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# PyTan Documentation

*Release 1.0.0*

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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 `pytan_examples`
- For in depth API Documentation, refer to *pytan package*, specifically *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

```

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

```

### Output from Python Code

```

1  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

```

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 01:02:22,054 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\vl.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.g3dec8e
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
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-BE
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

```

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\SQL
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

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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.g3dec8e
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 machines)
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

```
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 controls
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

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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
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971 | Not Uninstallable
972 | Not Uninstallable
973 | Not Uninstallable
974 | Not Uninstallable", "37.0.2062.120
975 | 10.0
976 | 8.5.9
977 | 1.3
978 | 2.3.0
979 | 7.0
980 | 5.2.6
981 | 1.0
982 | 1.0
983 | 1.2
984 | 15
985 | 3.3.0
986 | 3.0
987 | 5.0
988 | 1.0
989 | 0.5.7
990 | 1308.22.2900.0
991 | 1.0.2
992 | 1.8
993 | None
994 | None
995 | 5.0.25
996 | 1.0
997 | 2.0
998 | 2.6.9
999 | 10.10
1000 | 2.84
1001 | 2.7.8
1002 | 2.0.1
1003 | 1.3.6
1004 | 1.1
1005 | 1.9
1006 | 14.4.6
1007 | 3.0
1008 | 4.0
1009 | 37.0.2062.120
1010 | 5.10
1011 | 1.4.55
1012 | 3.4.0 (build 4007)
```

1013	4.7
1014	1.6
1015	1.0
1016	7.0
1017	6.6
1018	7.0
1019	10.0
1020	1.6
1021	9.0
1022	5.0
1023	5.0
1024	1.4
1025	3.6
1026	2.5
1027	10.0
1028	5.7.6
1029	2.0-beta.6.4
1030	4.3.1
1031	14.4.6
1032	1.0
1033	33.1.1
1034	7.0
1035	6.19
1036	14.4.6
1037	1.1.0
1038	1.8
1039	10.8.0
1040	1.06
1041	5.4.0
1042	5.0
1043	Build 3065
1044	3.1
1045	1.06
1046	39.0.2171.71
1047	1.0
1048	10600
1049	10.10
1050	0.9.14.13.gba5645ad
1051	9.0
1052	9.0
1053	10.10
1054	1.3.44
1055	3.0
1056	2.7.8
1057	3.10
1058	1.0
1059	5.0.25
1060	2.0
1061	134.6
1062	10.0
1063	14.4.6
1064	None
1065	2.10.29
1066	14.4.6
1067	10.0.3
1068	14.4.6
1069	37.0.2062.120
1070	3.5

1071	2.0.0.20141103
1072	1.0
1073	5.0
1074	2.7.8
1075	7.0
1076	14.4.6
1077	8.1
1078	None
1079	1.0
1080	2.2.1
1081	8.1
1082	10600
1083	15
1084	14.4.6
1085	6.6
1086	10.10
1087	Adobe Photoshop Lightroom 5.6 [974614]
1088	6.1
1089	4.0
1090	10.10
1091	1.3
1092	None
1093	15.0.0
1094	8.1
1095	3.0.6
1096	4.3.1
1097	Version 2.2
1098	1.0.1
1099	9.0
1100	None
1101	5
1102	0.19.0.2.g3dec8e
1103	8.0
1104	13
1105	1.1
1106	10.0
1107	2.1.5
1108	14.4.6
1109	2.5
1110	10.0
1111	1.1.2
1112	7.1.0
1113	10.0
1114	1.0
1115	3.0
1116	2.0
1117	1.18
1118	3.8
1119	4.1
1120	2.5
1121	102
1122	1.10
1123	1.7
1124	25
1125	1.0
1126	2.1.0-50
1127	2.0.2
1128	9.0

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1129 | 1.0
1130 | 14.4.6
1131 | 1.8
1132 | 2.7.6
1133 | 2.2.9
1134 | None
1135 | 10.0
1136 | 13.0
1137 | 8.1
1138 | 10.0
1139 | 1.5.1
1140 | 8.4.19
1141 | 5.0
1142 | 7.0
1143 | 3.0
1144 | 14.4.6
1145 | 102
1146 | 327.5
1147 | 10.0
1148 | 6.1.1
1149 | 10600
1150 | 2.7
1151 | 14.4.6
1152 | 10.8
1153 | 1.0
1154 | 1.0.0
1155 | 81.0
1156 | 10600
1157 | 5.1.2
1158 | 1.0
1159 | 4.10.0
1160 | 4.1.1
1161 | 14.0
1162 | 1.0
1163 | 9.0
1164 | 6.5
1165 | 15.0.0
1166 | 3.0
1167 | 10.0
1168 | 1.0
1169 | 10.9
1170 | 10.10
1171 | 2.0
1172 | 4.5.2
1173 | 4.3.1
1174 | 1.2.1
1175 | 9.6
1176 | 8.0.25189
1177 | 1486.12
1178 | 3.2
1179 | 1.5
1180 | 1.2
1181 | 1.0
1182 | 15.0.0.239
1183 | 1.0
1184 | 1.0
1185 | 1.0.4
1186 | 10.0
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1187	5.7
1188	2.2.1
1189	14.4.6
1190	3.1.0
1191	5.2.6
1192	0.4.6
1193	14.2.0
1194	4.1
1195	2.5
1196	4.0
1197	5.2
1198	7.0
1199	12.0.1
1200	802
1201	1.0
1202	1.0
1203	10.0
1204	5.0
1205	9.0
1206	10.0.6
1207	10.10
1208	37.0.2062.120
1209	1.1.6
1210	14.4.6
1211	10.10.0
1212	6.6
1213	1408.13.2909.0
1214	Medium Hefson
1215	1.8
1216	2.0
1217	1.2
1218	None
1219	5.0
1220	1.06
1221	6.4
1222	10.8
1223	4.3.1
1224	None
1225	None
1226	4.0
1227	5.0
1228	1.8
1229	1.0
1230	None
1231	1.0
1232	1.1.6
1233	10.0
1234	6.3.4
1235	10.10
1236	1.0.6
1237	2.1
1238	6.1.0
1239	5.0
1240	1.0
1241	2.0
1242	14.4.1
1243	3.4.1
1244	2.0

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1245 | None
1246 | 1.0
1247 | 4.0
1248 | 2.8
1249 | 6
1250 | 2.3.6
1251 | 5.0
1252 | 8.0
1253 | 14.4.6
1254 | 102
1255 | 1.0
1256 | 5.0
1257 | 8.0
1258 | 10.10
1259 | 1.0
1260 | 37.0.2062.120
1261 | 10.0
1262 | 1.1.4
1263 | 8.1
1264 | 9.0
1265 | 1.5.1
1266 | 10.0
1267 | 14.4.6
1268 | 10.0
1269 | 12.0.0
1270 | 2.7
1271 | 2.0
1272 | 4.10.0
1273 | 10.10.1
1274 | 1.0
1275 | 14.4.6
1276 | 10.0
1277 | 5.5.1
1278 | 3.1.0
1279 | 14.4.6
1280 | 10600
1281 | 7.0
1282 | 1.0.5
1283 | 4.1
1284 | 1410.10.2910.1
1285 | 8.1
1286 | 8.0
1287 | 1.0
1288 | 2.2.0
1289 | r846
1290 | 10.4
1291 | 10.7
1292 | 1.0
1293 | 1.0"
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
1360 Is Uninstallable

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1361 Not Uninstallable
1362 Not Uninstallable
1363 Is Uninstallable
1364 Is Uninstallable
1365 Is Uninstallable
1366 Not Uninstallable
1367 Not Uninstallable
1368 Is Uninstallable
1369 Is Uninstallable
1370 Is Uninstallable
1371 Is Uninstallable
1372 Not Uninstallable
1373 Is Uninstallable
1374 Is Uninstallable
1375 Not Uninstallable
1376 Is Uninstallable
1377 Is Uninstallable
1378 Is Uninstallable
1379 Is Uninstallable
1380 Not Uninstallable
1381 Not Uninstallable
1382 Is Uninstallable
1383 Is Uninstallable
1384 Is Uninstallable
1385 Not Uninstallable
1386 Is Uninstallable
1387 Is Uninstallable
1388 Is Uninstallable
1389 Is Uninstallable
1390 Not Uninstallable", "9.0.30729.6161
1391 10.51.2500.0
1392 10.51.2500.0
1393 64-
1394 11.0.61030.0
1395 10.0.40219
1396 11.1.3128.0
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

```

```
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

```
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
331 | prez
332 | QuickTime Player
333 | KeyboardSetupAssistant
334 | nbagent
335 | Wi-Fi", "nothing
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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
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1025 2.5
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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
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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
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1066 | 10.0.3
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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
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1081 | 10600
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1083 | 14.4.6
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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
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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



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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

```

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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

```
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 01:02:42,814 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\vmtoolsd
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\vmtoolsd\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

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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

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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

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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

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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\GroupFilters
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

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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

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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\D11Tmp64
466 C:\Program Files\Microsoft SQL Server\MSSQL11.SQLEXPRESS\MSSQL\Binn\D11Tmp32
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

```
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 jttanium1.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\vmssc
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

```

```

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\vhsts
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\GroupFilters
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

```

```

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

```



```

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\D11Tmp64
475 C:\Program Files\Microsoft SQL Server\MSSQL11.SQLEXPRESS\MSSQL\Binn\D11Tmp32
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

