report_file* not specified, will use current working directory.

prefix: str, optional

> prefix to add to *report_file*

postfix: str, optional

> postfix to add to *report_file*

Returns **report_path** : str

> the full path to the file created with contents of *result*

result : str

> the str of *export_format*

Handler Methods: Creating Objects

Create a Group

Handler.**create_group**(*groupname*, *filters=[]*, *filter_options=[]*, ***kwargs*)

> Create a group object

> **Parameters** **groupname** : str
>
> > name of group to create
>
> **filters** : str or list of str, optional
>
> > each string must describe a filter
>
> **filter_options** : str or list of str, optional
>
> > each string must describe an option for *filters*

filters_help : bool, optional

- False: do not print the help string for filters

- True: print the help string for filters and exit

options_help : bool, optional

- False: do not print the help string for options

- True: print the help string for options and exit

Returns **group_obj** : `taniumpy.object_types.group.Group`

TaniumPy object added to Tanium SOAP Server

See also:

`pytan.constants.FILTER_MAPS` valid filters for filters

`pytan.constants.OPTION_MAPS` valid options for filter_options

Create a Package

Handler.**create_package**(*name, command, display_name='', file_urls=[], command_timeout_seconds=600, expire_seconds=600, parameters_json_file='', verify_filters=[], verify_filter_options=[], verify_expire_seconds=600, **kwargs*)

Create a package object

Parameters **name** : str

name of package to create

command : str

command to execute

display_name : str, optional

display name of package

file_urls : list of strings, optional

- URL of file to add to package

- can optionally define download_seconds by using SECONDS::URL

- can optionally define file name by using FILENAME||URL

- can combine optionals by using SECONDS::FILENAME||URL

- FILENAME will be extracted from basename of URL if not provided

command_timeout_seconds : int, optional

timeout for command execution in seconds

parameters_json_file : str, optional

path to json file describing parameters for package

expire_seconds : int, optional

timeout for action expiry in seconds

verify_filters : str or list of str, optional

each string must describe a filter to be used to verify the package

> **verify_filter_options** : str or list of str, optional
>
> > each string must describe an option for *verify_filters*
>
> **verify_expire_seconds** : int, optional
>
> > timeout for verify action expiry in seconds
>
> **filters_help** : bool, optional
>
> > - False: do not print the help string for filters
> > - True: print the help string for filters and exit
>
> **options_help** : bool, optional
>
> > - False: do not print the help string for options
> > - True: print the help string for options and exit
>
> **Returns package_obj** : `taniumpy.object_types.package_spec.PackageSpec`
>
> > TaniumPy object added to Tanium SOAP Server

See also:

`pytan.constants.FILTER_MAPS` valid filters for verify_filters

`pytan.constants.OPTION_MAPS` valid options for verify_filter_options

Create a Sensor

Handler.**create_sensor**()

> Create a sensor object
>
> > **Raises HandlerError** : `pytan.utils.HandlerError`

> **Warning:** Not currently supported, too complicated to add. Use `create_from_json()` instead for this object type!

Create a User

Handler.**create_user**(*username*, *rolename=[]*, *roleid=[]*, *properties=[]*)

> Create a user object
>
> > **Parameters username** : str
> >
> > > name of user to create
> >
> > **rolename** : str or list of str, optional
> >
> > > name(s) of roles to add to user
> >
> > **roleid** : int or list of int, optional
> >
> > > id(s) of roles to add to user
> >
> > **properties: list of list of strs, optional**
> >
> > > - each list must be a 2 item list:
> > > - list item 1 property name
> > > - list item 2 property value
> >
> > **Returns user_obj** : `taniumpy.object_types.user.User`

TaniumPy object added to Tanium SOAP Server

Create a Whitelisted URL

Handler.**create_whitelisted_url**(*url*, *regex=False*, *download_seconds=86400*, *properties=[]*)
    Create a whitelisted url object

> **Parameters url** : str
>
> > text of new url
>
> **regex** : bool, optional
>
> > - True: *url* is a regex pattern
> > - False: *url* is not a regex pattern
>
> **download_seconds** : int, optional
>
> > how often to re-download *url*
>
> **properties: list of list of strs, optional**
>
> > - each list must be a 2 item list:
> > - list item 1 property name
> > - list item 2 property value
>
> **Returns url_obj** : `taniumpy.object_types.white_listed_url.WhiteListedUrl`
>
> > TaniumPy object added to Tanium SOAP Server

Handler Methods: Deleting Objects

Delete an Object

Handler.**delete**(*objtype*, ***kwargs*)
    Delete an object type

> **Parameters objtype** : string
>
> > type of object to delete
>
> **id/name/hash** : int or string, list of int or string
>
> > search attributes of object to delete, must supply at least one valid search attr
>
> **Returns ret** : dict
>
> > dict containing deploy action object and results from deploy action

See also:

`pytan.constants.GET_OBJ_MAP` maps objtype to supported 'search' keys

Handler Methods: Getting Objects

Get Single or Multiple Objects of a type

Handler.**get**(*objtype*, ***kwargs*)

> Get an object type

>> **Parameters objtype** : string

>>> type of object to get

>>> **id/name/hash** : int or string, list of int or string

>>> search attributes of object to get, must supply at least one valid search attr

> **See also:**

> **pytan.constants.GET_OBJ_MAP** maps objtype to supported 'search' keys

Get All Objects of a type

Handler.**get_all**(*objtype*, ***kwargs*)

> Get all objects of a type

>> **Parameters objtype** : string

>>> type of object to get

> **See also:**

> **pytan.constants.GET_OBJ_MAP** maps objtype to supported 'search' keys

Handler Methods: Getting Result Data / Result Info

Handler.**get_result_data**(*obj*, *aggregate=False*, ***kwargs*)

> Get the result data for a python API object

> This method issues a GetResultData command to the SOAP api for *obj*. GetResultData returns the columns and rows that are currently available for *obj*.

>> **Parameters obj** : taniumpy.object_types.base.BaseType

>>> object to get result data for

>> **aggregate** : bool, optional

>>> • False: get all the data

>>> • True: get just the aggregate data (row counts of matches)

>> **Returns rd** : taniumpy.object_types.result_set.ResultSet

>>> The return of GetResultData for *obj*

Handler.**get_result_info**(*obj*, ***kwargs*)

> Get the result info for a python API object

> This method issues a GetResultInfo command to the SOAP api for *obj*. GetResultInfo returns information about how many servers have passed the *obj*, total number of servers, and so on.

>> **Parameters obj** : taniumpy.object_types.base.BaseType

>>> object to get result data for

> **Returns   ri** : `taniumpy.object_types.result_info.ResultInfo`
>
>> The return of GetResultData for *obj*

Handler Methods: Private Methods

Handler.**_find**(*api_object*, ***kwargs*)
:   Wrapper for interfacing with `taniumpy.session.Session.find()`

Handler.**_get_multi**(*obj_map*, ***kwargs*)
:   Find multiple item wrapper using `_find()`

Handler.**_get_single**(*obj_map*, ***kwargs*)
:   Find single item wrapper using `_find()`

Handler.**_single_find**(*obj_map*, *k*, *v*, ***kwargs*)
:   Wrapper for single item searches interfacing with `taniumpy.session.Session.find()`

Handler.**_get_sensor_defs**(*defs*)
:   Uses `get()` to update a definition with a sensor object

Handler.**_get_package_def**(*d*)
:   Uses `get()` to update a definition with a package object

Handler.**_export_class_BaseType**(*obj*, *export_format*, ***kwargs*)
:   Handles exporting `taniumpy.object_types.base.BaseType`

Handler.**_export_class_ResultSet**(*obj*, *export_format*, ***kwargs*)
:   Handles exporting `taniumpy.object_types.result_set.ResultSet`

Handler.**_export_format_csv**(*obj*, ***kwargs*)
:   Handles exporting format: CSV

Handler.**_export_format_json**(*obj*, ***kwargs*)
:   Handles exporting format: JSON

Handler.**_export_format_xml**(*obj*, ***kwargs*)
:   Handles exporting format: XML

1.6.3 pytan.constants module

PyTan Constants

This contains a number of constants that drive PyTan.

pytan.constants.**ACTION_RESULT_STATUS** = {'Verified.': ['no_verify_done', 'verify_done', 'verify_success'], 'Succeeded
:   Maps a deploy action result status to it's respective end states.

pytan.constants.**ASK_KWARGS** = ['timeout', 'polling_interval', 'pct_complete_threshold']
:   A   list   of   arguments   that   will   be   passed   on   to   the   question   asker/poller
    `taniumpy.question_asker.QuestionAsker`

pytan.constants.**DEBUG_FORMAT** = '[%(lineno)-5d - %(filename)20s:%(funcName)s()] %(asctime)s\n%(levelname)-8s %
:   Logging format for debugformat=True

pytan.constants.**EXPORT_MAPS** = {'ResultSet': {'json': [], 'csv': [{'valid_list_types': ['str', 'unicode'], 'key': 'header_sor

>   **Maps a given TaniumPy object to the list of supported export formats for each object type, and the valid optional argumen**

- key: the optional argument name itself

- valid_types: the valid python types that are allowed to be passed as a value to *key*

- valid_list_types: the valid python types in str format that are allowed to be passed in a list, if list is one of the *valid_types*

pytan.constants.**FILTER_MAPS** = [{'operator': 'Less', 'not_flag': 0, 'help': 'Filter for less than VALUE', 'human': ['<', '

    Maps a given set of human strings into the various filter attributes used by the SOAP API. Also used to verify that a manu

- human: a list of human strings that can be used after '*, that*'. Ex: '*, that* contains value'

- operator: the filter operator used by the SOAP API when building a filter that matches *human*

- not_flag: the value to set on *not_flag* when building a filter that matches *human*

- pre_value: the prefix to add to the value when building a filter

- post_value: the postfix to add to the value when building a filter

pytan.constants.**FILTER_RE** = ',\\s*that'
    The regex that is used to find filters in a string. Ex: *Sensor1,* that *contains blah*

pytan.constants.**GET_OBJ_MAP** = {'user': {'search': ['id'], 'all': 'UserList', 'manual': True, 'multi': None, 'single': 'Use

    Maps an object type from a human friendly string into various aspects:

- single: The TaniumPy object used to find singular instances of this object type

- multi: The TaniumPy object used to find multiple instances of this object type

- all: The TaniumPy object used to find all instances of this object type

- search: The list of attributes that can be used with the Tanium SOAP API for searches

- manual: Whether or not this object type is allowed to do a manual search, that is – allow the user to specify an attribute that is not in search, which will get ALL objects of that type then search for a match based on attribute values for EVERY key/value pair supplied

- delete: Whether or not this object type can be deleted

- create_json: Whether or not this object type can be created by importing from JSON

pytan.constants.**INFO_FORMAT** = '%(asctime)s %(levelname)-8s %(name)s: %(message)s'
    Logging format for debugformat=False

pytan.constants.**LOG_LEVEL_MAPS** = [(0, {'api.session.http': 'WARN', 'api.session': 'WARN', 'handler': 'WARN', 'ques

    Map for loglevel(int) -> logger -> logger level(logging.INFO|WARN|DEBUG|...). Higher loglevels will include all levels up

- int, loglevel

- dict, *{{logger_name: logger_level}}* for this loglevel

pytan.constants.**OPTION_MAPS** = [{'destination': 'filter', 'help': 'Make the filter do a case insensitive match', 'attrs': {'ig

    Maps a given human string into the various options for filters used by the SOAP API. Also used to verify that a manually

- human: the human string that can be used after '*opt:*'. Ex: '*opt*:value_type:value'

- destination: the type of object this option can be applied to (filter or group)

- attrs: the attributes and their values used by the SOAP API when building a filter with an option that matches *human*

- attr: the attribute used by the SOAP API when building a filter with an option that matches *human*. `value` is pulled from after a *:* when only attr exists for an option map, and not attrs.