```
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-directxdagnostic_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#\875c35969785fa170d186e7ca546ad
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_prn1x00x.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_75e11e57ed6df8b6a

```

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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-netfxsbsl0_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_MESSAGES
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-hls.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-asppbinaries_31bf3856ad364e35_6.1.7601.17514_none_eaa

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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
156 1,C:\Windows\winsxs\amd64_fdwsd_31bf3856ad364e35_6.1.7600.16385_none_d99d751adbd6df3c
157 1,C:\Windows\SysWOW64\migration\WSMT\rras\dlmanifests\Microsoft-Windows-RasServer-MigPlugin
158 1,C:\Windows\winsxs\x86_microsoft-windows-p..soundservice-server_31bf3856ad364e35_6.1.7600.16385_non
159 1,C:\Windows\assembly\NativeImages_v4.0.30319_32\System.Runtimeb92aa12#
160 1,C:\Windows\winsxs\amd64_microsoft-windows-t..n-nonmsil.resources_31bf3856ad364e35_6.1.7601.17514_e
161 1,C:\Windows\assembly\GAC_MSIL\System.Runtime.Serialization.Formatteratters.Soap\2.0.0.0__b03f5f7f11d50a3
162 1,C:\Windows\winsxs\amd64_microsoft-windows-scrnsave_31bf3856ad364e35_6.1.7600.16385_none_3d3492aaf4
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
165 1,C:\pytan
166 1,C:\Windows\winsxs\amd64_microsoft-windows-m..ds-ce-rll.resources_31bf3856ad364e35_6.1.7600.16385_e
167 1,C:\Program Files (x86)\Tanium\Tanium Client\Downloads\Action_24\grep\share\locale\ga\LC_MESSAGES
168 1,C:\Windows\winsxs\wow64_microsoft-windows-i..isapifilterbinaries_31bf3856ad364e35_6.1.7600.16385_n
169 1,C:\Windows\winsxs\amd64_microsoft-windows-d..anagement.resources_31bf3856ad364e35_6.1.7600.16385_e
170 1,C:\Windows\winsxs\wow64_microsoft-windows-p..ll-preloc.resources_31bf3856ad364e35_6.1.7600.16385_e
171 1,C:\Windows\winsxs\x86_microsoft-windows-msmpeg2enc_31bf3856ad364e35_6.1.7601.17514_none_0b450351a4
172 1,C:\Program Files (x86)\Tanium\Tanium Client\Downloads\Action_9035\grep\share\locale\be\LC_MESSAGES
173 1,C:\Windows\winsxs\wow64_microsoft-windows-i..l-keyboard-00010439_31bf3856ad364e35_6.1.7601.17514_n
174 1,C:\Windows\winsxs\amd64_microsoft-windows-d2d.resources_31bf3856ad364e35_7.1.7601.16492_de-de_3dc5
175 1,C:\Users\Jim Olsen\AppData\Local\Google\Chrome\User Data\Default\Extensions\apdf1lckaaahabafndbhiea
176 1,C:\Windows\winsxs\amd64_microsoft-windows-k..distribution-center_31bf3856ad364e35_6.1.7601.18658_n
177 1,C:\Program Files (x86)\Tanium\Tanium Client\Downloads\Action_63\grep\share\locale\nb\LC_MESSAGES
178 1,C:\Windows\Microsoft.NET\assembly\GAC_MSIL\System.Workflow.ComponentModel\v4.0_4.0.0.0__31bf3856ad
179 1,C:\Windows\winsxs\amd64_microsoft-windows-f..uster-rhs.resources_31bf3856ad364e35_6.1.7600.16385_e
180 1,C:\Python27\Lib\multiprocessing\dummy
181 1,C:\Windows\winsxs\amd64_microsoft-windows-windowscodec_31bf3856ad364e35_7.1.7601.16492_none_e5bfce
182 1,C:\Windows\System32\migration
183 1,C:\Windows\winsxs\x86_microsoft-windows-media-mp3acm.resources_31bf3856ad364e35_6.1.7600.16385_en-
184 1,C:\Windows\assembly\GAC_MSIL\Microsoft.SqlServer.Smo\10.0.0.0__89845dcd8080cc91
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_
191 1,C:\Program Files (x86)\Microsoft SQL Server\110\Tools\Binn\ManagementStudio\SqlWorkbenchProjectIte
192 1,C:\Windows\winsxs\x86_microsoft-windows-s..t-tracker.resources_31bf3856ad364e35_6.1.7600.16385_en-
193 1,C:\Windows\winsxs\amd64_wcf-icardres_dll_vista_31bf3856ad364e35_6.1.7601.22733_none_6fa639389aa684
194 1,C:\Windows\Microsoft.NET\assembly\GAC_MSIL\System.Linq.Queryable
195 1,C:\Windows\assembly\NativeImages_v4.0.30319_64\System.Window0de890be#
196 1,C:\Windows\winsxs\amd64_adfs-upgrademb-files_31bf3856ad364e35_6.1.7600.16385_none_fbd0c34fcbe686a6
197 1,C:\Windows\winsxs\amd64_microsoft-windows-cryptnet-dll_31bf3856ad364e35_6.1.7601.22380_none_757916
198 1,C:\Windows\winsxs\x86_microsoft-windows-m..river-rll.resources_31bf3856ad364e35_6.1.7600.16385_en-
199 1,C:\Windows\Microsoft.NET\assembly\GAC_MSIL\System.Linq.Parallel\v4.0_4.0.0.0__b03f5f7f11d50a3a
200 1,C:\Windows\winsxs\amd64_mdmsun1.inf_31bf3856ad364e35_6.1.7600.16385_none_1f7c98965ef22a0b
201 1,C:\Program Files (x86)\Tanium\Tanium Client\Downloads\Action_9025\grep\share\locale\cs\LC_MESSAGES
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
205 1,C:\Windows\assembly\NativeImages_v2.0.50727_64\MSBuild
206 1,C:\Windows\Microsoft.NET\assembly\GAC_32\WebDev.WebHost40

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207 1,C:\Windows\winsxs\x86_microsoft-windows-v..kprovider.resources_31bf3856ad364e35_6.1.7600.16385_en-
208 1,C:\Program Files (x86)\Tanium\Tanium Client\Downloads\Action_35\grep\share\locale\sr\LC_MESSAGES
209 1,C:\Windows\assembly\NativeImages_v2.0.50727_32\System.Data.Entity
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
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376 1,C:\Windows\System32\en-US\Licenses\eval\ServerEssentialAdditional
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582 1,C:\Windows\winsxs\msil_microsoft.build.engine_b03f5f7f11d50a3a_6.1.7601.17514_none_0cfd67f8cb24384
583 1,C:\Windows\Microsoft.NET\assembly\GAC_MSIL\PresentationBuildTasks
584 1,C:\Windows\winsxs\x86_microsoft-windows-comctl32-v5.resources_31bf3856ad364e35_6.1.7600.16385_da-d
585 1,C:\Windows\winsxs\amd64_microsoft-windows-d..cking-adm.resources_31bf3856ad364e35_6.1.7600.16385_e
586 1,C:\Windows\SysWOW64\migration\WSMT\rras\dlmanifests
587 1,C:\Windows\winsxs\amd64_microsoft-windows-a..ence-mitigations-c3_31bf3856ad364e35_6.1.7601.18076_n
588 1,C:\Program Files\Common Files\Microsoft Shared\ink\ar-SA
589 1,C:\Windows\System32\DriverStore\FileRepository\mdmgl001.inf_amd64_neutral_9209e816461a1a73
590 1,C:\Program Files (x86)\Tanium\Tanium Client\Downloads\Action_63\grep\share\locale\hr\LC_MESSAGES
591 1,C:\Windows\winsxs\amd64_microsoft-windows-ie-fl2_31bf3856ad364e35_11.2.9600.17041_none_d0392feefd4
592 1,C:\Windows\assembly\NativeImages_v2.0.50727_64\SecurityAuditPolicis#
593 1,C:\Windows\assembly\GAC_MSIL\Microsoft.SqlServer.GridControl.resources\11.0.0.0_ko_89845dcd8080cc9
594 1,C:\Windows\System32\DriverStore\FileRepository\hdaudio.inf_amd64_neutral_ce7bc199c85ae0a0
595 1,C:\Windows\winsxs\amd64_netfx-system.management_b03f5f7f11d50a3a_6.1.7601.17514_none_f6397b438cd5e
596 1,C:\Windows\winsxs\amd64_microsoft-windows-w..enger-adm.resources_31bf3856ad364e35_6.1.7600.16385_e
597 1,C:\Windows\winsxs\x86_microsoft-windows-m..ds-ce-rll.resources_31bf3856ad364e35_6.1.7600.16385_en-
598 1,C:\Windows\winsxs\amd64_microsoft-windows-t..cheduler-apis-proxy_31bf3856ad364e35_6.1.7600.16385_n
599 1,C:\Windows\inf\StarterGPOs\{9C03F88D-8608-44B7-A3E7-7316D1CAC152}
600 1,C:\Windows\winsxs\amd64_microsoft-windows-bcrypt-primitives-dll_31bf3856ad364e35_6.1.7601.17514_no
601 1,C:\Windows\System32\DriverStore\FileRepository\prnep00c.inf_amd64_neutral_f0d9ddf52f04765c
602 1,C:\Program Files (x86)\Tanium\Tanium Client\Downloads\Action_47\grep\share\locale\be\LC_MESSAGES
603 1,C:\Windows\winsxs\amd64_microsoft-windows-o..s-service.resources_31bf3856ad364e35_6.1.7600.16385_e
604 1,C:\Windows\assembly\NativeImages_v4.0.30319_32\Microsoft.V48e48ead#
605 1,C:\Windows\winsxs\wow64_windowssearchengine.resources_31bf3856ad364e35_7.0.7600.16385_en-us_1eb044
606 1,C:\Program Files (x86)\Tanium\Tanium Client\Downloads\Action_23\grep\share\locale\es\LC_MESSAGES
607 1,C:\Python27\Lib\sqlite3\test
608 1,C:\Windows\winsxs\x86_microsoft-windows-wdc-events_31bf3856ad364e35_6.1.7600.16385_none_d3d56c8ea9
609 1,C:\Windows\winsxs\amd64_microsoft-windows-b..vironment-os-loader_31bf3856ad364e35_6.1.7601.17514_n
610 1,C:\Program Files (x86)\Tanium\Tanium Client\Downloads\Action_48\grep\share\locale\af\LC_MESSAGES
611 1,C:\Program Files (x86)\Microsoft SQL Server\110\Tools\Binn\ManagementStudio\SqlWorkbenchProjectIte
612 1,C:\Windows\winsxs\amd64_netb57va.inf.resources_31bf3856ad364e35_6.1.7600.16385_en-us_33385dd47fa88

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613 1,C:\Windows\System32\DriverStore\FileRepository\netbc664.inf_amd64_neutral_673d3dfb961e9b17
614 1,C:\Windows\assembly\NativeImages_v4.0.30319_32\System.Drawing
615 1,C:\Windows\winsxs\wow64_microsoft-windows-powershell_31bf3856ad364e35_6.1.7601.17514_none_65ab62a5
616 1,C:\Windows\winsxs\amd64_netfx-dfdll_dll_b03f5f7f11d50a3a_6.1.7601.22794_none_fe39bfb4165583e2
617 1,C:\Windows\winsxs\amd64_microsoft-windows-wpd-portabledevicesqm_31bf3856ad364e35_6.1.7601.17514_no
618 1,C:\Windows\winsxs\amd64_microsoft-windows-dfscclient-netapi_31bf3856ad364e35_6.1.7600.16385_none_bd
619 1,C:\Windows\winsxs\amd64_microsoft-windows-ie-sysprep_31bf3856ad364e35_8.0.7600.16385_none_924152af
620 1,C:\Windows\winsxs\amd64_microsoft-windows-i..er-engine.resources_31bf3856ad364e35_6.1.7601.17514_j
621 1,C:\Windows\System32\DriverStore\FileRepository\vhdmp.inf_amd64_neutral_c3910bbf4fbccf97
622 1,C:\Windows\assembly\GAC_MSIL\Microsoft.SqlServer.SqlClrProvider\10.0.0.0__89845dcd8080cc91
623 1,C:\Program Files\Tanium\Tanium Server\plugins\console\Dashboards
624 1,C:\Windows\winsxs\x86_microsoft-windows-g..licymaker.resources_31bf3856ad364e35_6.1.7600.16385_en-
625 1,C:\Program Files (x86)\Tanium\Tanium Client\Downloads\Action_37\grep\share\locale\pt_BR\LC_MESSAGES
626 1,C:\Windows\assembly\NativeImages_v2.0.50727_32\Microsoft.SqlServer#\c988156754e88888de422478835f01
627 1,C:\Windows\System32\DriverStore\FileRepository\faxcn002.inf_amd64_neutral_3d392ccc357e04db
628 1,C:\Windows\winsxs\x86_wcf-system.runtime.serialization_b03f5f7f11d50a3a_6.1.7601.18532_none_db9f33
629 1,C:\Windows\winsxs\amd64_microsoft.windows.s...smart_card_library_31bf3856ad364e35_6.1.7600.16385_n
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633 1,C:\Windows\winsxs\wow64_microsoft-windows-iis-ftpvc.resources_31bf3856ad364e35_6.1.7600.16385_en-
634 1,C:\Windows\Microsoft.NET\assembly\GAC_32\ISymWrapper\v4.0.4.0.0__b03f5f7f11d50a3a
635 1,C:\Windows\winsxs\x86_netfx35ling-vb_compiler_orcas_31bf3856ad364e35_6.1.7601.17514_none_9809be824
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644 1,C:\Windows\winsxs\x86_microsoft-windows-comdlg32.resources_31bf3856ad364e35_6.1.7601.17514_pt-pt_e
645 1,C:\Windows\Microsoft.NET\assembly\GAC_MSIL\Microsoft.SqlServer.WebServiceTask
646 1,C:\Windows\winsxs\msil_microsoft.windows.smc_31bf3856ad364e35_6.1.7601.17514_none_ab698c2bf8d20bb5
647 1,C:\Windows\winsxs\amd64_server-help-hls.dmi.start.resources_31bf3856ad364e35_6.1.7600.16385_en-us_
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650 1,C:\Windows\winsxs\amd64_netfx-system.directoryservices.protocols_b03f5f7f11d50a3a_6.1.7600.16385_n
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652 1,C:\Windows\System32\en-US\Licenses\OEM\ServerForSBSolutions
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654 1,C:\Windows\winsxs\amd64_microsoft.windows.c..-controls.resources_6595b64144ccf1df_5.82.7600.16385_
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666 1,C:\Windows\System32\DriverStore\FileRepository\mdmmotou.inf_amd64_neutral_eb1d978f38f35bca
667 1,C:\Windows\assembly\GAC_MSIL\PresentationBuildTasks
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669 1,C:\Windows\winsxs\x86_microsoft-windows-d..asks-sync.resources_31bf3856ad364e35_6.1.7600.16385_en-
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672 1,C:\Program Files (x86)\Tanium\Tanium Client\Downloads\Action_9026\grep\share\locale\sr\LC_MESSAGES
673 1,C:\Windows\winsxs\x86_microsoft-windows-controls.resources_6595b64144ccf1df_6.0.7600.16385_bg-
674 1,C:\Windows\winsxs\amd64_nulhpopr.inf.resources_31bf3856ad364e35_6.1.7600.16385_en-us_9bbc515b6b831
675 1,C:\Windows\assembly\NativeImages_v4.0.30319_32\Microsoft.S63fb36fa#
676 1,C:\Windows\winsxs\amd64_microsoft-windows-directx-directinput_31bf3856ad364e35_6.1.7600.16385_none
677 1,C:\Windows\Microsoft.NET\assembly\GAC_MSIL\System.Runtime.InteropServices\v4.0.4.0.0__b03f5f7f11
678 1,C:\Windows\winsxs\amd64_prnca00x.inf.resources_31bf3856ad364e35_6.1.7600.16385_en-us_20983167eda75
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681 1,C:\Windows\winsxs\amd64_microsoft-windows-e..enforcement-client_31bf3856ad364e35_6.1.7600.16385_n
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683 1,C:\Windows\assembly\NativeImages_v4.0.30319_32\Microsoft.S0677a649#\1084b6e3c3f1ca2e0c25c6526e6265
684 1,C:\Windows\Microsoft.NET\assembly\GAC_MSIL\System.ServiceModel.Activation
685 1,C:\Windows\winsxs\x86_microsoft-windows-a..managerui.resources_31bf3856ad364e35_6.1.7600.16385_en-
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687 1,C:\Windows\SysWOW64\config\systemprofile\AppData\Local\Microsoft\Windows\History
688 1,C:\Program Files\Tanium\Tanium Server\CertificateBackup2014-11-17-11-17-33
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696 1,C:\Users\Jim Olsen\AppData\LocalLow\Microsoft\Windows\AppData
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724 1,C:\Windows\assembly\GAC_MSIL\Microsoft.Vsa.Vb.CodeDOMProcessor
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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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739 1,C:\Windows\winsxs\amd64_wcf-infocardcpl_cpl_31bf3856ad364e35_6.1.7600.16385_none_f578352b168f8a4a
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771 1,C:\Program Files (x86)\Tanium\Tanium Client\Downloads\Action_9072
772 1,C:\Program Files (x86)\Tanium\Tanium Client\Downloads\Action_9071
773 1,C:\Program Files (x86)\Tanium\Tanium Client\Downloads\Action_9070
774 1,C:\Program Files (x86)\Microsoft Visual Studio 10.0\Common7\IDE\CommonExtensions\Microsoft\VB\Lang
775 1,C:\Windows\winsxs\amd64_microsoft-windows-scripting-jscript_31bf3856ad364e35_8.0.7601.17866_none_f
776 1,C:\Windows\assembly\NativeImages_v4.0.30319_32\Microsoft.Sdc7a71f3#\14662593f5706e2a4e0656c44910b5
777 1,C:\Program Files (x86)\Tanium\Tanium Client\Downloads\Action_9042
778 1,C:\Program Files (x86)\Tanium\Tanium Client\Downloads\Action_9041
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
782 1,C:\Windows\winsxs\x86_wcf-m_svc_mod_end_perf_vrg_31bf3856ad364e35_6.1.7600.16385_none_cc6e74aee7e
783 1,C:\Windows\winsxs\msil_dfsmgmt_31bf3856ad364e35_6.1.7601.21844_none_90f2cf948a12956a
784 1,C:\Program Files (x86)\Microsoft SQL Server\110\DAC\bin\1033
785 1,C:\Windows\winsxs\x86_microsoft-windows-e..yphenation.binaries_31bf3856ad364e35_6.3.9600.16428_non
786 1,C:\Windows\winsxs\amd64_microsoft-windows-ncrypt-dll_31bf3856ad364e35_6.1.7601.22099_none_bc3c57b2