- valid_values: if supplied, the list of valid values for this option

- valid_type: performs type checking on the value supplied to verify it is correct

- human_type: the human string for the value type if the option requires a value

`pytan.constants.`**`OPTION_RE`** = ',\\s*opt:'
> The regex that is used to find options in a string. Ex: *Sensor1, that contains blah,* `opt:`*ignore_case,* `opt:`*max_data_age:3600*

`pytan.constants.`**`PARAM_DELIM`** = '||'
> The string to surround a parameter with when passing parameters to the SOAP API for a sensor in a question. Ex: *||parameter_key||*

`pytan.constants.`**`PARAM_KEY_SPLIT`** = '='
> The string that is used to split parameter key from parameter value. Ex: *key1=value1*

`pytan.constants.`**`PARAM_RE`** = '\\{(.*?)\\}'
> The regex that is used to parse parameters from a human string. Ex: ala {key1=value1}

`pytan.constants.`**`PARAM_SPLIT_RE`** = '(?<!\\\\),'
> The regex that is used to split multiple parameters. Ex: key1=value1, key2=value2

`pytan.constants.`**`Q_OBJ_MAP`** = {'manual': {'handler': 'ask_manual'}, 'saved': {'handler': 'ask_saved'}, 'manual_human'
> Maps a question type from a human friendly string into the handler method that supports each type

`pytan.constants.`**`REQ_KWARGS`** = ['hide_errors_flag', 'include_answer_times_flag', 'row_counts_only_flag', 'aggregate_ov
> A list of arguments that will be pulled from any respective kwargs for most calls to `taniumpy.session.Session`

`pytan.constants.`**`SELECTORS`** = ['id', 'name', 'hash']
> The search selectors that can be extracted from a string. Ex: name:*Sensor1,* or id:*1,* or hash:*1111111*

`pytan.constants.`**`SENSOR_TYPE_MAP`** = {0: 'Hash', 1: 'String', 2: 'Version', 3: 'NumericDecimal', 4: 'BESDate', 5: 'IPAc
> Maps a Result type from the Tanium SOAP API from an int to a string

1.6.4 pytan.utils module

Collection of exceptions, classes, and methods used throughout `pytan`

Utility Classes: Exceptions

Exceptions used throughout `pytan`:

exception `pytan.utils.`**`HandlerError`**
> Bases: `exceptions.Exception`

> Exception thrown for most errors in `pytan.handler`

exception `pytan.utils.`**`HumanParserError`**
> Bases: `exceptions.Exception`

> Exception thrown for errors while parsing human strings from `pytan.handler`

exception `pytan.utils.`**`DefinitionParserError`**
> Bases: `exceptions.Exception`

> Exception thrown for errors while parsing definitions from `pytan.handler`

exception `pytan.utils.`**`RunFalse`**

Bases: `exceptions.Exception`

Exception thrown when run=False from `pytan.handler.Handler.deploy_action()`

Utility Classes: Logging handlers

class `pytan.utils.`**`SplitStreamHandler`**

Bases: `logging.Handler`

Custom `logging.Handler` class that sends all messages that are logging.INFO and below to STDOUT, and all messages that are logging.WARNING and above to STDERR

`emit`(*record*)

Utility Classes: Argument Parsers for Command Line Scripts

class `pytan.utils.`**`CustomArgFormat`**(*prog*, *indent_increment=2*, *max_help_position=24*, *width=None*)

Bases: `argparse.ArgumentDefaultsHelpFormatter`, `argparse.RawDescriptionHelpFormatter`

Multiple inheritance Formatter class for `argparse.ArgumentParser`.

If a `argparse.ArgumentParser` class uses this as it's Formatter class, it will show the defaults for each argument in the *help* output

class `pytan.utils.`**`CustomArgParse`**(**args*, ***kwargs*)

Bases: `argparse.ArgumentParser`

Custom `argparse.ArgumentParser` class which does a number of things:

- Uses `pytan.utils.CustomArgFormat` as it's Formatter class, if none was passed in

- Prints help if there is an error

- Prints the help for any subparsers that exist

`error`(*message*)

`print_help`(***kwargs*)

Utility Functions: Logging

`pytan.utils.`**`change_console_format`**(*debug=False*)

Changes the logging format for console handler to `pytan.constants.DEBUG_FORMAT` or `pytan.constants.INFO_FORMAT`

Parameters debug : bool, optional

- False : set logging format for console handler to `pytan.constants.INFO_FORMAT`

- True : set logging format for console handler to `pytan.constants.DEBUG_FORMAT`

`pytan.utils.`**`remove_logging_handler`**(*name*)

Removes a logging handler

Parameters name : str

name of logging handler to remove. if name == 'all' then all logging handlers are removed

pytan.utils.**set_all_loglevels**(*level='DEBUG'*)
> Sets all loggers that the logging system knows about to a given logger level

pytan.utils.**set_log_levels**(*loglevel=0*)
> Enables loggers based on loglevel and `pytan.constants.LOG_LEVEL_MAPS`

> > **Parameters loglevel** : int, optional

> > > loglevel to match against each item in `pytan.constants.LOG_LEVEL_MAPS` -
> > > each item that is greater than or equal to loglevel will have the according loggers set to
> > > their respective levels identified there-in.

pytan.utils.**setup_console_logging**()
> Creates a console logging handler using `SplitStreamHandler`

Utility Functions: Type Checking

pytan.utils.**is_dict**(*l*)
> returns True if *l* is a dictionary, False if not

pytan.utils.**is_list**(*l*)
> returns True if *l* is a list, False if not

pytan.utils.**is_num**(*l*)
> returns True if *l* is a number, False if not

pytan.utils.**is_str**(*l*)
> returns True if *l* is a string, False if not

Utility Functions: Misc

pytan.utils.**get_dict_list_items**(*d*, *i*)
> Gets keys from dict *d* if any item in list *i* is in the list value for each key

> > **Parameters d** : dict of str

> > > dict to get strs from if list contains any item from *i*

> > **i** : list of str

> > > list of strs to check if for existence in any lists in *d*

> > **Returns list** : list of str

> > > list of strings from *d* that have *i* in their values

pytan.utils.**get_dict_list_len**(*d*, *keys=[]*, *negate=False*)
> Gets the sum of each list in dict *d*

> > **Parameters d** : dict of str

> > > dict to sums of

> > **keys** : list of str

> > > list of keys to get sums of, if empty gets a sum of all keys

> > **negate** : bool

> > > - only used if keys supplied
> > > - False : get the sums of *d* that do match keys
> > > - True : get the sums of *d* that do not match keys

> > > > **Returns list_len** : int
> > > >
> > > > > sum of lists in *d* that match keys

pytan.utils.**get_now**()

> Get current time in human friendly format

> > **Returns** str :
> >
> > > str of current time return from `human_time()`

pytan.utils.**human_time**(*t*, *tformat='%Y_%m_%d-%H_%M_%S-%Z'*)

> Get time in human friendly format

> > **Parameters t** : int, float, time
> >
> > > either a unix epoch or struct_time object to convert to string
> >
> > **tformat** : str, optional
> >
> > > format of string to convert time to
> >
> > **Returns** str :
> >
> > > *t* converted to str

pytan.utils.**jsonify**(*v*, *indent=2*, *sort_keys=True*)

> Turns python object *v* into a pretty printed JSON string

> > **Parameters v** : object
> >
> > > python object to convert to JSON
> >
> > **indent** : int, 2
> >
> > > number of spaces to indent JSON string when pretty printing
> >
> > **sort_keys** : bool, True
> >
> > > sort keys of JSON string when pretty printing
> >
> > **Returns** str :
> >
> > > JSON pretty printed string

pytan.utils.**port_check**(*address*, *port*, *timeout=5*)

> Check if *address:port* can be reached within *timeout*

> > **Parameters address** : str
> >
> > > hostname/ip address to check *port* on
> >
> > **port** : int
> >
> > > port to check on *address*
> >
> > **timeout** : int, optional
> >
> > > timeout after N seconds of not being able to connect
> >
> > **Returns** `socket` or False :
> >
> > > if connection succeeds, the socket object is returned, else False is returned

pytan.utils.**seconds_from_now**(*secs=0*, *tz='utc'*)

> Get time in Tanium SOAP API format *secs* from now

> > **Parameters secs** : int
> >
> > > seconds from now to get time str

> **tz** : str, optional
>
>> time zone to return string in, default is 'utc' - supplying anything else will supply local time
>
> **Returns** str :
>
>> time *secs* from now in Tanium SOAP API format

pytan.utils.**test_app_port**(*host*, *port*)

> Validates that *host*:*port* can be reached using `port_check()`
>
> **Parameters** **host** : str
>
>> hostname/ip address to check *port* on
>
>> **port** : int
>
>> port to check on *host*
>
> **Raises** **HandlerError** : `pytan.utils.HandlerError`
>
>> if *host*:*port* can not be reached

pytan.utils.**version_check**(*reqver*)

> Allows scripts using `pytan` to validate the version of the script aginst the version of `pytan`
>
> **Parameters** **reqver** : str
>
>> string containing version number to check against `Exception`
>
> **Raises** **Exception** : `Exception`
>
>> if `pytan.__version__` is not greater or equal to *reqver*

pytan.utils.**xml_pretty**(*x*)