```



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787 1,C:\Windows\winsxs\amd64_server-help-hls.tpmadmin.resources_31bf3856ad364e35_6.1.7600.16385_en-us_8
788 1,C:\Windows\winsxs\amd64_microsoft-windows-t..r-tlntsvr.resources_31bf3856ad364e35_6.1.7600.16385_e
789 1,C:\Program Files (x86)\Tanium\Tanium Client\Downloads\Action_23\grep\share\locale\id\LC_MESSAGES
790 1,C:\Program Files (x86)\Tanium\Tanium Client\Downloads\Action_48\grep\share\locale\sl\LC_MESSAGES
791 1,C:\Windows\winsxs\x86_microsoft-windows-diantz_31bf3856ad364e35_6.1.7600.16385_none_a69c6a8f23f521
792 1,C:\Windows\winsxs\amd64_microsoft-windows-ie-behaviors.resources_31bf3856ad364e35_11.2.9600.16428
793 1,C:\Windows\assembly\NativeImages_v4.0.30319_64\System.Xaml.Hosting
794 1,C:\Windows\winsxs\amd64_microsoft-windows-font-bitmap-fixed_31bf3856ad364e35_6.1.7600.16385_none_d
795 1,C:\Windows\winsxs\wow64_microsoft-windows-audio-audiocore_31bf3856ad364e35_6.1.7601.18619_none_df1
796 1,C:\Windows\Microsoft.NET\assembly\GAC_MSIL\PresentationFramework.Aero\v4.0.4.0.0__31bf3856ad364e
797 1,C:\Windows\winsxs\amd64_microsoft-windows-b..vironment-os-loader_31bf3856ad364e35_6.1.7601.22780_n
798 1,C:\Windows\System32\DriverStore\FileRepository\netathrx.inf_amd64_neutral_905772087ff288af
799 1,C:\Windows\assembly\NativeImages_v4.0.30319_64\System.Runt93d54979#
800 1,C:\Windows\winsxs\x86_microsoft-windows-qedit.resources_31bf3856ad364e35_6.1.7600.16385_en-us_1c74
801 1,C:\Windows\winsxs\amd64_microsoft-windows-p..unterinfrastructure_31bf3856ad364e35_6.1.7600.16385_n
802 1,C:\Program Files (x86)\Tanium\Tanium Client\Downloads\Action_9042\grep\share\locale\sv\LC_MESSAGES
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807 1,C:\Windows\assembly\NativeImages_v4.0.30319_32\DTSTInstall\2f59443741e5c4caa4994e63993688d3
808 1,C:\Windows\Help\Windows\en-US
809 1,C:\Windows\winsxs\amd64_microsoft-windows-i..onal-codepage-28592_31bf3856ad364e35_6.1.7600.16385_n
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812 1,C:\Program Files\Common Files\SpeechEngines\Microsoft
813 1,C:\Windows\winsxs\x86_microsoft-windows-fmifs_31bf3856ad364e35_6.1.7600.16385_none_56e4c7a892each3
814 1,C:\ProgramData\Microsoft\Windows\Ringtones
815 1,C:\Windows\assembly\NativeImages_v4.0.30319_32\Microsoft.Se29577f5#
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817 1,C:\Windows\assembly\NativeImages_v2.0.50727_32\Accessibility\0483c93466914f3fbd5b44454b0c8a98
818 1,C:\Windows\winsxs\x86_microsoft-windows-servicingstack_31bf3856ad364e35_6.1.7600.16385_none_0935b7
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822 1,C:\Windows\winsxs\x86_netfx-mscorwks_dll_b03f5f7f11d50a3a_6.1.7601.17514_none_06b9b03ceb862f7d
823 1,C:\Windows\ServiceProfiles\LocalService\AppData\Roaming\Microsoft\Network\Connections
824 1,C:\ProgramData\Microsoft\Windows\Start Menu\Programs\Google Chrome
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826 1,C:\Windows\winsxs\amd64_microsoft-windows-d..fontcache.resources_31bf3856ad364e35_7.1.7601.16492_c
827 1,C:\Windows\Microsoft.NET\assembly\GAC_MSIL\Microsoft.VisualStudio.Language.CallHierarchy\v4.0.10.0
828 1,C:\Windows\winsxs\amd64_server-help-chm.uim_snis.resources_31bf3856ad364e35_6.1.7600.16385_en-us_4
829 1,C:\Windows\winsxs\amd64_microsoft-windows-ntdll_31bf3856ad364e35_6.1.7601.18247_none_b6df585112e2f
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832 1,C:\Windows\winsxs\amd64_microsoft-windows-storport_31bf3856ad364e35_6.1.7601.18386_none_85588aa447
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834 1,C:\Windows\assembly\NativeImages_v4.0.30319_64\Microsoft.Sfab66633#
835 1,C:\Windows\assembly\GAC_64\Microsoft.Security.ApplicationId.PolicyManagement.PolicyEngineApi.Inter
836 1,C:\Windows\winsxs\amd64_wpf-presentationhostdll_31bf3856ad364e35_6.1.7601.17514_none_ce3172a8369ec
837 1,C:\Windows\Microsoft.NET\Framework\v2.0.50727\ASP.NETWebAdminFiles\Security\Users
838 1,C:\Windows\winsxs\x86_microsoft.windows.c..-controls.resources_6595b64144ccf1df_5.82.7600.16385_sl
839 1,C:\Program Files (x86)\Tanium\Tanium Client\Downloads\Action_9035\grep\share\locale\zh_TW
840 1,C:\Program Files (x86)\Tanium\Tanium Client\Downloads\Action_63\grep\share\locale\hu\LC_MESSAGES
841 1,C:\Windows\assembly\NativeImages_v2.0.50727_64\Narrator
842 1,C:\Windows\assembly\GAC_MSIL\Microsoft.PowerShell.ConsoleHost\1.0.0.0__31bf3856ad364e35
843 1,C:\Windows\System32\DriverStore\FileRepository\clusdisk.inf_amd64_neutral_517fb8e5b41452c5
844 1,C:\Windows\winsxs\x86_microsoft-windows-a..tigations.resources_31bf3856ad364e35_6.1.7601.22248_zh-

```

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846 1,C:\Windows\winsxs\amd64_microsoft-windows-s.-vbscript.resources_31bf3856ad364e35_6.1.7600.16385_e
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848 1,C:\Windows\assembly\NativeImages_v2.0.50727_32\EnvDTE90\d45d934fb4f734451fae61288d59ee9b
849 1,C:\Windows\winsxs\amd64_microsoft-windows-oleaccrc.resources_31bf3856ad364e35_6.1.7600.16385_en-us
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851 1,C:\Windows\Microsoft.NET\assembly\GAC_MSIL\System.ServiceModel.Primitives
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853 1,C:\Windows\winsxs\x86_caspol_b03f5f7f11d50a3a_6.1.7601.22733_none_29677a47c628119e
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867 1,C:\Windows\winsxs\amd64_microsoft-windows-winsrv-adm.resources_31bf3856ad364e35_6.1.7600.16385_en-
868 1,C:\Windows\winsxs\x86_microsoft-windows-m..al-backcompat-tlb28_31bf3856ad364e35_6.1.7601.22012_non
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874 1,C:\Windows\winsxs\amd64_microsoft-windows-scripting-vbscript_31bf3856ad364e35_11.2.9600.17280_none
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880 1,C:\Windows\winsxs\amd64_microsoft-windows-wmi-core-svc_31bf3856ad364e35_6.1.7601.17514_none_fed8c1
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882 1,C:\Windows\winsxs\amd64_microsoft-windows-e..rformancemonitoring_31bf3856ad364e35_6.1.7600.16385_n
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-
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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
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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
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901 1,C:\Program Files (x86)\Tanium\Tanium Client\Downloads\Action_64\grep\share\locale\pt_BR\LC_MESSAGE
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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
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924 1,C:\Windows\Microsoft.NET\assembly\GAC_MSIL\System.IdentityModel.Services\v4.0.4.0.0.0__b77a5c56193
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932 1,C:\Windows\winsxs\amd64_microsoft-windows-e..yphenation.binaries_31bf3856ad364e35_6.3.9600.16428_n
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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
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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
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954 1,C:\Windows\System32\DriverStore\FileRepository\ehstorcertdrv.inf_amd64_neutral_2elcepcffae9c899a
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_q12300.inf.resources_31bf3856ad364e35_6.1.7600.16385_en-us_504a7062024cd6
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#\ldb0016f8610618627a09787dfeadf
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-wpfc corecomp.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..enticationbinaries_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#\db94f1de3f94749e5e9cbe3e00067e
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_9dbdfcbeee4e7d9
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

```

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

```

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:match_all_values, opt:ignore_case
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 01:06:54,330 INFO      question_progress: Results 0% (Get Operating System contains "Windows"
3 2014-12-07 01:06:59,349 INFO      question_progress: Results 100% (Get Operating System contains "Windows"
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"
```



```

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

```
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

```
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'
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 # create an IO stream to store CSV results to
49 out = io.BytesIO()
50
51 # call the write_csv() method to convert response to CSV and store it in out
52 response['question_results'].write_csv(out, response['question_results'])
53
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

```

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

```
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

```
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 controls
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(dirname=Program Files,regex=.*){}'

```

### 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

```
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

```
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 # call the handler with the get method, passing in kwargs for arguments
34 response = handler.get(**kwargs)
35
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

```

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', 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.saved_question_list.SavedQuestionList'>
4
5 print of response:
6 SavedQuestionList, 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": "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",
RandomSeed = SensorRandomScriptGetTidAndComputerID==Finner\\n\\tEnd=If\\nEnd=Function\\n#012;GetInstalledApplica
128             "script_type": "VBScript"
129         },
130         {
131             "_type": "query",
132             "platform": "Linux",
133             "script": "#!/bin/sh\\n# Detects which OS and if it is Linux then it will detect wh
134             "script_type": "UnixShell"
135         },
136         {
137             "_type": "query",
138             "platform": "Mac",
139             "script": "#!/bin/bash\\n\\nnotcontains() {\\n    string="$1";\\n    substrin
140             "script_type": "UnixShell"
141         }
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

```

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

```

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 kwargs["status"] = u'Leader'
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_status_list.SystemStatusList'>
4
5 print of response:
6 SystemStatusList, 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": "client_status",
14     "cache_row_id": 1,
15     "computer_id": "255106209",
16     "full_version": "6.0.314.1190",
17     "host_name": "jttanium1.localdomain",
18     "ipaddress_client": "172.16.31.128",
19     "ipaddress_server": "172.16.31.128",
20     "last_registration": "2014-12-07T06:08:41",
21     "port_number": 17473,
22     "protocol_version": 314,
23     "receive_state": "Previous Only",
24     "send_state": "Backward Only",
25     "status": "Leader"
26 }
```

## Get setting by name

Get a system setting 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 controls
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 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

```
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 kwargs["name"] = u'Tanium User'
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": 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 o
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

```

```
10 # Logging controls
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

```

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

```

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

```
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'package'
32 kwargs["name"] = u'Distribute Patch Tools'
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.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": "2642ab14c1dclb55df076a28a4eadac3e0cdb4b8810ca7eb6cd3a6d055b99f",
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": "CLOSED",
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": "CLOSED",
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": "CLOSED",
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": "CLOSED",
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": "CLOSED",
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": "CLOSED",
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": "CLOSED",
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": "CLOSED",
164     "download_seconds": 0,
165     "download_start_time": "2014-12-06T18:02:51",
166     "hash": "3c86d99f232755ba4aledcc4782cdd5ea9f637c2873b137931ced9b86c03f77a",
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": "CLOSED",
179         "download_seconds": 0,
180         "download_start_time": "2014-12-06T18:02:51",
181         "hash": "55ab7016031bb8a8c4a030e28b21d17fcfbale05d9e522d473a452daea79a5d2",
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": "CLOSED",
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": "CLOSED",
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

```
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": {

```



```

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

```

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 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

```

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

```

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 c
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

```
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

```
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
```



```

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 userroles

Get all user roles

## 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'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 ""
```

```

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

```

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
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

```

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

```

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

```
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: 657
7
8 length of response (number of objects returned):
9 657
10
11 print the first object returned in JSON format:
12 {
13     "_type": "sensor",
14     "cache_row_id": 0,
15     "category": "Reserved",
16     "description": "The recorded state of each action a client has taken recently in the form of id:st
17     "exclude_from_parse_flag": 1,
18     "hash": 1792443391,
19     "hidden_flag": 0,
20     "id": 1,
21     "ignore_case_flag": 1,
22     "max_age_seconds": 3600,
23     "name": "Action Statuses",
24     "queries": {
25         "_type": "queries",
26         "query": [
27             {
28                 "_type": "query",
29                 "platform": "Windows",
30                 "script": "Reserved",
31                 "script_type": "WMIQuery"
32             }
33         ]
34     },
35     "source_id": 0,
36     "string_count": 3354,
37     "value_type": "String"
38 }
```

## Get all whitelisted urls

Get all whitelisted urls

## 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 controls
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

```
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)

```

```
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": "CLOSED",
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

```
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

```
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["name"] = u'Distribute Tanium Standard Utilities'
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 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

```

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

```
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 machine
4 2014-12-07 01:09:03,728 INFO question_progress: Results 100% (Get Online = "True" from all machine
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

```
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["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

```
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

```
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

```



```

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\t
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

```

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 machine
4 2014-12-07 01:12:00,804 INFO      question_progress: Results 100% (Get Online = "True" from all machine
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

```

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 = "True
4 2014-12-07 01:12:10,968 INFO      question_progress: Results 100% (Get Computer Name and Online = "True
5 2014-12-07 01:12:10,983 INFO      handler: Report file '/var/folders/dk/vjrlr_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/vjrlr_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 # delete the object, we are done with it now
62
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: ['Admini
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 o
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

```

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