> Uses `xmltodict` to pretty print an XML str *x*
>
> **Parameters** **x** : str
>
>> XML string to pretty print
>
> **Returns** str :
>
>> The pretty printed string of *x*

pytan.utils.**xml_pretty_resultobj**(*x*)

> Uses `xmltodict` to pretty print an the result-object element in XML str *x*
>
> **Parameters** **x** : str
>
>> XML string to pretty print
>
> **Returns** str :
>
>> The pretty printed string of result-object in *x*

pytan.utils.**xml_pretty_resultxml**(*x*)

> Uses `xmltodict` to pretty print an the ResultXML element in XML str *x*
>
> **Parameters** **x** : str
>
>> XML string to pretty print
>
> **Returns** str :
>
>> The pretty printed string of ResultXML in *x*

Utility Functions: Argument Parsers for Command Line Scripts

pytan.utils.**setup_parser**(*desc*, *help=False*)
> Method to setup the base `pytan.utils.CustomArgParse` class for command line scripts that use `pytan`. This establishes the basic arguments that are needed by all such scripts, such as:

> > •–help

> > •–username

> > •–password

> > •–host

> > •–port

> > •–loglevel

> > •–debugformat (not shown in –help)

pytan.utils.**setup_get_object_argparser**(*obj*, *doc*)
> Method to setup the base `pytan.utils.CustomArgParse` class for command line scripts using `pytan.utils.setup_parser()`, then add specific arguments for scripts that use `pytan` to get objects.

pytan.utils.**setup_create_json_object_argparser**(*obj*, *doc*)
> Method to setup the base `pytan.utils.CustomArgParse` class for command line scripts using `pytan.utils.setup_parser()`, then add specific arguments for scripts that use `pytan` to create objects from json files.

pytan.utils.**setup_delete_object_argparser**(*obj*, *doc*)
> Method to setup the base `pytan.utils.CustomArgParse` class for command line scripts using `pytan.utils.setup_parser()`, then add specific arguments for scripts that use `pytan` to delete objects.

pytan.utils.**setup_ask_saved_argparser**(*doc*)
> Method to setup the base `pytan.utils.CustomArgParse` class for command line scripts using `pytan.utils.setup_parser()`, then add specific arguments for scripts that use `pytan` to ask saved questions.

pytan.utils.**setup_stop_action_argparser**(*doc*)
> Method to setup the base `pytan.utils.CustomArgParse` class for command line scripts using `pytan.utils.setup_parser()`, then add specific arguments for scripts that use `pytan` to stop actions.

pytan.utils.**setup_deploy_action_argparser**(*doc*)
> Method to setup the base `pytan.utils.CustomArgParse` class for command line scripts using `pytan.utils.setup_parser()`, then add specific arguments for scripts that use `pytan` to deploy actions.

pytan.utils.**setup_get_result_argparser**(*doc*)
> Method to setup the base `pytan.utils.CustomArgParse` class for command line scripts using `pytan.utils.setup_parser()`, then add specific arguments for scripts that use `pytan` to get results for questions or actions.

pytan.utils.**setup_ask_manual_argparser**(*doc*)
> Method to setup the base `pytan.utils.CustomArgParse` class for command line scripts using `pytan.utils.setup_parser()`, then add specific arguments for scripts that use `pytan` to ask manual questions.

pytan.utils.**add_ask_report_argparser**(*parser*)
> Method to extend a `pytan.utils.CustomArgParse` class for command line scripts with arguments for scripts that need to supply export format subparsers for asking questions.

---

pytan.utils.**add_report_file_options**(*parser*)

> Method to extend a `pytan.utils.CustomArgParse` class for command line scripts with arguments for scripts that need to supply export file and directory options.

pytan.utils.**add_get_object_report_argparser**(*parser*)

> Method to extend a `pytan.utils.CustomArgParse` class for command line scripts with arguments for scripts that need to supply export format subparsers for getting objects.

pytan.utils.**get_grp_opts**(*parser*, *grp_names*)

> Used to get arguments in *parser* that match argument group names in *grp_names*

> > **Parameters parser** : `argparse.ArgParse`
> >
> > > ArgParse object
> >
> > **grp_names** : list of str
> >
> > > list of str of argument group names to get arguments for
> >
> > **Returns grp_opts** : list of str
> >
> > > list of arguments gathered from argument group names in *grp_names*

pytan.utils.**process_create_json_object_args**(*parser*, *handler*, *obj*, *all_args*)

> Process command line args supplied by user for create json object

> > **Parameters parser** : `argparse.ArgParse`
> >
> > > ArgParse object used to parse *all_args*
> >
> > **handler** : `pytan.handler.Handler`
> >
> > > Instance of Handler created from command line args
> >
> > **obj** : str
> >
> > > Object type for create json object
> >
> > **all_args** : dict
> >
> > > dict of args parsed from *parser*
> >
> > **Returns response** : `taniumpy.object_types.base.BaseType`
> >
> > > response from `pytan.handler.Handler.create_from_json()`

pytan.utils.**process_delete_object_args**(*parser*, *handler*, *obj*, *all_args*)

> Process command line args supplied by user for delete object

> > **Parameters parser** : `argparse.ArgParse`
> >
> > > ArgParse object used to parse *all_args*
> >
> > **handler** : `pytan.handler.Handler`
> >
> > > Instance of Handler created from command line args
> >
> > **obj** : str
> >
> > > Object type for delete object
> >
> > **all_args** : dict
> >
> > > dict of args parsed from *parser*
> >
> > **Returns response** : `taniumpy.object_types.base.BaseType`
> >
> > > response from `pytan.handler.Handler.delete()`

`pytan.utils.`**`process_get_object_args`**(*parser*, *handler*, *obj*, *all_args*)

> Process command line args supplied by user for get object

>> **Parameters** **parser** : `argparse.ArgParse`

>>> ArgParse object used to parse *all_args*

>> **handler** : `pytan.handler.Handler`

>>> Instance of Handler created from command line args

>> **obj** : str

>>> Object type for get object

>> **all_args** : dict

>>> dict of args parsed from *parser*

>> **Returns** **response** : `taniumpy.object_types.base.BaseType`

>>> response from `pytan.handler.Handler.get()`

Utility Functions: Dehumanize human strings

`pytan.utils.`**`dehumanize_package`**(*package*)

> Turns a package str into a package definition

>> **Parameters** **package** : str

>>> A str that describes a package and optionally a selector and/or parameters

>> **Returns** **package_def** : dict

>>> dict parsed from *sensors*

`pytan.utils.`**`dehumanize_question_filters`**(*question_filters*)

> Turns a question_filters str or list of str into a question filter definition

>> **Parameters** **question_filters** : str, list of str

>>> A str or list of str that describes a sensor for a question filter(s) and optionally a selector and/or filter

>> **Returns** **question_filter_defs** : list of dict

>>> list of dict parsed from *question_filters*

`pytan.utils.`**`dehumanize_question_options`**(*question_options*)

> Turns a question_options str or list of str into a question option definition

>> **Parameters** **question_options** : str, list of str

>>> A str or list of str that describes question options

>> **Returns** **question_option_defs** : list of dict

>>> list of dict parsed from *question_options*

`pytan.utils.`**`dehumanize_sensors`**(*sensors*, *key='sensors'*, *empty_ok=False*)

> Turns a sensors str or list of str into a sensor definition

>> **Parameters** **sensors** : str, list of str

>>> A str or list of str that describes a sensor(s) and optionally a selector, parameters, filter, and/or options

> > **key** : str, optional
> >
> > > Name of key that user should have provided *sensors* as
> >
> > **empty_ok** : bool, optional
> >
> > > False: *sensors* is not allowed to be empty, throw `HumanParserError` if it is empty
> > > True: *sensors* is allowed to be empty
>
> > Returns **sensor_defs** : list of dict
> >
> > > list of dict parsed from *sensors*

pytan.utils.**extract_filter**(*s*)

> Extracts a filter from str *s*
>
> > Parameters **s** : str
> >
> > > A str that may or may not have a filter identified by ', that HUMAN VALUE'
> >
> > Returns **s** : str
> >
> > > str *s* without the parsed_filter included
> >
> > **parsed_filter** : dict
> >
> > > filter attributes mapped from filter from *s* if any found

pytan.utils.**extract_options**(*s*)

> Extracts options from str *s*
>
> > Parameters **s** : str
> >
> > > A str that may or may not have options identified by ', opt:name[:value]'
> >
> > Returns **s** : str
> >
> > > str *s* without the parsed_options included
> >
> > **parsed_options** : list
> >
> > > options extracted from *s* if any found

pytan.utils.**extract_params**(*s*)

> Extracts parameters from str *s*
>
> > Parameters **s** : str
> >
> > > A str that may or may not have parameters identified by {key=value}
> >
> > Returns **s** : str
> >
> > > str *s* without the parsed_params included
> >
> > **parsed_params** : list
> >
> > > parameters extracted from *s* if any found

pytan.utils.**extract_selector**(*s*)

> Extracts a selector from str *s*
>
> > Parameters **s** : str
> >
> > > A str that may or may not have a selector in the beginning in the form of id:, name:, or :hash – if no selector found, name will be assumed as the default selector
> >
> > Returns **s** : str
> >
> > > str *s* without the parsed_selector included

> > > **parsed_selector** : str
> > >
> > > > selector extracted from *s*, or 'name' if none found

pytan.utils.**map_filter**(*filter_str*)

> Maps a filter str against `constants.FILTER_MAPS`

> > **Parameters filter_str** : str
> >
> > > filter_str str that should be validated
> >
> > **Returns filter_attrs** : dict
> >
> > > dict containing mapped filter attributes for SOAP API

pytan.utils.**map_option**(*opt*, *dest*)

> Maps an opt str against `constants.OPTION_MAPS`

> > **Parameters opt** : str
> >
> > > option str that should be validated
> >
> > **dest** : list of str
> >
> > > list of valid destinations (i.e. *filter* or *group*)
> >
> > **Returns opt_attrs** : dict
> >
> > > dict containing mapped option attributes for SOAP API

pytan.utils.**map_options**(*options*, *dest*)

> Maps a list of options using `map_option()`

> > **Parameters options** : list of str
> >
> > > list of str that should be validated
> >
> > **dest** : list of str
> >
> > > list of valid destinations (i.e. *filter* or *group*)
> >
> > **Returns mapped_options** : dict
> >
> > > dict of all mapped_options

Utility Functions: kwargs getters

pytan.utils.**get_ask_kwargs**(***kwargs*)

> Gets QuestionAsker args from kwargs and returns a dict with just those matching args

> > **Parameters **kwargs** : dict
> >
> > > kwargs to get keys from
> >
> > **Returns ask_kwargs** : dict
> >
> > > args from kwargs that are found in `pytan.constants.ASK_KWARGS`

pytan.utils.**get_kwargs_int**(*key*, *default=None*, ***kwargs*)

> Gets key from kwargs and validates it is an int

> > **Parameters key** : str
> >
> > > key to get from kwargs
> >
> > **default** : int, optional
> >
> > > default value to use if key not found in kwargs

> > > ****kwargs** : dict
> > >
> > > > kwargs to get key from
> >
> > **Returns val** : int
> >
> > > value from key, or default if supplied

pytan.utils.**get_req_kwargs**(***kwargs*)

> Gets SOAP API request args from kwargs and returns a dict with just those matching args
>
> > **Parameters **kwargs** : dict
> >
> > > kwargs to get keys from
> >
> > **Returns req_kwargs** : dict
> >
> > > args from kwargs that are found in `pytan.constants.REQ_KWARGS`

Utility Functions: Object mappers

pytan.utils.**get_obj_map**(*objtype*)

> Gets an object map for *objtype*
>
> > **Parameters objtype** : str
> >
> > > object type to get object map from in `pytan.constants.GET_OBJ_MAP`
> >
> > **Returns obj_map** : dict
> >
> > > matching object map for *objtype* from `pytan.constants.GET_OBJ_MAP`

pytan.utils.**get_q_obj_map**(*qtype*)

> Gets an object map for *qtype*
>
> > **Parameters qtype** : str
> >
> > > question type to get object map from in `pytan.constants.Q_OBJ_MAP`
> >
> > **Returns obj_map** : dict
> >
> > > matching object map for *qtype* from `pytan.constants.Q_OBJ_MAP`

Utility Functions: TaniumPy objects

pytan.utils.**apply_options_obj**(*options*, *obj*, *dest*)

> Updates an object with options
>
> > **Parameters options** : dict
> >
> > > dict containing options definition
> >
> > **obj** : `taniumpy.object_types.base.BaseType`
> >
> > > TaniumPy object to apply *options* to
> >
> > **dest** : list of str
> >
> > > list of valid destinations (i.e. *filter* or *group*)
> >
> > **Returns obj** : `taniumpy.object_types.base.BaseType`
> >
> > > TaniumPy object updated with attributes from *options*

pytan.utils.**build_group_obj**(*q_filter_defs*, *q_option_defs*)

> Creates a Group object from q_filter_defs and q_option_defs

---

> **Parameters q_filter_defs** : list of dict
>
> > List of dict that are question filter definitions
>
> > **q_option_defs** : dict
> >
> > dict of question filter options
>
> **Returns group_obj** : `taniumpy.object_types.group.Group`
>
> > Group object with list of `taniumpy.object_types.filter.Filter` built
> > from *q_filter_defs* and *q_option_defs*

`pytan.utils.`**`build_manual_q`**(*selectlist_obj*, *group_obj*)

> Creates a Question object from selectlist_obj and group_obj
>
> > **Parameters selectlist_obj** : `taniumpy.object_types.select_list.SelectList`
> >
> > SelectList object to add to Question object
> >
> > > **group_obj** : `taniumpy.object_types.group.Group`
> > >
> > > Group object to add to Question object
> >
> > **Returns add_q_obj** : `taniumpy.object_types.question.Question`
> >
> > Question object built from selectlist_obj and group_obj

`pytan.utils.`**`build_metadatalist_obj`**(*properties*, *nameprefix*)

> Creates a MetadataList object from properties
>
> > **Parameters properties** : list of list of strs
> >
> > list of lists, each list having two strs - str 1: property key, str2: property value
> >
> > **nameprefix** : str
> >
> > prefix to insert in front of property key when creating MetadataItem
>
> **Returns metadatalist_obj** : `taniumpy.object_types.metadata_list.MetadataList`
>
> > MetadataList object with list of `taniumpy.object_types.metadata_item.MetadataItem`
> > built from *properties*

`pytan.utils.`**`build_param_obj`**(*key*, *val*, *delim=''*)

> Creates a Parameter object from key and value, surrounding key with delim
>
> > **Parameters key** : str
> >
> > key to use for parameter
> >
> > **value** : str
> >
> > value to use for parameter
> >
> > **delim** : str
> >
> > str to surround key with when adding to parameter object
>
> **Returns param_obj** : `taniumpy.object_types.parameter.Parameter`
>
> > Parameter object built from key and val

`pytan.utils.`**`build_param_objlist`**(*obj*, *user_params*, *delim=''*, *derive_def=False*, *empty_ok=False*)

> Creates a ParameterList object from user_params
>
> > **Parameters obj** : `taniumpy.object_types.base.BaseType`
> >
> > TaniumPy object to verify parameters against

> > **user_params** : dict
> >
> > > dict describing key and value of user supplied params
> >
> > **delim** : str
> >
> > > str to surround key with when adding to parameter object
> >
> > **derive_def** : bool, optional
> >
> > > - False: Do not derive default values, and throw a `HandlerError` if user did not supply a value for a given parameter
> > > - True: Try to derive a default value for each parameter if user did not supply one
> >
> > **empty_ok** : bool, optional
> >
> > > - False: If user did not supply a value for a given parameter, throw a `HandlerError`
> > > - True: If user did not supply a value for a given parameter, do not add the parameter to the ParameterList object
>
> Returns **param_objlist** : `taniumpy.object_types.parameter_list.ParameterList`
>
> > ParameterList object with list of `taniumpy.object_types.parameter.Parameter` built from user_params

pytan.utils.**build_selectlist_obj**(*sensor_defs*)

> Creates a SelectList object from sensor_defs
>
> > Parameters **sensor_defs** : list of dict
> >
> > > List of dict that are sensor definitions
> >
> > Returns **select_objlist** : `taniumpy.object_types.select_list.SelectList`
> >
> > > SelectList object with list of `taniumpy.object_types.select.Select` built from *sensor_defs*

pytan.utils.**derive_param_default**(*obj_param*)

> Derive a parameter default
>
> > Parameters **obj_param** : dict
> >
> > > parameter dict from TaniumPy object
> >
> > Returns **def_val** : str
> >
> > > default value derived from obj_param

pytan.utils.**empty_obj**(*taniumpy_object*)

> Validate that a given TaniumPy object is not empty
>
> > Parameters **taniumpy_object** : `taniumpy.object_types.base.BaseType`
> >
> > > object to check if empty
> >
> > Returns bool
> >
> > > True if *taniumpy_object* is considered empty, False otherwise

pytan.utils.**get_filter_obj**(*sensor_def*)

> Creates a Filter object from sensor_def
>
> > Parameters **sensor_def** : dict
> >
> > > dict containing sensor definition
> >
> > Returns **filter_obj** : `taniumpy.object_types.filter.Filter`

Filter object created from *sensor_def*

pytan.utils.**get_obj_params**(*obj*)

Get the parameters from a TaniumPy object and JSON load them

obj [`taniumpy.object_types.base.BaseType`] TaniumPy object to get parameters from

>> **Returns params** : dict

>> JSON loaded dict of parameters from *obj*

pytan.utils.**question_progress**(*asker*, *pct*)

Call back method for `taniumpy.question_asker.QuestionAsker.run()` to report progress while waiting for results from a question

> **Parameters asker** : `taniumpy.question_asker.QuestionAsker`

> QuestionAsker instance

> **pct** : float

> Percentage completion of question

Utility Functions: Definition objects

pytan.utils.**check_dictkey**(*d*, *key*, *valid_types*, *valid_list_types*)

Yet another method to check a dictionary for a key

> **Parameters d** : dict

>> dictionary to check for key

> **key** : str

>> key to check for in d

> **valid_types** : list of str

>> list of str of valid types for key

> **valid_list_types** : list of str

>> if key is a list, validate that all values of list are in valid_list_types

pytan.utils.**chk_def_key**(*def_dict*, *key*, *keytypes*, *keysubtypes=None*, *req=False*)

Checks that def_dict has key

> **Parameters def_dict** : dict

>> Definition dictionary

> **key** : str

>> key to check for in def_dict

> **keytypes** : list of str

>> list of str of valid types for key

> **keysubtypes** : list of str

>> if key is a dict or list, validate that all values of dict or list are in keysubtypes

> **req** : bool

>> • False: key does not have to be in def_dict

- True: key must be in def_dict, throw `DefinitionParserError` if not

pytan.utils.**parse_defs**(*defname*, *deftypes*, *strconv=None*, *empty_ok=True*, *defs=None*, ***kwargs*)
> Parses and validates defs into new_defs

> > **Parameters** **defname** : str
> >
> > > Name of definition
> >
> > **deftypes** : list of str
> >
> > > list of valid types that defs can be
> >
> > **strconv** : str
> >
> > > if supplied, and defs is a str, turn defs into a dict with key = strconv, value = defs
> >
> > **empty_ok** : bool
> >
> > > - True: defs is allowed to be empty
> > > - False: defs is not allowed to be empty
> >
> > **Returns** **new_defs** : list of dict
> >
> > > parsed and validated defs

pytan.utils.**val_package_def**(*package_def*)
> Validates package definitions

> Ensures package definition has a selector, and if a package definition has a params key, that key is valid

> > **Parameters** **package_def** : dict
> >
> > > package definition

pytan.utils.**val_q_filter_defs**(*q_filter_defs*)
> Validates question filter definitions

> Ensures each question filter definition has a selector, and if a question filter definition has a filter key, that key is valid

> > **Parameters** **q_filter_defs** : list of dict
> >
> > > list of question filter definitions

pytan.utils.**val_sensor_defs**(*sensor_defs*)
> Validates sensor definitions

> Ensures each sensor definition has a selector, and if a sensor definition has a params, options, or filter key, that each key is valid

> > **Parameters** **sensor_defs** : list of dict
> >
> > > list of sensor definitions

1.6.5 pytan Unit Tests

This contains unit tests for pytan.