```

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

```

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
```

```

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/vjrlr_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                     }
31
```

```

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/vjrlr_c53yx6k6gzzp2bbt_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

```

```
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
```



```

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/vjrlr_c53yx6k6gyp2bbt_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                 }
101             ]
102         }
103     }
```

```

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

```
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'action'
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'action'
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'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/vjrlr_c53yx6k6gzzp2bbt_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

```
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'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/vjrlr_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": "&#039;=====\n&#039; Folder Name Se
49             "script_type": "VBScript"
50         },
51         {
52             "_type": "query",
53             "platform": "Linux",
54             "script": "#!/bin/bash\n#||dirname|||regex|||casesensitive|||global||\necho Windows
55             "script_type": "UnixShell"
56         },
57         {
58             "_type": "query",
59             "platform": "Mac",
60             "script": "#!/bin/bash\n#||dirname|||regex|||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

```

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/vjrlr_c53yx6k6g2p2bbt_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/vjrlr_c53yx6k6gxp2bbt_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

```

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'group'
39 get_kwargs["name"] = u'All Computers'
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'group'
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'group', '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 01:12:11,692 INFO handler: Deleted 'Group, id: 495'
3 2014-12-07 01:12:11,693 INFO handler: Report file '/var/folders/dk/vjrlr_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

```

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/vjrlr_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/vjrlr_c53yx6k6g2p2bbt_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

```
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/vjrlr_c53yx6k6g2p2bbt_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 Details)
3 2014-12-07 01:12:16,974 INFO question_progress: Results 0% (Get Computer Name and IP Route Details)
4 2014-12-07 01:12:22,001 INFO question_progress: Results 0% (Get Computer Name and IP Route Details)
5 2014-12-07 01:12:27,026 INFO question_progress: Results 0% (Get Computer Name and IP Route Details)
6 2014-12-07 01:12:32,054 INFO question_progress: Results 0% (Get Computer Name and IP Route Details)
7 2014-12-07 01:12:37,076 INFO question_progress: Results 0% (Get Computer Name and IP Route Details)
8 2014-12-07 01:12:42,103 INFO question_progress: Results 0% (Get Computer Name and IP Route Details)
9 2014-12-07 01:12:47,128 INFO question_progress: Results 0% (Get Computer Name and IP Route Details)
10 2014-12-07 01:12:52,156 INFO question_progress: Results 0% (Get Computer Name and IP Route Details)
11 2014-12-07 01:12:57,185 INFO question_progress: Results 0% (Get Computer Name and IP Route Details)
12 2014-12-07 01:13:02,213 INFO question_progress: Results 0% (Get Computer Name and IP Route Details)
13 2014-12-07 01:13:07,236 INFO question_progress: Results 50% (Get Computer Name and IP Route Details)
14 2014-12-07 01:13:12,260 INFO question_progress: Results 50% (Get Computer Name and IP Route Details)
15 2014-12-07 01:13:17,289 INFO question_progress: Results 50% (Get Computer Name and IP Route Details)
16 2014-12-07 01:13:22,319 INFO question_progress: Results 50% (Get Computer Name and IP Route Details)
17 2014-12-07 01:13:27,344 INFO question_progress: Results 100% (Get Computer Name and IP Route Details)
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, ], Gateway
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\vmnvc
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\GroupFilters
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\D11Tmp64
517 C:\Program Files\Microsoft SQL Server\MSSQL11.SQLEXPRESS\MSSQL\Binn\D11Tmp32
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

```

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 Detail
3 2014-12-07 01:13:32,538 INFO      question_progress: Results 0% (Get Computer Name and IP Route Detail
4 2014-12-07 01:13:37,565 INFO      question_progress: Results 0% (Get Computer Name and IP Route Detail
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\vmtoolsd
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\vmtoolsd\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\vhsts
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\vhsts
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\vhsts
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\D11Tmp64
505 C:\Program Files\Microsoft SQL Server\MSSQL11.SQLEXPRESS\MSSQL\Binn\D11Tmp32
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

```









[illegible]











```

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

```

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

```

```
export_kwargs["expand_grouped_columns"] = True
export_kwargs["header_add_sensor"] = True

# ask the question that will provide the resultset that we want to use
ask_kwargs = {
    'qtype': 'manual_human',
    'sensors': [
        "Computer Name", "IP Route Details", "IP Address",
        'Folder Name Search with RegEx Match{dirname=Program Files,regex=.*Shared.*}',
    ],
}

response = handler.ask(**ask_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['question_results']
export_str = handler.export_obj(**export_kwargs)

print ""
print "print the export_str returned from export_obj():"
print export_str
```

### Output from Python Code

```

Handler for Session to 172.16.31.128:444, Authenticated: True, Version: 6.2.314.3258
2014-12-07 01:15:03,389 INFO question_progress: Results 0% (Get Computer Name and IP Route Detail
2014-12-07 01:15:08,417 INFO question_progress: Results 0% (Get Computer Name and IP Route Detail
2014-12-07 01:15:13,445 INFO question_progress: Results 0% (Get Computer Name and IP Route Detail
2014-12-07 01:15:18,472 INFO question_progress: Results 0% (Get Computer Name and IP Route Detail
2014-12-07 01:15:23,500 INFO question_progress: Results 50% (Get Computer Name and IP Route Deta
2014-12-07 01:15:28,525 INFO question_progress: Results 100% (Get Computer Name and IP Route Det

print the export_str returned from export_obj():
Computer Name: Computer Name (String),"Folder Name Search with RegEx Match[No, Program Files, No,]:
Casus-Belli.local,Windows Only,fe80::e896:clc9:d927:bbe0,UNRELATED TO IP Address: IP Address (IPAddr
Casus-Belli.local,Windows Only,2604:2000:69e6:1a00:82e6:50ff:feld:1dca,UNRELATED TO IP Address: IP A
Casus-Belli.local,Windows Only,172.16.31.1,UNRELATED TO IP Address: IP Address (IPAddress),UNRELATED
Casus-Belli.local,Windows Only,fe80::82e6:50ff:feld:1dca,UNRELATED TO IP Address: IP Address (IPAddr
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Casus-Belli.local,Windows Only,192.168.0.3,UNRELATED TO IP Address: IP Address (IPAddress),UNRELATED
Casus-Belli.local,Windows Only,fe80::2886:21ff:fe7f:3ef4,UNRELATED TO IP Address: IP Address (IPAddr
Casus-Belli.local,Windows Only,2604:2000:69e6:1a00:95ad:5fe5:cf9e:5403,UNRELATED TO IP Address: IP A
Casus-Belli.local,Windows Only,fd1b:56a6:50eb:cd49:e896:clc9:d927:bbe0,UNRELATED TO IP Address: IP A
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Casus-Belli.local,Windows Only,UNRELATED TO IP Route Details: Destination (IPAddress),169.254,UCS,li
Casus-Belli.local,Windows Only,UNRELATED TO IP Route Details: Destination (IPAddress),172.16.31/24,U
Casus-Belli.local,Windows Only,UNRELATED TO IP Route Details: Destination (IPAddress),192.168.0.1/32
Casus-Belli.local,Windows Only,UNRELATED TO IP Route Details: Destination (IPAddress),172.16.152/24,
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jtanium1.localdomain,C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012\1040_IT
jtanium1.localdomain,C:\Program Files\Common Files\Microsoft Shared\VS7Debug,"UNRELATED TO Folder Na
jtanium1.localdomain,C:\Program Files\tanium\tanium Server\Apache24>manual\style,"UNRELATED TO Folde
jtanium1.localdomain,C:\Program Files\tanium\tanium Server\Apache24\htdocs\console\history,"UNRELATE

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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\amd64\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\sm
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\
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\sm
106 | jtanium1.localdomain,C:\Program Files\Common Files\VMware\Drivers\Virtual Printer\TPOGB\amd64,"UNREI
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,

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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
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 Sea
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
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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_KC
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\10B3,"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 Fo
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 Search
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 Search
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 Folder
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\repdata,"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\GroupFilters,"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\co
380 jtanium1.localdomain,C:\Program Files\Tanium\Tanium Server\Apache24>manual\howto,"UNRELATED TO Folde

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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 Folds
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 Folds
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 Folders
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 Folds
412 jtanium1.localdomain,C:\Program Files\Microsoft SQL Server\90\License Terms\1033,"UNRELATED TO Folds
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 TC
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

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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\D11Tmp64,"U
470 jtanium1.localdomain,C:\Program Files\Microsoft SQL Server\MSSQL11.SQLEXPRESS\MSSQL\Binn\D11Tmp32,"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 Fo
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 Folve
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\mo
483 jtanium1.localdomain,C:\Program Files\Common Files\VMware\Drivers\Virtual Printer\TPOGB,"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
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 Search
507 jtanium1.localdomain,C:\Program Files\Microsoft SQL Server\MSSQL11.SQLEXPRESS\MSSQL\Bin\Resources\2
508 jtanium1.localdomain,C:\Program Files\Microsoft SQL Server\MSSQL11.SQLEXPRESS\MSSQL\Bin\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

```

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 Detail
16 2014-12-07 01:16:39,202 INFO      question_progress: Results 0% (Get Computer Name and IP Route Detail
17 2014-12-07 01:16:44,231 INFO      question_progress: Results 0% (Get Computer Name and IP Route Detail
18 2014-12-07 01:16:49,259 INFO      question_progress: Results 100% (Get Computer Name and IP Route Detail
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",

```

```
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": [
200         "-",
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",
```

```

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\\link\\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\\link\\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\\link\\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\\reso
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\\link",
274 "C:\\Program Files\\Common Files\\Microsoft Shared\\link\\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\\link\\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\\link\\sl-SI",
287 "C:\\Program Files\\Tanium\\Tanium Server\\plugins\\console\\UserGroups",
288 "C:\\Program Files\\Common Files\\Microsoft Shared\\link\\hu-HU",
289 "C:\\Program Files\\Common Files\\System\\en-US",
290 "C:\\Program Files\\Common Files\\Microsoft Shared\\link\\zh-TW",
291 "C:\\Program Files\\Common Files\\Microsoft Shared\\link\\zh-CN",
292 "C:\\Program Files\\Common Files\\VMware\\Drivers\\video_wddm",
293 "C:\\Program Files\\Common Files\\Microsoft Shared\\link\\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\\link\\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",

```