These unit tests do not require a connection to a Tanium server in order to run.

class test_pytan_unit.**TestDehumanizeExtractionUtils**(*methodName='runTest'*)
> Bases: `unittest.case.TestCase`

> **__module__** = 'test_pytan_unit'

test_extract_filter_invalid()

test_extract_filter_nofilter()

test_extract_filter_valid()

test_extract_filter_valid_all()

test_extract_options_invalid_option()

test_extract_options_many()

test_extract_options_missing_value_max_data_age()

test_extract_options_missing_value_value_type()

test_extract_options_nooptions()

test_extract_options_single()

test_extract_params()

test_extract_params_missing_seperator()

test_extract_params_multiparams()

test_extract_params_noparams()

test_extract_selector()

test_extract_selector_use_name_if_noselector()

class test_pytan_unit.**TestDehumanizeQuestionFilterUtils**(*methodName='runTest'*)
Bases: unittest.case.TestCase

__module__ = 'test_pytan_unit'

test_empty_filterlist()

test_empty_filterstr()

test_invalid_filter1()

test_invalid_filter2()

test_invalid_filter3()

test_multi_filter_list()

test_single_filter_list()

test_single_filter_str()

class test_pytan_unit.**TestDehumanizeQuestionOptionUtils**(*methodName='runTest'*)
Bases: unittest.case.TestCase

__module__ = 'test_pytan_unit'

test_empty_optionlist()

test_empty_optionstr()

test_invalid_option1()

test_invalid_option2()

test_option_list_many()

test_option_list_multi()

test_option_list_single()

test_option_str()

class test_pytan_unit.**TestDehumanizeSensorUtils**(*methodName='runTest'*)

Bases: unittest.case.TestCase

__module__ = 'test_pytan_unit'

test_empty_args_dict()

test_empty_args_list()

test_empty_args_str()

test_multi_list_complex()

test_single_str()

test_single_str_complex1()

test_single_str_complex2()

test_single_str_with_filter()

test_valid_simple_list()

test_valid_simple_str_hash_selector()

test_valid_simple_str_id_selector()

test_valid_simple_str_name_selector()

class test_pytan_unit.**TestGenericUtils**(*methodName='runTest'*)

Bases: unittest.case.TestCase

__module__ = 'test_pytan_unit'

test_ask_kwargs()

test_empty_obj()

test_get_now()

test_get_obj_map()

test_get_q_obj_map()

test_invalid_port()

test_is_dict()

test_is_list()

test_is_not_dict()

test_is_not_list()

test_is_not_num()

test_is_not_str()

test_is_num()

test_is_str()

test_jsonify()

test_req_kwargs()

test_version_higher()

test_version_lower()

class `test_pytan_unit.`**TestManualBuildObjectUtils**(*methodName='runTest'*)
 Bases: `unittest.case.TestCase`

 __module__ = 'test_pytan_unit'

 classmethod setUpClass()

 test_build_group_obj()

 test_build_manual_q()

 test_build_selectlist_obj_invalid_filter()

 test_build_selectlist_obj_missing_value()

 test_build_selectlist_obj_noparamssensorobj_noparams()
  builds a selectlist object using a sensor obj with no params

 test_build_selectlist_obj_noparamssensorobj_withparams()
  builds a selectlist object using a sensor obj with no params, but passing in params (which should be ignored)

 test_build_selectlist_obj_withparamssensorobj_noparams()
  builds a selectlist object using a sensor obj with 4 params but not supplying any values for any of the params

 test_build_selectlist_obj_withparamssensorobj_withparams()
  builds a selectlist object using a sensor obj with 4 params but supplying a value for only one param

class `test_pytan_unit.`**TestManualPackageDefValidateUtils**(*methodName='runTest'*)
 Bases: `unittest.case.TestCase`

 __module__ = 'test_pytan_unit'

 test_invalid1()

 test_invalid2()

 test_valid1()

 test_valid2()

class `test_pytan_unit.`**TestManualQuestionFilterDefParseUtils**(*methodName='runTest'*)
 Bases: `unittest.case.TestCase`

 __module__ = 'test_pytan_unit'

 test_parse_emptydict()

 test_parse_emptylist()

 test_parse_emptystr()

 test_parse_multi_filter()

 test_parse_noargs()

 test_parse_none()

 test_parse_single_filter()

 test_parse_str()

class `test_pytan_unit.`**TestManualQuestionFilterDefValidateUtils**(*methodName='runTest'*)
 Bases: `unittest.case.TestCase`

 __module__ = 'test_pytan_unit'

test_invalid1()

test_valid1()

test_valid2()

class test_pytan_unit.**TestManualQuestionOptionDefParseUtils**(*methodName='runTest'*)
Bases: unittest.case.TestCase

__module__ = 'test_pytan_unit'

test_parse_emptydict()

test_parse_emptylist()

test_parse_emptystr()

test_parse_list()

test_parse_noargs()

test_parse_none()

test_parse_options_dict()

test_parse_str()

class test_pytan_unit.**TestManualSensorDefParseUtils**(*methodName='runTest'*)
Bases: unittest.case.TestCase

__module__ = 'test_pytan_unit'

test_parse_complex()
list with many items is parsed into same list

test_parse_dict_hash()
dict with hash is parsed into list of same dict

test_parse_dict_id()
dict with id is parsed into list of same dict

test_parse_dict_name()
dict with name is parsed into list of same dict

test_parse_emptydict()
args=={} throws exception

test_parse_emptylist()
args==[] throws exception

test_parse_emptystr()
args=='' throws exception

test_parse_noargs()
no args throws exception

test_parse_none()
args==None throws exception

test_parse_str1()
simple str is parsed into list of same str

class test_pytan_unit.**TestManualSensorDefValidateUtils**(*methodName='runTest'*)
Bases: unittest.case.TestCase

__module__ = 'test_pytan_unit'

---

test_invalid1()

test_invalid2()

test_invalid3()

test_invalid4()

test_valid1()

test_valid2()

test_valid3()

test_valid4()

1.6.6 pytan Functional Tests

This contains functional tests for pytan.

These functional tests require a connection to a Tanium server in order to run. The connection info is pulled from the SERVER_INFO dictionary in test/API_INFO.py.

These tests all use ddt, a package that provides for data driven tests via JSON files.

class test_pytan_func.**InvalidServerTests**(*methodName='runTest'*)
Bases: unittest.case.TestCase

__module__ = 'test_pytan_func'

classmethod setUpClass()

test_invalid_connect_1_bad_username()

test_invalid_connect_2_bad_host_and_non_ssl_port()

test_invalid_connect_3_bad_password()

test_invalid_connect_4_bad_host_and_bad_port()

class test_pytan_func.**ValidServerTests**(*methodName='runTest'*)
Bases: unittest.case.TestCase

__module__ = 'test_pytan_func'

classmethod setUpClass()

setup_test()

test_invalid_create_object_1_invalid_create_sensor()

test_invalid_create_object_from_json_1_invalid_create_saved_action_from_json()

test_invalid_create_object_from_json_2_invalid_create_client_from_json()

test_invalid_create_object_from_json_3_invalid_create_userrole_from_json()

test_invalid_create_object_from_json_4_invalid_create_setting_from_json()

test_invalid_deploy_action_1_invalid_deploy_action_run_false()

test_invalid_deploy_action_2_invalid_deploy_action_package_help()

test_invalid_deploy_action_3_invalid_deploy_action_package()

test_invalid_deploy_action_4_invalid_deploy_action_options_help()

test_invalid_deploy_action_5_invalid_deploy_action_empty_package()

`test_invalid_deploy_action_6_invalid_deploy_action_filters_help`()

`test_invalid_deploy_action_7_invalid_deploy_action_missing_parameters`()

`test_invalid_export_basetype_1_invalid_export_basetype_csv_bad_explode_type`()

`test_invalid_export_basetype_2_invalid_export_basetype_csv_bad_sort_sub_type`()

`test_invalid_export_basetype_3_invalid_export_basetype_csv_bad_sort_type`()

`test_invalid_export_basetype_4_invalid_export_basetype_xml_bad_minimal_type`()

`test_invalid_export_basetype_5_invalid_export_basetype_json_bad_include_type`()

`test_invalid_export_basetype_6_invalid_export_basetype_json_bad_explode_type`()

`test_invalid_export_basetype_7_invalid_export_basetype_bad_format`()

`test_invalid_export_resultset_1_invalid_export_resultset_csv_bad_sort_sub_type`()

`test_invalid_export_resultset_2_invalid_export_resultset_csv_bad_sort_type`()

`test_invalid_export_resultset_3_invalid_export_resultset_csv_bad_expand_type`()

`test_invalid_export_resultset_4_invalid_export_resultset_csv_bad_sensors_sub_type`()

`test_invalid_export_resultset_5_invalid_export_resultset_bad_format`()

`test_invalid_get_object_1_invalid_get_action_single_by_name`()

`test_invalid_get_object_2_invalid_get_question_by_name`()

`test_invalid_question_1_invalid_ask_manual_human_question_paramater_too_many`()

`test_invalid_question_2_invalid_ask_manual_human_question_filter_help`()

`test_invalid_question_3_invalid_ask_manual_human_question_option`()

`test_invalid_question_4_invalid_ask_manual_human_question_filter`()

`test_invalid_question_5_invalid_ask_manual_human_question_parameter_split`()

`test_invalid_question_6_invalid_ask_manual_human_question_option_help`()

`test_invalid_question_7_invalid_ask_manual_question_sensor`()

`test_invalid_question_8_invalid_ask_manual_human_question_sensor_help`()

`test_valid_create_object_1_create_user`()

`test_valid_create_object_2_create_package`()

`test_valid_create_object_3_create_group`()

`test_valid_create_object_4_create_whitelisted_url`()

`test_valid_create_object_from_json_1_create_package_from_json`()

`test_valid_create_object_from_json_2_create_user_from_json`()

`test_valid_create_object_from_json_3_create_saved_question_from_json`()

`test_valid_create_object_from_json_4_create_action_from_json`()

`test_valid_create_object_from_json_5_create_sensor_from_json`()

`test_valid_create_object_from_json_6_create_question_from_json`()

`test_valid_create_object_from_json_7_create_whitelisted_url_from_json`()

`test_valid_create_object_from_json_8_create_group_from_json`()

test_valid_deploy_action_1_deploy_action_simple_against_windows_computers()

test_valid_deploy_action_2_deploy_action_simple_without_results()

test_valid_deploy_action_3_deploy_action_with_params_against_windows_computers()

test_valid_deploy_action_4_deploy_action_simple()

test_valid_export_basetype_10_export_basetype_xml_default_options()

test_valid_export_basetype_11_export_basetype_csv_with_explode_true()

test_valid_export_basetype_12_export_basetype_json_explode_false()

test_valid_export_basetype_13_export_basetype_json_type_false()

test_valid_export_basetype_14_export_basetype_json_default_options()

test_valid_export_basetype_1_export_basetype_csv_with_sort_list()

test_valid_export_basetype_2_export_basetype_csv_with_explode_false()

test_valid_export_basetype_3_export_basetype_json_type_true()

test_valid_export_basetype_4_export_basetype_xml_minimal_false()

test_valid_export_basetype_5_export_basetype_xml_minimal_true()

test_valid_export_basetype_6_export_basetype_csv_with_sort_empty_list()

test_valid_export_basetype_7_export_basetype_csv_default_options()

test_valid_export_basetype_8_export_basetype_json_explode_true()

test_valid_export_basetype_9_export_basetype_csv_with_sort_true()

test_valid_export_resultset_10_export_resultset_csv_default_options()

test_valid_export_resultset_11_export_resultset_csv_type_true()

test_valid_export_resultset_12_export_resultset_csv_all_options()

test_valid_export_resultset_13_export_resultset_csv_sort_false()

test_valid_export_resultset_1_export_resultset_json()

test_valid_export_resultset_2_export_resultset_csv_sensor_true()

test_valid_export_resultset_3_export_resultset_csv_type_false()

test_valid_export_resultset_4_export_resultset_csv_expand_false()

test_valid_export_resultset_5_export_resultset_csv_sort_empty()

test_valid_export_resultset_6_export_resultset_csv_sort_true()

test_valid_export_resultset_7_export_resultset_csv_sort_list()

test_valid_export_resultset_8_export_resultset_csv_sensor_false()

test_valid_export_resultset_9_export_resultset_csv_expand_true()

test_valid_get_object_10_get_all_saved_questions()

test_valid_get_object_11_get_user_by_name()

test_valid_get_object_12_get_all_userroless()

test_valid_get_object_13_get_all_questions()

test_valid_get_object_14_get_sensor_by_id()

test_valid_get_object_15_get_all_groups()

test_valid_get_object_16_get_all_sensors()

test_valid_get_object_17_get_sensor_by_mixed()

test_valid_get_object_18_get_whitelisted_url_by_id()

test_valid_get_object_19_get_group_by_name()

test_valid_get_object_1_get_all_users()

test_valid_get_object_20_get_all_whitelisted_urls()

test_valid_get_object_21_get_sensor_by_hash()

test_valid_get_object_22_get_package_by_name()

test_valid_get_object_23_get_all_clients()

test_valid_get_object_24_get_sensor_by_names()

test_valid_get_object_25_get_all_packages()

test_valid_get_object_26_get_saved_question_by_name()

test_valid_get_object_27_get_all_actions()

test_valid_get_object_28_get_user_by_id()

test_valid_get_object_29_get_sensor_by_name()

test_valid_get_object_2_get_action_by_id()

test_valid_get_object_30_get_saved_action_by_name()

test_valid_get_object_3_get_question_by_id()

test_valid_get_object_4_get_saved_question_by_names()

test_valid_get_object_5_get_userrole_by_id()

test_valid_get_object_6_get_all_saved_actions()

test_valid_get_object_7_get_leader_clients()

test_valid_get_object_8_get_all_settings()

test_valid_get_object_9_get_setting_by_name()

test_valid_question_10_ask_manual_human_question_sensor_with_parameters_and_filter_and

test_valid_question_11_ask_manual_human_question_sensor_with_filter_and_2_options()

test_valid_question_12_ask_manual_human_question_sensor_with_filter()

test_valid_question_13_ask_manual_human_question_simple_multiple_sensors()

test_valid_question_14_ask_manual_human_question_multiple_sensors_identified_by_name()

test_valid_question_15_ask_manual_human_question_sensor_with_parameters_and_filter()

test_valid_question_16_ask_saved_question_by_name()

test_valid_question_17_ask_manual_human_question_sensor_with_parameters_and_no_supplied

test_valid_question_1_ask_manual_human_question_sensor_with_parameters_and_some_supplied

test_valid_question_2_ask_manual_human_question_simple_single_sensor()

test_valid_question_3_ask_manual_human_question_sensor_with_filter_and_3_options()

> > > **test_valid_question_4_ask_manual_human_question_sensor_without_parameters_and_supplied**
> > >
> > > **test_valid_question_5_ask_manual_human_question_complex_query2**()
> > >
> > > **test_valid_question_6_ask_manual_human_question_complex_query1**()
> > >
> > > **test_valid_question_7_ask_saved_question_by_name_in_list**()
> > >
> > > **test_valid_question_8_ask_manual_human_question_multiple_sensors_with_parameters_and_se**
> > >
> > > **test_valid_question_9_ask_manual_question_sensor_complex**()

test_pytan_func.**spew**(*m*)

1.7 taniumpy package

1.7.1 taniumpy.session module

Session handler for Tanium API

exception taniumpy.session.**AuthorizationError**
> Bases: exceptions.Exception

exception taniumpy.session.**BadResponseError**
> Bases: exceptions.Exception

class taniumpy.session.**DynamicFormatter**
> Bases: string.Formatter

> **get_value**(*key*, *args*, *kwargs*)

exception taniumpy.session.**HttpError**
> Bases: exceptions.Exception

class taniumpy.session.**Session**(*server*, *port=443*)
> Bases: object

> **ADD_OBJECT = 'AddObject'**

> **AUTH_RES = '/auth'**

> **DELETE_OBJECT = 'DeleteObject'**

> **FORMATTER**(*format_string*, **args*, ***kwargs*)

> **GET_OBJECT = 'GetObject'**

> **GET_RESULT_DATA = 'GetResultData'**

> **GET_RESULT_INFO = 'GetResultInfo'**

> **INFO_RES = '/info.json'**

> **REQUEST_BODY = u'<SOAP-ENV:Envelope xmlns:SOAP-ENV="http://schemas.xmlsoap.org/soap/envelope/" xmlns:xsd=**

> **SOAP_PORT = 444**

> **SOAP_RES = '/soap'**

> **UPDATE_OBJECT = 'UpdateObject'**

> **add**(*obj*, ***kwargs*)

> **authenticate**(*username=None*, *password=None*)

delete(*obj*, ***kwargs*)

find(*object_type*, ***kwargs*)

getResultData(*obj*, ***kwargs*)

getResultInfo(*obj*, ***kwargs*)

get_server_info()

is_auth

save(*obj*, ***kwargs*)

server_version

session_id

taniumpy.session.**http_post**(*host*, *port*, *url*, *body=None*, *headers=None*, *timeout=5*)

taniumpy.session.**load_file**(*filename*)

1.7.2 taniumpy.question_asker module

class taniumpy.question_asker.**QuestionAsker**(*session*, *question*, *polling_interval=None*, *pct_complete_threshold=99*, *timeout=300*)

Bases: `object`

A class to aid in asking a Question.

The primary function of this class is to poll for result info for question, and fire off events:

ProgressChanged AnswersChanged AnswersComplete

POLLING_INTERVAL = 5

run(*callbacks={}*, ***kwargs*)

Poll for question data and issue callbacks.

Callbacks should be a dict with members: 'ProgressChanged' 'AnswersChanged' 'AnswersComplete'

Each should be a function that accepts a QuestionAsker and a percent complete.

Any callback can choose to get data from the session by calling asker.session.getResultData(asker.question)

Polling will be stopped only when one of the callbacks calls the stop() method or the answers are complete. Note that callbacks can call setPercentCompleteThreshold to change what done means on the fly

setPctCompleteThreshold(*val*)

stop()

exception taniumpy.question_asker.**QuestionTimeoutException**

Bases: `exceptions.Exception`

1.7.3 taniumpy.object_types package

taniumpy.object_types module

taniumpy.object_types.action module

class taniumpy.object_types.action.**Action**
    Bases: taniumpy.object_types.base.BaseType

taniumpy.object_types.action_list module

class taniumpy.object_types.action_list.**ActionList**
    Bases: taniumpy.object_types.base.BaseType

taniumpy.object_types.action_list_info module

class taniumpy.object_types.action_list_info.**ActionListInfo**
    Bases: taniumpy.object_types.base.BaseType

taniumpy.object_types.action_stop module

class taniumpy.object_types.action_stop.**ActionStop**
    Bases: taniumpy.object_types.base.BaseType

taniumpy.object_types.action_stop_list module

class taniumpy.object_types.action_stop_list.**ActionStopList**
    Bases: taniumpy.object_types.base.BaseType

taniumpy.object_types.all_objects module

taniumpy.object_types.archived_question module

class taniumpy.object_types.archived_question.**ArchivedQuestion**
    Bases: taniumpy.object_types.base.BaseType

taniumpy.object_types.archived_question_list module

class taniumpy.object_types.archived_question_list.**ArchivedQuestionList**
    Bases: taniumpy.object_types.base.BaseType

taniumpy.object_types.audit_data module

class taniumpy.object_types.audit_data.**AuditData**
    Bases: taniumpy.object_types.base.BaseType

taniumpy.object_types.base module

class `taniumpy.object_types.base.`**`BaseType`**(*simple_properties*, *complex_properties*, *list_properties*)

> Bases: `object`
>
> **`append`**(*n*)
>> Allow adding to list.
>>
>> Only supported on types that have a single property that is in list_properties
>
> **`explode_json`**(*val*)
>
> **`flatten_jsonable`**(*val*, *prefix*)
>
> **classmethod `fromSOAPBody`**(*body*)
>> Parse body (text) and produce Python tanium objects.
>>
>> This method assumes a single result_object, which may be a list or a single object.
>
> **classmethod `fromSOAPElement`**(*el*)
>
> **static `from_jsonable`**(*jsonable*)
>> Inverse of to_jsonable, with explode_json_string_values=False.
>>
>> This can be used to import objects from serialized JSON. This JSON should come from BaseType.to_jsonable(explode_json_string_values=False, include+type=True)
>
>> **Examples**
>>
>> ```
>> >>> with open('question_list.json') as fd:
>> ...     questions = json.loads(fd.read())
>> ...     # is a list of serialized questions
>> ...     question_objects = BaseType.from_jsonable(questions)
>> ...     # will return a list of api.Question
>> ```
>
> **`toSOAPBody`**(*minimal=False*)
>
> **`toSOAPElement`**(*minimal=False*)
>
> **`to_flat_dict`**(*prefix=''*, *explode_json_string_values=False*)
>> Convert the object to a dict, flattening any lists or nested types
>
> **`to_flat_dict_explode_json`**(*val*, *prefix=''*)
>> see if the value is json. If so, flatten it out into a dict
>
> **static `to_json`**(*jsonable*, ***kwargs*)
>> Convert to a json string.
>>
>> jsonable can be a single BaseType instance of a list of BaseType
>
> **`to_jsonable`**(*explode_json_string_values=False*, *include_type=True*)
>
> **static `write_csv`**(*fd*, *val*, *explode_json_string_values=False*, ***kwargs*)
>> Write 'val' to CSV. val can be a BaseType instance or a list of BaseType
>>
>> This does a two-pass, calling to_flat_dict for each object, then finding the union of all headers, then writing out the value of each column for each object sorted by header name
>>
>> explode_json_string_values attempts to see if any of the str values are parseable by json.loads, and if so treat each property as a column value

fd is a file-like object

exception `taniumpy.object_types.base.`**`IncorrectTypeException`**(*property*, *expected*, *actual*)