```

305 "C:\\Program Files\\Common Files\\Microsoft Shared\\link\\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",
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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\\link\\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\\console",
650 "C:\\Program Files\\Tanium\\Tanium Server\\http",
651 "C:\\Program Files\\Common Files\\Microsoft Shared\\link\\ja-JP",
652 "C:\\Program Files\\Microsoft SQL Server\\110\\DTS\\Packages",

```

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653 "C:\\Program Files\\Common Files\\Microsoft Shared\\link\\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\\link\\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\\link\\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\\link\\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\\link\\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

```
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 controls
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 Detail
3 2014-12-07 01:16:54,490 INFO question_progress: Results 0% (Get Computer Name and IP Route Detail
4 2014-12-07 01:16:59,517 INFO question_progress: Results 0% (Get Computer Name and IP Route Detail
5 2014-12-07 01:17:04,543 INFO question_progress: Results 0% (Get Computer Name and IP Route Detail
6 2014-12-07 01:17:09,566 INFO question_progress: Results 0% (Get Computer Name and IP Route Detail
7 2014-12-07 01:17:14,594 INFO question_progress: Results 0% (Get Computer Name and IP Route Detail
8 2014-12-07 01:17:19,620 INFO question_progress: Results 0% (Get Computer Name and IP Route Detail
9 2014-12-07 01:17:24,649 INFO question_progress: Results 0% (Get Computer Name and IP Route Detail
10 2014-12-07 01:17:29,673 INFO question_progress: Results 0% (Get Computer Name and IP Route Detail
11 2014-12-07 01:17:34,700 INFO question_progress: Results 0% (Get Computer Name and IP Route Detail
12 2014-12-07 01:17:39,728 INFO question_progress: Results 0% (Get Computer Name and IP Route Detail
13 2014-12-07 01:17:44,756 INFO question_progress: Results 0% (Get Computer Name and IP Route Detail
14 2014-12-07 01:17:49,781 INFO question_progress: Results 0% (Get Computer Name and IP Route Detail
15 2014-12-07 01:17:54,810 INFO question_progress: Results 0% (Get Computer Name and IP Route Detail
16 2014-12-07 01:17:59,838 INFO question_progress: Results 0% (Get Computer Name and IP Route Detail
17 2014-12-07 01:18:04,870 INFO question_progress: Results 0% (Get Computer Name and IP Route Detail
18 2014-12-07 01:18:09,896 INFO question_progress: Results 0% (Get Computer Name and IP Route Detail
19 2014-12-07 01:18:14,918 INFO question_progress: Results 0% (Get Computer Name and IP Route Detail
20 2014-12-07 01:18:19,944 INFO question_progress: Results 0% (Get Computer Name and IP Route Detail
21 2014-12-07 01:18:24,973 INFO question_progress: Results 100% (Get Computer Name and IP Route Detail
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:feld:1dca
45 172.16.31.1
46 fe80::82e6:50ff:feld: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

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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

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291 C:\Program Files\Tanium\Tanium Server\Apache24>manual\vhsts
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\Tanium\Tanium Server\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

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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\vhsts
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\vhsts
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

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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\GroupFilters
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
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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\D11Tmp64
521 C:\Program Files\Microsoft SQL Server\MSSQL11.SQLEXPRESS\MSSQL\Binn\D11Tmp32
522 C:\Program Files\Tanium\Tanium Server\ApacheBackup2014-09-16-20-44-23>manual\programs

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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

```

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 Detail
3  2014-12-07 01:18:30,161 INFO      question_progress: Results 0% (Get Computer Name and IP Route Detail
4  2014-12-07 01:18:35,187 INFO      question_progress: Results 0% (Get Computer Name and IP Route Detail
5  2014-12-07 01:18:40,212 INFO      question_progress: Results 0% (Get Computer Name and IP Route Detail
6  2014-12-07 01:18:45,239 INFO      question_progress: Results 0% (Get Computer Name and IP Route Detail
7  2014-12-07 01:18:50,263 INFO      question_progress: Results 0% (Get Computer Name and IP Route Detail
8  2014-12-07 01:18:55,288 INFO      question_progress: Results 0% (Get Computer Name and IP Route Detail
9  2014-12-07 01:19:00,310 INFO      question_progress: Results 0% (Get Computer Name and IP Route Detail
10 2014-12-07 01:19:05,342 INFO      question_progress: Results 0% (Get Computer Name and IP Route Detail
11 2014-12-07 01:19:10,366 INFO      question_progress: Results 0% (Get Computer Name and IP Route Detail
12 2014-12-07 01:19:15,393 INFO      question_progress: Results 0% (Get Computer Name and IP Route Detail
13 2014-12-07 01:19:20,421 INFO      question_progress: Results 0% (Get Computer Name and IP Route Detail
14 2014-12-07 01:19:25,450 INFO      question_progress: Results 0% (Get Computer Name and IP Route Detail
15 2014-12-07 01:19:30,478 INFO      question_progress: Results 0% (Get Computer Name and IP Route Detail
16 2014-12-07 01:19:35,502 INFO      question_progress: Results 0% (Get Computer Name and IP Route Detail
17 2014-12-07 01:19:40,529 INFO      question_progress: Results 0% (Get Computer Name and IP Route Detail
18 2014-12-07 01:19:45,555 INFO      question_progress: Results 0% (Get Computer Name and IP Route Detail
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\vmxvc
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\GroupFilters
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\D11Tmp64
519 C:\Program Files\Microsoft SQL Server\MSSQL11.SQLEXPRESS\MSSQL\Binn\D11Tmp32
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

```
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 Deta
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 Catus-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:clc9:d927:bbe0
48 2604:2000:69e6:1a00:82e6:50ff:feld:ldca
49 172.16.31.1
50 fe80::82e6:50ff:feld:ldca
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:clc9: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\vmcvc
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

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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

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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\vhsts
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

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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\GroupFilters
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

```

```

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\D11Tmp64
524 C:\Program Files\Microsoft SQL Server\MSSQL11.SQLEXPRESS\MSSQL\Binn\D11Tmp32
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 Detail
10 2014-12-07 01:20:56,351 INFO question_progress: Results 0% (Get Computer Name and IP Route Detail
11 2014-12-07 01:21:01,387 INFO question_progress: Results 0% (Get Computer Name and IP Route Detail
12 2014-12-07 01:21:06,411 INFO question_progress: Results 0% (Get Computer Name and IP Route Detail
13 2014-12-07 01:21:11,440 INFO question_progress: Results 0% (Get Computer Name and IP Route Detail
14 2014-12-07 01:21:16,464 INFO question_progress: Results 0% (Get Computer Name and IP Route Detail
15 2014-12-07 01:21:21,490 INFO question_progress: Results 0% (Get Computer Name and IP Route Detail
16 2014-12-07 01:21:26,517 INFO question_progress: Results 0% (Get Computer Name and IP Route Detail
17 2014-12-07 01:21:31,544 INFO question_progress: Results 0% (Get Computer Name and IP Route Detail
18 2014-12-07 01:21:36,571 INFO question_progress: Results 0% (Get Computer Name and IP Route Detail
19 2014-12-07 01:21:41,599 INFO question_progress: Results 0% (Get Computer Name and IP Route Detail
20 2014-12-07 01:21:46,628 INFO question_progress: Results 0% (Get Computer Name and IP Route Detail
21 2014-12-07 01:21:51,656 INFO question_progress: Results 0% (Get Computer Name and IP Route Detail
22 2014-12-07 01:21:56,683 INFO question_progress: Results 0% (Get Computer Name and IP Route Detail
23 2014-12-07 01:22:01,706 INFO question_progress: Results 0% (Get Computer Name and IP Route Detail
24 2014-12-07 01:22:06,730 INFO question_progress: Results 0% (Get Computer Name and IP Route Detail
25 2014-12-07 01:22:11,757 INFO question_progress: Results 50% (Get Computer Name and IP Route Detail
26 2014-12-07 01:22:16,786 INFO question_progress: Results 100% (Get Computer Name and IP Route Detail
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

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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

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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

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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

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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\GroupFilters
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

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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\D11Tmp64
527 C:\Program Files\Microsoft SQL Server\MSSQL11.SQLEXPRESS\MSSQL\Binn\D11Tmp32
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

```

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 Detail
3 2014-12-07 01:22:22,008 INFO      question_progress: Results 0% (Get Computer Name and IP Route Detail
4 2014-12-07 01:22:27,037 INFO      question_progress: Results 0% (Get Computer Name and IP Route Detail
5 2014-12-07 01:22:32,062 INFO      question_progress: Results 0% (Get Computer Name and IP Route Detail
6 2014-12-07 01:22:37,090 INFO      question_progress: Results 100% (Get Computer Name and IP Route Detail
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\vmvc
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\vhsts
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\GroupFiltters
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\D11Tmp64
506 C:\Program Files\Microsoft SQL Server\MSSQL11.SQLEXPRESS\MSSQL\Binn\D11Tmp32
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

```
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 Detail
3  2014-12-07 01:22:42,295 INFO      question_progress: Results 0% (Get Computer Name and IP Route Detail
4  2014-12-07 01:22:47,320 INFO      question_progress: Results 0% (Get Computer Name and IP Route Detail
5  2014-12-07 01:22:52,345 INFO      question_progress: Results 0% (Get Computer Name and IP Route Detail
6  2014-12-07 01:22:57,376 INFO      question_progress: Results 0% (Get Computer Name and IP Route Detail
7  2014-12-07 01:23:02,402 INFO      question_progress: Results 0% (Get Computer Name and IP Route Detail
8  2014-12-07 01:23:07,429 INFO      question_progress: Results 0% (Get Computer Name and IP Route Detail
9  2014-12-07 01:23:12,454 INFO      question_progress: Results 0% (Get Computer Name and IP Route Detail
10 2014-12-07 01:23:17,484 INFO      question_progress: Results 0% (Get Computer Name and IP Route Detail
11 2014-12-07 01:23:22,507 INFO      question_progress: Results 100% (Get Computer Name and IP Route Detail
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:feld:1dca
35 172.16.31.1
36 fe80::82e6:50ff:feld: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\vmnsvc
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
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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

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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

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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

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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

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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\vhsts
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

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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\osknpad
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

```



```

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\D11Tmp64
511 C:\Program Files\Microsoft SQL Server\MSSQL11.SQLEXPRESS\MSSQL\Binn\D11Tmp32
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

```

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 Detail
3 2014-12-07 01:23:27,701 INFO      question_progress: Results 0% (Get Computer Name and IP Route Detail
4 2014-12-07 01:23:32,725 INFO      question_progress: Results 0% (Get Computer Name and IP Route Detail
5 2014-12-07 01:23:37,753 INFO      question_progress: Results 0% (Get Computer Name and IP Route Detail
6 2014-12-07 01:23:42,781 INFO      question_progress: Results 0% (Get Computer Name and IP Route Detail
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\vmxvc
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

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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\vhsts
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\GroupFilters
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

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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\D11Tmp64
508 C:\Program Files\Microsoft SQL Server\MSSQL11.SQLEXPRESS\MSSQL\Binn\D11Tmp32
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

```

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 controls
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 Deta
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:clc9: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\vmssc
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\vhsts
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\GroupFilters
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\D11Tmp64
499 C:\Program Files\Microsoft SQL Server\MSSQL11.SQLEXPRESS\MSSQL\Binn\D11Tmp32
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

```
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 machines)
5
6 Traceback (most recent call last):
7   File "<string>", line 49, in <module>
8   File "/Users/jolsen/gh/pytan/lib/pytan/handler.py", line 1339, in export_obj
9     utils.check_dictkey(**check_args)
10    File "/Users/jolsen/gh/pytan/lib/pytan/utils.py", line 2440, in check_dictkey
11      raise HandlerError(err(key, valid_list_types, list_types))
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

```

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 machines)
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 supplied
```

## 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 controls
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 machines)
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 supplied

```

### Invalid export resultset bad format

Export a ResultSet from asking a question 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 controls
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 machines)
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; &quot;0.0.0&quot;
45         Wscript.Echo dest &amp; &quot;|&quot; &amp; gw &amp; &quot;|&quot; &amp; mask &amp; &quot;|&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(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     strProgramFilesx86=objShell.ExpandEnvironmentStrings("&quot;%ProgramFiles%&quot;")
203
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&quot;
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;")
254     intRandomizeScalingPercentage = objShell.RegRead("&quot;HKLM\&quot;&amp;strRandomizeRegPath&amp;quot;")
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; " 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; "
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

```



```
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:&quot;
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 "inet"; | grep -v ";:1"
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|||regex|||casesensitive|||global||\\necho Windows
201                 \"script_type\": \"UnixShell\"
202             },
203             {
204                 \"platform\": \"Mac\",
205                 \"script\": \"#!/bin/bash\\n#||dirname|||regex|||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

```
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|||regex|||casesensitive|||global||\\necho Windows
232                 \"script_type\": \"UnixShell\"
233             },
234             {
235                 \"_type\": \"query\",
236                 \"platform\": \"Mac\",
237                 \"script\": \"#!/bin/bash\\n#||dirname|||regex|||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:&quot;
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     }
176 }

```

```

175         "_type": "query",
176         "platform": "Linux",
177         "script": "#!/bin/bash\nifconfig | grep -w inet | grep -v 127.0.0.1 | awk '{print $1}'",
178         "script_type": "UnixShell"
179     },
180     {
181         "_type": "query",
182         "platform": "Mac",
183         "script": "#!/bin/bash\n\nifconfig -a -u |grep 'inet'; | grep -v 'lo'",
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 the system",
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": "regex",
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|||regex|||casesensitive|||global||\\necho Windows
309             "script_type": "UnixShell"
310         },
311         {
312             "_type": "query",
313             "platform": "Mac",
314             "script": "#!/bin/bash\\n#||dirname|||regex|||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

```
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     &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 = &quot;127.0.0.1&quot;;
27
28 Set colItems = objWMIService.ExecQuery(&quot;Select * from Win32_IP4RouteTable&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 &lt;&gt; localhost then
39             gw = &quot;0.0.0.0&quot;;
40         end if
41     Next
42     if gw &lt;&gt; localhost and dest &lt;&gt; &quot;224.0.0.0&quot; and rig
43         Wscript.Echo dest &amp; &quot;&quot; &amp; gw &amp; &quot;|&quot;
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 &#039;{print $2}&#039; | sed -e &#039;
50 </script></query><query><platform>Mac</platform><script_type>UnixShell</script_type><signature /><sc
51
52 ifconfig -a -u |grep &quot;inet&quot; | grep -v &quot;::1&quot; | grep -v &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 &#039; Folder Name Search with RegEx Match
56 &#039;=====
57 &#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;||regex||&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; & &Chr(34)& 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 &#039;RegExpMatch
128
129
130 Function GetTrueFalseArg(strArgName,strArgValue)
131     &#039; Checks for valid values, will fail with error message
132
133     Dim bArgVal

```

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

```

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

```

```

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

```

```

308     If Not strPath = &"&" Then
309         SensorRandomizeGetTaniumRegistryPath = strFoundTaniumRegistryPath
310     Else
311         SensorRandomizeGetTaniumRegistryPath = False
312         WScript.Echo &"Error: Cannot locate Tanium Registry Path&"
313     End If
314 End Function &"SensorRandomizeGetTaniumRegistryPath
315
316 Function SensorRandomizeGetTaniumComputerID
317 &"SensorRandomizeGetTaniumComputerID: This function gets the Tanium Computer ID
318     Dim objShell
319     Dim intClientID, strID, strKeyPath, strValueName
320
321     strKeyPath = SensorRandomizeGetTaniumRegistryPath
322     strValueName = &"ComputerID&"
323     Set objShell = CreateObject(&"WScript.Shell&"
324 On Error Resume Next
325 intClientID = objShell.RegRead(&"HKLM\&" & strKeyPath & "\&"
326 If Err.Number &"&" 0 Then
327     SensorRandomizeGetTaniumComputerID = 0
328 Else
329     SensorRandomizeGetTaniumComputerID = SensorRandomizeReinterpretSignedAsUnsigned(intClientID)
330 End If
331 On Error Goto 0
332 End Function &"SensorRandomizeGetTaniumComputerID
333
334 Function SensorRandomizeReinterpretSignedAsUnsigned(ByVal x)
335     If x &"&" 0 Then x = x + 2^32
336     SensorRandomizeReinterpretSignedAsUnsigned = x
337 End Function &"SensorRandomizeReinterpretSignedAsUnsigned
338
339 Sub SensorRandomizeEcho(str)
340     If bSensorRandomizeDebugOutput = true Then WScript.Echo str
341 End Sub &"SensorRandomizeEcho
342 &"-- End Random Sleep Functions --&"
343 &"- End file: utils/SensorRandomization/SensorRandomizationFunctions.vbs</script></query><query>
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

```

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      &quot;{impersonationLevel=impersonate}!\\&quot; &amp; amp; strComputer &amp; 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 = &quot;127.0.0.1&quot;
27
28 Set colItems = objWMIService.ExecQuery(&quot;Select * from Win32_IP4RouteTable&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 &lt;&gt; localhost then
39             gw = &quot;0.0.0.0&quot;
40         end if
41     Next
42     if gw &lt;&gt; localhost and dest &lt;&gt; &quot;224.0.0.0&quot; and rig
43         Wscript.Echo dest &amp; &quot;|&quot; &amp; gw &amp; &quot;|&quot;
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 &#039;{print $2}&#039; | sed -e &#039;#039;
50 </script></query><query><platform>Mac</platform><script_type>UnixShell</script_type><signature /><sc
51
52 ifconfig -a -u |grep &quot;inet&quot; | grep -v &quot;::1&quot; | grep -v &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 &#039; Folder Name Search with RegEx Match
56 &#039;=====
57 &#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; & &Chr(34)& & 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 &#039;RegExpMatch
128
129
130 Function GetTrueFalseArg(strArgName,strArgValue)
131     &#039; Checks for valid values, will fail with error message
132
133     Dim bArgVal
134     bArgVal = False
135     Select Case LCase(strArgValue)
136         Case &quot;true&quot;;
137             bArgVal = True
138         Case &quot;yes&quot;;
139             bArgVal = True
140         Case &quot;false&quot;;
141             bArgVal = False
142         Case &quot;no&quot;;
143             bArgVal = False
144         Case Else
145             WScript.Echo &quot;Error: Argument &#039;&quot;;&#039;strArgName&
146             PrintUsage
147     End Select
148     GetTrueFalseArg = bArgVal
149
150 End Function &#039;GetTrueFalseArg
151
152
153 &#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 &#039;avoid potential busy loop
159     Loop While FSO.FileExists(Result)
160
161     TempName = Result
162 End Function &#039;TempName
163
164 &#039; Runs a command with Cmd.exe and redirects its output to a temporary
165 &#039; file. The function returns the name of the temporary file that holds
166 &#039; the command&#039;s output.
167 Function RunCommand(Command, OutputFilename, b64BitNecessary)
168     &#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(&quot;Scripting.FileSystemObject&quot;;)
171     Set WshShell = CreateObject(&quot;WScript.Shell&quot;;)
172
173     strDOSCall = &quot;%ComSpec% /C &quot;;
174
175     &#039; if 64-bit OS *and* we must examine in 64-bit mode to avoid FS Redirection
176     strProgramFilesx86=WshShell.ExpandEnvironmentStrings(&quot;%ProgramFiles%&quot;;)
177     If objFSO.FolderExists(strProgramFilesx86) And b64BitNecessary Then &#039; quick check for x
178         strDOSCall = FixFileSystemRedirectionForPath(WshShell.ExpandEnvironmentStrings(strDOSCall)
179     End If
180
181     CommandLine = WshShell.ExpandEnvironmentStrings(strDOSCall & & Command & & &quot;
182     WshShell.Run CommandLine, 0, True

```

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

```

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