Bases: `exceptions.Exception`

Raised when a property is not of the expected type

taniumpy.object_types.cache_filter module

class `taniumpy.object_types.cache_filter.`**`CacheFilter`**

Bases: `taniumpy.object_types.base.BaseType`

taniumpy.object_types.cache_filter_list module

class `taniumpy.object_types.cache_filter_list.`**`CacheFilterList`**

Bases: `taniumpy.object_types.base.BaseType`

taniumpy.object_types.cache_info module

class `taniumpy.object_types.cache_info.`**`CacheInfo`**

Bases: `taniumpy.object_types.base.BaseType`

taniumpy.object_types.client_count module

class `taniumpy.object_types.client_count.`**`ClientCount`**

Bases: `taniumpy.object_types.base.BaseType`

taniumpy.object_types.client_status module

class `taniumpy.object_types.client_status.`**`ClientStatus`**

Bases: `taniumpy.object_types.base.BaseType`

taniumpy.object_types.column module

class `taniumpy.object_types.column.`**`Column`**

Bases: `object`

classmethod **`fromSOAPElement`**(*el*)

taniumpy.object_types.column_set module

class `taniumpy.object_types.column_set.`**`ColumnSet`**

Bases: `object`

classmethod **`fromSOAPElement`**(*el*)

taniumpy.object_types.computer_group module

class `taniumpy.object_types.computer_group.`**`ComputerGroup`**

Bases: `taniumpy.object_types.base.BaseType`

taniumpy.object_types.computer_group_list module

class taniumpy.object_types.computer_group_list.**ComputerGroupList**
    Bases: taniumpy.object_types.base.BaseType

taniumpy.object_types.computer_group_spec module

class taniumpy.object_types.computer_group_spec.**ComputerGroupSpec**
    Bases: taniumpy.object_types.base.BaseType

taniumpy.object_types.computer_spec_list module

class taniumpy.object_types.computer_spec_list.**ComputerSpecList**
    Bases: taniumpy.object_types.base.BaseType

taniumpy.object_types.error_list module

class taniumpy.object_types.error_list.**ErrorList**
    Bases: taniumpy.object_types.base.BaseType

taniumpy.object_types.filter module

class taniumpy.object_types.filter.**Filter**
    Bases: taniumpy.object_types.base.BaseType

taniumpy.object_types.filter_list module

class taniumpy.object_types.filter_list.**FilterList**
    Bases: taniumpy.object_types.base.BaseType

taniumpy.object_types.group module

class taniumpy.object_types.group.**Group**
    Bases: taniumpy.object_types.base.BaseType

taniumpy.object_types.group_list module

class taniumpy.object_types.group_list.**GroupList**
    Bases: taniumpy.object_types.base.BaseType

taniumpy.object_types.metadata_item module

class taniumpy.object_types.metadata_item.**MetadataItem**
    Bases: taniumpy.object_types.base.BaseType

taniumpy.object_types.metadata_list module

class taniumpy.object_types.metadata_list.**MetadataList**
    Bases: `taniumpy.object_types.base.BaseType`

taniumpy.object_types.object_list module

class taniumpy.object_types.object_list.**ObjectList**
    Bases: `taniumpy.object_types.base.BaseType`

taniumpy.object_types.object_list_types module

taniumpy.object_types.options module

class taniumpy.object_types.options.**Options**
    Bases: `taniumpy.object_types.base.BaseType`

taniumpy.object_types.package_file module

class taniumpy.object_types.package_file.**PackageFile**
    Bases: `taniumpy.object_types.base.BaseType`

taniumpy.object_types.package_file_list module

class taniumpy.object_types.package_file_list.**PackageFileList**
    Bases: `taniumpy.object_types.base.BaseType`

taniumpy.object_types.package_file_status module

class taniumpy.object_types.package_file_status.**PackageFileStatus**
    Bases: `taniumpy.object_types.base.BaseType`

taniumpy.object_types.package_file_status_list module

class taniumpy.object_types.package_file_status_list.**PackageFileStatusList**
    Bases: `taniumpy.object_types.base.BaseType`

taniumpy.object_types.package_file_template module

class taniumpy.object_types.package_file_template.**PackageFileTemplate**
    Bases: `taniumpy.object_types.base.BaseType`

taniumpy.object_types.package_file_template_list module

class taniumpy.object_types.package_file_template_list.**PackageFileTemplateList**
    Bases: `taniumpy.object_types.base.BaseType`

taniumpy.object_types.package_spec module

class taniumpy.object_types.package_spec.**PackageSpec**
    Bases: [taniumpy.object_types.base.BaseType](#)

taniumpy.object_types.package_spec_list module

class taniumpy.object_types.package_spec_list.**PackageSpecList**
    Bases: [taniumpy.object_types.base.BaseType](#)

taniumpy.object_types.parameter module

class taniumpy.object_types.parameter.**Parameter**
    Bases: [taniumpy.object_types.base.BaseType](#)

taniumpy.object_types.parameter_list module

class taniumpy.object_types.parameter_list.**ParameterList**
    Bases: [taniumpy.object_types.base.BaseType](#)

taniumpy.object_types.parse_job module

class taniumpy.object_types.parse_job.**ParseJob**
    Bases: [taniumpy.object_types.base.BaseType](#)

taniumpy.object_types.parse_job_list module

class taniumpy.object_types.parse_job_list.**ParseJobList**
    Bases: [taniumpy.object_types.base.BaseType](#)

taniumpy.object_types.parse_result module

class taniumpy.object_types.parse_result.**ParseResult**
    Bases: [taniumpy.object_types.base.BaseType](#)

taniumpy.object_types.parse_result_group module

class taniumpy.object_types.parse_result_group.**ParseResultGroup**
    Bases: [taniumpy.object_types.base.BaseType](#)

taniumpy.object_types.parse_result_group_list module

class taniumpy.object_types.parse_result_group_list.**ParseResultGroupList**
    Bases: [taniumpy.object_types.base.BaseType](#)

taniumpy.object_types.parse_result_list module

class taniumpy.object_types.parse_result_list.**ParseResultList**
    Bases: `taniumpy.object_types.base.BaseType`

taniumpy.object_types.plugin module

class taniumpy.object_types.plugin.**Plugin**
    Bases: `taniumpy.object_types.base.BaseType`

taniumpy.object_types.plugin_argument module

class taniumpy.object_types.plugin_argument.**PluginArgument**
    Bases: `taniumpy.object_types.base.BaseType`

taniumpy.object_types.plugin_argument_list module

class taniumpy.object_types.plugin_argument_list.**PluginArgumentList**
    Bases: `taniumpy.object_types.base.BaseType`

taniumpy.object_types.plugin_command_list module

class taniumpy.object_types.plugin_command_list.**PluginCommandList**
    Bases: `taniumpy.object_types.base.BaseType`

taniumpy.object_types.plugin_list module

class taniumpy.object_types.plugin_list.**PluginList**
    Bases: `taniumpy.object_types.base.BaseType`

taniumpy.object_types.plugin_schedule module

class taniumpy.object_types.plugin_schedule.**PluginSchedule**
    Bases: `taniumpy.object_types.base.BaseType`

taniumpy.object_types.plugin_schedule_list module

class taniumpy.object_types.plugin_schedule_list.**PluginScheduleList**
    Bases: `taniumpy.object_types.base.BaseType`

taniumpy.object_types.plugin_sql module

class taniumpy.object_types.plugin_sql.**PluginSql**
    Bases: `taniumpy.object_types.base.BaseType`

taniumpy.object_types.plugin_sql_column module

class `taniumpy.object_types.plugin_sql_column.`**`PluginSqlColumn`**
 Bases: `taniumpy.object_types.base.BaseType`

taniumpy.object_types.plugin_sql_result module

class `taniumpy.object_types.plugin_sql_result.`**`PluginSqlResult`**
 Bases: `taniumpy.object_types.base.BaseType`

taniumpy.object_types.question module

class `taniumpy.object_types.question.`**`Question`**
 Bases: `taniumpy.object_types.base.BaseType`

taniumpy.object_types.question_list module

class `taniumpy.object_types.question_list.`**`QuestionList`**
 Bases: `taniumpy.object_types.base.BaseType`

taniumpy.object_types.question_list_info module

class `taniumpy.object_types.question_list_info.`**`QuestionListInfo`**
 Bases: `taniumpy.object_types.base.BaseType`

taniumpy.object_types.result_info module

class `taniumpy.object_types.result_info.`**`ResultInfo`**
 Bases: `object`

 Wrap the result of GetResultInfo

 classmethod **`fromSOAPElement`** (*el*)
  Deserialize a ResultInfo from a result_info SOAPElement

  Assumes all properties are integer values (true today)

taniumpy.object_types.result_set module

class `taniumpy.object_types.result_set.`**`ResultSet`**
 Bases: `object`

 Wrap the result of GetResultData

 classmethod **`fromSOAPElement`** (*el*)
  Deserialize a ResultInfo from a result_info SOAPElement

  Assumes all properties are integer values (true today)

 static **`to_json`** (*jsonable*, ***kwargs*)
  Convert to a json string.

  jsonable must be a ResultSet instance

to_jsonable(***kwargs*)

static **write_csv**(*fd*, *val*, ***kwargs*)

taniumpy.object_types.row module

class taniumpy.object_types.row.**Row**(*columns*)

Bases: object

A row in a result set.

Values are stored in column order, also accessible by key using []

classmethod fromSOAPElement(*el*, *columns*)

taniumpy.object_types.saved_action module

class taniumpy.object_types.saved_action.**SavedAction**

Bases: taniumpy.object_types.base.BaseType

taniumpy.object_types.saved_action_approval module

class taniumpy.object_types.saved_action_approval.**SavedActionApproval**

Bases: taniumpy.object_types.base.BaseType

taniumpy.object_types.saved_action_list module

class taniumpy.object_types.saved_action_list.**SavedActionList**

Bases: taniumpy.object_types.base.BaseType

taniumpy.object_types.saved_action_policy module

class taniumpy.object_types.saved_action_policy.**SavedActionPolicy**

Bases: taniumpy.object_types.base.BaseType

taniumpy.object_types.saved_action_row_id_list module

class taniumpy.object_types.saved_action_row_id_list.**SavedActionRowIdList**

Bases: taniumpy.object_types.base.BaseType

taniumpy.object_types.saved_question module

class taniumpy.object_types.saved_question.**SavedQuestion**

Bases: taniumpy.object_types.base.BaseType

taniumpy.object_types.saved_question_list module

class taniumpy.object_types.saved_question_list.**SavedQuestionList**

Bases: taniumpy.object_types.base.BaseType

taniumpy.object_types.select module

class taniumpy.object_types.select.**Select**
    Bases: taniumpy.object_types.base.BaseType

taniumpy.object_types.select_list module

class taniumpy.object_types.select_list.**SelectList**
    Bases: taniumpy.object_types.base.BaseType

taniumpy.object_types.sensor module

class taniumpy.object_types.sensor.**Sensor**
    Bases: taniumpy.object_types.base.BaseType

taniumpy.object_types.sensor_list module

class taniumpy.object_types.sensor_list.**SensorList**
    Bases: taniumpy.object_types.base.BaseType

taniumpy.object_types.sensor_query module

class taniumpy.object_types.sensor_query.**SensorQuery**
    Bases: taniumpy.object_types.base.BaseType

taniumpy.object_types.sensor_query_list module

class taniumpy.object_types.sensor_query_list.**SensorQueryList**
    Bases: taniumpy.object_types.base.BaseType

taniumpy.object_types.sensor_string_hints module

class taniumpy.object_types.sensor_string_hints.**SensorStringHints**
    Bases: taniumpy.object_types.base.BaseType

taniumpy.object_types.sensor_subcolumn module

class taniumpy.object_types.sensor_subcolumn.**SensorSubcolumn**
    Bases: taniumpy.object_types.base.BaseType

taniumpy.object_types.sensor_subcolumn_list module

class taniumpy.object_types.sensor_subcolumn_list.**SensorSubcolumnList**
    Bases: taniumpy.object_types.base.BaseType

taniumpy.object_types.sensor_types module

taniumpy.object_types.soap_error module

class taniumpy.object_types.soap_error.**SoapError**
    Bases: taniumpy.object_types.base.BaseType

taniumpy.object_types.system_setting module

class taniumpy.object_types.system_setting.**SystemSetting**
    Bases: taniumpy.object_types.base.BaseType

taniumpy.object_types.system_settings_list module

class taniumpy.object_types.system_settings_list.**SystemSettingsList**
    Bases: taniumpy.object_types.base.BaseType

taniumpy.object_types.system_status_aggregate module

class taniumpy.object_types.system_status_aggregate.**SystemStatusAggregate**
    Bases: taniumpy.object_types.base.BaseType

taniumpy.object_types.system_status_list module

class taniumpy.object_types.system_status_list.**SystemStatusList**
    Bases: taniumpy.object_types.base.BaseType

taniumpy.object_types.upload_file module

class taniumpy.object_types.upload_file.**UploadFile**
    Bases: taniumpy.object_types.base.BaseType

taniumpy.object_types.upload_file_list module

class taniumpy.object_types.upload_file_list.**UploadFileList**
    Bases: taniumpy.object_types.base.BaseType

taniumpy.object_types.upload_file_status module

class taniumpy.object_types.upload_file_status.**UploadFileStatus**
    Bases: taniumpy.object_types.base.BaseType

taniumpy.object_types.user module

class taniumpy.object_types.user.**User**
    Bases: taniumpy.object_types.base.BaseType

taniumpy.object_types.user_list module

class taniumpy.object_types.user_list.**UserList**
    Bases: [taniumpy.object_types.base.BaseType](#)

taniumpy.object_types.user_permissions module

class taniumpy.object_types.user_permissions.**UserPermissions**
    Bases: [taniumpy.object_types.base.BaseType](#)

taniumpy.object_types.user_role module

class taniumpy.object_types.user_role.**UserRole**
    Bases: [taniumpy.object_types.base.BaseType](#)

taniumpy.object_types.user_role_list module

class taniumpy.object_types.user_role_list.**UserRoleList**
    Bases: [taniumpy.object_types.base.BaseType](#)

taniumpy.object_types.version_aggregate module

class taniumpy.object_types.version_aggregate.**VersionAggregate**
    Bases: [taniumpy.object_types.base.BaseType](#)

taniumpy.object_types.version_aggregate_list module

class taniumpy.object_types.version_aggregate_list.**VersionAggregateList**
    Bases: [taniumpy.object_types.base.BaseType](#)

taniumpy.object_types.white_listed_url module

class taniumpy.object_types.white_listed_url.**WhiteListedUrl**
    Bases: [taniumpy.object_types.base.BaseType](#)

taniumpy.object_types.white_listed_url_list module

class taniumpy.object_types.white_listed_url_list.**WhiteListedUrlList**
    Bases: [taniumpy.object_types.base.BaseType](#)

taniumpy.object_types.xml_error module

class taniumpy.object_types.xml_error.**XmlError**
    Bases: [taniumpy.object_types.base.BaseType](#)

1.8 xmltodict module

Makes working with XML feel like you are working with JSON

xmltodict.**parse**(*xml_input*, *encoding=None*, *expat=<module* *'xml.parsers.expat'* *from* *'/Library/Python/2.7/site-packages/_xmlplus/parsers/expat.pyc'>*, *pro-cess_namespaces=False*, *namespace_separator=':'*, ***kwargs*)
Parse the given XML input and convert it into a dictionary.

xml_input can either be a *string* or a file-like object.

If *xml_attribs* is *True*, element attributes are put in the dictionary among regular child elements, using @ as a prefix to avoid collisions. If set to *False*, they are just ignored.

Simple example:

```
>>> import xmltodict
>>> doc = xmltodict.parse("""
... <a prop="x">
...   <b>1</b>
...   <b>2</b>
... </a>
... """)
>>> doc['a']['@prop']
u'x'
>>> doc['a']['b']
[u'1', u'2']
```

If *item_depth* is *0*, the function returns a dictionary for the root element (default behavior). Otherwise, it calls *item_callback* every time an item at the specified depth is found and returns *None* in the end (streaming mode).

The callback function receives two parameters: the *path* from the document root to the item (name-attribs pairs), and the *item* (dict). If the callback's return value is false-ish, parsing will be stopped with the ParsingInterrupted exception.

Streaming example:

```
>>> def handle(path, item):
...     print 'path:%s item:%s' % (path, item)
...     return True
...
>>> xmltodict.parse("""
... <a prop="x">
...   <b>1</b>
...   <b>2</b>
... </a>""", item_depth=2, item_callback=handle)
path:[(u'a', {u'prop': u'x'}), (u'b', None)] item:1
path:[(u'a', {u'prop': u'x'}), (u'b', None)] item:2
```

The optional argument *postprocessor* is a function that takes *path*, *key* and *value* as positional arguments and returns a new *(key, value)* pair where both *key* and *value* may have changed. Usage example:

```
>>> def postprocessor(path, key, value):
...     try:
...         return key + ':int', int(value)
...     except (ValueError, TypeError):
...         return key, value
>>> xmltodict.parse('<a><b>1</b><b>2</b><b>x</b></a>',
```

```
...                     postprocessor=postprocessor)
OrderedDict([(u'a', OrderedDict([(u'b:int', [1, 2]), (u'b', u'x')]))])
```

You can pass an alternate version of *expat* (such as *defusedexpat*) by using the *expat* parameter. E.g:

```
>>> import defusedexpat
>>> xmltodict.parse('<a>hello</a>', expat=defusedexpat.pyexpat)
OrderedDict([(u'a', u'hello')])
```

xmltodict.**unparse**(*input_dict*, *output=None*, *encoding='utf-8'*, *full_document=True*, ***kwargs*)
> Emit an XML document for the given *input_dict* (reverse of *parse*).

> The resulting XML document is returned as a string, but if *output* (a file-like object) is specified, it is written there instead.

> Dictionary keys prefixed with *attr_prefix* (default=''@') are interpreted as XML node attributes, whereas keys equal to 'cdata_key' (default=''#text'') are treated as character data.

> The *pretty* parameter (default='False') enables pretty-printing. In this mode, lines are terminated with 'n' and indented with 't', but this can be customized with the *newl* and *indent* parameters.

1.9 ddt module

ddt.**data**(**values*)
> Method decorator to add to your test methods.

> Should be added to methods of instances of unittest.TestCase.

ddt.**ddt**(*cls*)
> Class decorator for subclasses of unittest.TestCase.

> Apply this decorator to the test case class, and then decorate test methods with @data.

> For each method decorated with @data, this will effectively create as many methods as data items are passed as parameters to @data.

> The names of the test methods follow the pattern original_test_name_{ordinal}_{data}. ordinal is the position of the data argument, starting with 1.

> For data we use a string representation of the data value converted into a valid python identifier. If data.__name__ exists, we use that instead.

> For each method decorated with @file_data('test_data.json'), the decorator will try to load the test_data.json file located relative to the python file containing the method that is decorated. It will, for each test_name key create as many methods in the list of values from the data key.

ddt.**file_data**(*value*)
> Method decorator to add to your test methods.

> Should be added to methods of instances of unittest.TestCase.

> value should be a path relative to the directory of the file containing the decorated unittest.TestCase. The file should contain JSON encoded data, that can either be a list or a dict.

> In case of a list, each value in the list will correspond to one test case, and the value will be concatenated to the test method name.

> In case of a dict, keys will be used as suffixes to the name of the test case, and values will be fed as test data.

ddt.**is_hash_randomized**()

ddt.**mk_test_name**(*name*, *value*, *index=0*)
> Generate a new name for a test case.
>
> It will take the original test name and append an ordinal index and a string representation of the value, and convert the result into a valid python identifier by replacing extraneous characters with _.
>
> If hash randomization is enabled (a feature available since 2.7.3/3.2.3 and enabled by default since 3.3) and a "non-trivial" value is passed this will omit the name argument by default. Set *PYTHONHASHSEED* to a fixed value before running tests in these cases to get the names back consistently or use the *__name__* attribute on data values.
>
> A "trivial" value is a plain scalar, or a tuple or list consisting only of trivial values.

ddt.**unpack**(*func*)
> Method decorator to add unpack feature.

1.10 threaded_http module

Simple HTTP server for testing purposes

class threaded_http.**Handler**(*request*, *client_address*, *server*)
> Bases: `BaseHTTPServer.BaseHTTPRequestHandler`
>
> **__module__** = 'threaded_http'
>
> **do_GET**()
>
> **log_message**(*format*, **args*)

class threaded_http.**ThreadedHTTPServer**(*server_address*, *RequestHandlerClass*, *bind_and_activate=True*)
> Bases: `SocketServer.ThreadingMixIn`, `BaseHTTPServer.HTTPServer`
>
> Handle requests in a separate thread.
>
> **__module__** = 'threaded_http'

threaded_http.**threaded_http**(*host='localhost'*, *port=4443*, *verbosity=2*)
> establishes an HTTP server on host:port in a thread

INDICES AND TABLES

- *genindex*
- *modindex*
- *search*

Symbols

A