```

```

299
300     If strPath = &quot;&quot; Then
301         &#039; Could not find 32-bit mode path, checking Wow6432Node
302         On Error Resume Next
303         strPath = objShell.RegRead(&quot;HKLM\&quot;& amp; amp; keyWoWPath& amp; amp; &quot;)
304         On Error Goto 0
305         strFoundTaniumRegistryPath = keyWoWPath
306     End If
307
308     If Not strPath = &quot;&quot; Then
309         SensorRandomizeGetTaniumRegistryPath = strFoundTaniumRegistryPath
310     Else
311         SensorRandomizeGetTaniumRegistryPath = False
312         WScript.Echo &quot;Error: Cannot locate Tanium Registry Path&quot;
313     End If
314 End Function &#039;SensorRandomizeGetTaniumRegistryPath
315
316 Function SensorRandomizeGetTaniumComputerID
317 &#039;&#039; This function gets the Tanium Computer ID
318 Dim objShell
319 Dim intClientID, strID, strKeyPath, strValueName
320
321 strKeyPath = SensorRandomizeGetTaniumRegistryPath
322 strValueName = &quot;ComputerID&quot;
323 Set objShell = CreateObject(&quot;WScript.Shell&quot;)
324 On Error Resume Next
325 intClientID = objShell.RegRead(&quot;HKLM\&quot;& amp; amp; strKeyPath& amp; amp; &quot;)
326 If Err.Number &lt; 0 Then
327     SensorRandomizeGetTaniumComputerID = 0
328 Else
329     SensorRandomizeGetTaniumComputerID = SensorRandomizeReinterpretSignedAsUnsigned(intClientID)
330 End If
331 On Error Goto 0
332 End Function &#039;SensorRandomizeGetTaniumComputerID
333
334 Function SensorRandomizeReinterpretSignedAsUnsigned(ByVal x)
335     If x &lt; 0 Then x = x + 2^32
336     SensorRandomizeReinterpretSignedAsUnsigned = x
337 End Function &#039;SensorRandomizeReinterpretSignedAsUnsigned
338
339 Sub SensorRandomizeEcho(str)
340     If bSensorRandomizeDebugOutput = true Then WScript.Echo str
341 End Sub &#039;SensorRandomizeEcho
342 &#039; -- End Random Sleep Functions --&#039;
343 &#039;-- End file: utils/SensorRandomization/SensorRandomizationFunctions.vbs</script></query><query><platform>Mac</platform><script_type>UnixShell</script_type><signature /><signature /></query></queries></sensor></sensors>
344 #||dirname|||regexp|||casesensitive|||global||
345 echo Windows Only
346 </script></query><query><platform>Mac</platform><script_type>UnixShell</script_type><signature /><signature /></query></queries></sensor></sensors>
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><hid
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(&quot;winmgmts:&quot; _
8     &amp;&amp; &quot;{impersonationLevel=impersonate}!\\&quot; &amp;&amp; strComputer &amp;&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 = &quot;127.0.0.1&quot;;
27
28 Set colItems = objWMIService.ExecQuery(&quot;Select * from Win32_IP4RouteTable&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 &lt;&gt; localhost then
39             gw = &quot;0.0.0.0&quot;;
40         end if
41     Next
42     if gw &lt;&gt; localhost and dest &lt;&gt; &quot;224.0.0.0&quot;; and rig
43         Wscript.Echo dest &amp;&amp; &quot;|&quot; &amp;&amp; gw &amp;&amp; &quot;|&quot;
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 &#039;{print $2}&#039; | sed -e &#039;
50 </script></query><query><platform>Mac</platform><script_type>UnixShell</script_type><script>#!/bin/b
51
52 ifconfig -a -u |grep &quot;inet&quot;; | grep -v &quot;::1&quot;; | grep -v &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 &#039; Folder Name Search with RegEx Match
56 &#039;=====
57 &#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; & & Chr(34)& & 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 &#039;RegExpMatch
128
129
130 Function GetTrueFalseArg(strArgName,strArgValue)
131     &#039; Checks for valid values, will fail with error message
132
133     Dim bArgVal
134     bArgVal = False
135     Select Case LCase(strArgValue)
136         Case &quot;true&quot;
137             bArgVal = True
138         Case &quot;yes&quot;
139             bArgVal = True
140         Case &quot>false&quot;
141             bArgVal = False
142         Case &quot;no&quot;
143             bArgVal = False
144         Case Else
145             WScript.Echo &quot;Error: Argument &#039;&quot;&#039;&strArgName&
146             PrintUsage
147     End Select
148     GetTrueFalseArg = bArgVal
149
150 End Function &#039;GetTrueFalseArg
151
152
153 &#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 &#039;avoid potential busy loop
159     Loop While FSO.FileExists(Result)
160
161     TempName = Result
162 End Function &#039;TempName
163
164 &#039; Runs a command with Cmd.exe and redirects its output to a temporary
165 &#039; file. The function returns the name of the temporary file that holds
166 &#039; the command&#039;s output.
167 Function RunCommand(Command, OutputFilename, b64BitNecessary)
168     &#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(&quot;Scripting.FileSystemObject&quot;)
171     Set WshShell = CreateObject(&quot;WScript.Shell&quot;)
172
173     strDOSCall = &quot;%ComSpec% /C &quot;
```

```

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

```

```

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

```

```

291 keyNativePath = &quot;Software\Tanium\Tanium Client&quot;;
292 keyWowPath = &quot;Software\Wow6432Node\Tanium\Tanium Client&quot;;
293
294 &#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(&quot;HKLM\&quot;& amp; amp; keyNativePath& amp; &quot;\Pa
297 On Error Goto 0
298 strFoundTaniumRegistryPath = keyNativePath
299
300 If strPath = &quot;&quot; Then
301     &#039; Could not find 32-bit mode path, checking Wow6432Node
302     On Error Resume Next
303     strPath = objShell.RegRead(&quot;HKLM\&quot;& amp; amp; keyWowPath& amp; &quot;\Pa
304     On Error Goto 0
305     strFoundTaniumRegistryPath = keyWowPath
306 End If
307
308 If Not strPath = &quot;&quot; Then
309     SensorRandomizeGetTaniumRegistryPath = strFoundTaniumRegistryPath
310 Else
311     SensorRandomizeGetTaniumRegistryPath = False
312     WScript.Echo &quot;Error: Cannot locate Tanium Registry Path&quot;;
313 End If
314 End Function &#039;SensorRandomizeGetTaniumRegistryPath
315
316 Function SensorRandomizeGetTaniumComputerID
317 &#039;&#039; This function gets the Tanium Computer ID
318 Dim objShell
319 Dim intClientID, strID, strKeyPath, strValueName
320
321 strKeyPath = SensorRandomizeGetTaniumRegistryPath
322 strValueName = &quot;ComputerID&quot;;
323 Set objShell = CreateObject(&quot;WScript.Shell&quot;);
324 On Error Resume Next
325 intClientID = objShell.RegRead(&quot;HKLM\&quot;& amp; amp; strKeyPath& amp; &quot;\&
326 If Err.Number &lt; &gt; 0 Then
327     SensorRandomizeGetTaniumComputerID = 0
328 Else
329     SensorRandomizeGetTaniumComputerID = SensorRandomizeReinterpretSignedAsUnsigned(intClientID)
330 End If
331 On Error Goto 0
332 End Function &#039;SensorRandomizeGetTaniumComputerID
333
334 Function SensorRandomizeReinterpretSignedAsUnsigned(ByVal x)
335     If x &lt; 0 Then x = x + 2^32
336     SensorRandomizeReinterpretSignedAsUnsigned = x
337 End Function &#039;SensorRandomizeReinterpretSignedAsUnsigned
338
339 Sub SensorRandomizeEcho(str)
340     If bSensorRandomizeDebugOutput = true Then WScript.Echo str
341 End Sub &#039;SensorRandomizeEcho
342 &#039; -- End Random Sleep Functions --&#039;
343 &#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; &quot;
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 '{print $2}' | sed -e 's/addr://&#039;
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 '&#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;:\&
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;;&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&quot;
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; &quot;
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;strValueName
330     If Err.Number &lt;&gt; 0 Then
331         SensorRandomizeGetTaniumComputerID = 0
332     Else
333         SensorRandomizeGetTaniumComputerID = SensorRandomizeReinterpretSignedAsUnsigned(intClientID)
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 explode true

Export a BaseType from getting objects as CSV 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'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
```



```
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;:\&
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
```





```

211         strRestOfPath = Replace(strFilePath, strSystem32Location, "");
212         strNewSystem32Location = Replace(strSystem32Location, "system32", "
213         strFilePath = strNewSystem32Location & 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 & "\Sensor Data\Random Sleep&
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 &#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 "Sleeping for " & intSensorRandomizeWaitTime & "
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("WScript.Shell");
328     On Error Resume Next
329     intClientID = objShell.RegRead("HKLM\&quot;&strKeyPath&&quot;\&quot;&strValueName");
330     If Err.Number <> 0 Then
331         SensorRandomizeGetTaniumComputerID = 0
332     Else
333         SensorRandomizeGetTaniumComputerID = SensorRandomizeReinterpretSignedAsUnsigned(intClientID)
334     End If
335     On Error Goto 0
336 End Function &#039;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 sort empty list

Export a BaseType from getting objects as CSV with an empty list for 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"] = []
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;0&quot;
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(""WScript.Shell"")
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;; \&
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("Scripting.FileSystemObject")
201 Set objShell = CreateObject("Wscript.Shell")
202
203 strProgramFilesx86=objShell.ExpandEnvironmentStrings("%ProgramFiles%");
204
205 strFilePath = LCase(strFilePath)
206 strSystem32Location = LCase(objFSO.GetSpecialFolder(1))
207 strProgramFilesx86=objShell.ExpandEnvironmentStrings("%ProgramFiles(x86)%");
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;);
212         strNewSystem32Location = Replace(strSystem32Location,"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&quot;
250
251     Set objShell = CreateObject("WScript.Shell");
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 &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; &quot;
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 < 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

```



```
9
10 # Logging controls
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("select * from win32_networkadapterconfiguration where IPAd
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 = "127.0.0.1";
29
30 Set colItems = objWMIService.ExecQuery("Select * from Win32_IP4RouteTable";)
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) <> "
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://&#039;
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 &#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;;\&o
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 & Command & " >> &
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("Scripting.FileSystemObject")
201     Set objShell = CreateObject("Wscript.Shell")
202
203     strProgramFilesx86=objShell.ExpandEnvironmentStrings("&#039;%ProgramFiles%&#039;")
204
205     strFilePath = LCase(strFilePath)
206     strSystem32Location = LCase(objFSO.GetSpecialFolder(1))
207     strProgramFilesx86=objShell.ExpandEnvironmentStrings("&#039;%ProgramFiles(x86)%&#039;")
208
209     If objFSO.FolderExists(strProgramFilesx86) Then &#039; quick check for x64
210         If InStr(strFilePath, strSystem32Location) = 1 Then
211             strRestOfPath = Replace(strFilePath, strSystem32Location, "&#039;&#039;")
212             strNewSystem32Location = Replace(strSystem32Location, "&#039;system32&#039;", "&#039;")
213             strFilePath = strNewSystem32Location&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&quot;&quot;\Sensor Data\Random Sleep&quot;
250
251      Set objShell = CreateObject(&quot;WScript.Shell&quot;)
252      On Error Resume Next
253      intRandomizeFlag = objShell.RegRead(&quot;HKLM&quot;&strRandomizeRegPath&quot;\SensorR
254      intRandomizeScalingPercentage = objShell.RegRead(&quot;HKLM&quot;&strRandomizeRegPath&quot;
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                  &intRandomizeScalingPercentage & &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; &intSensorRandomizeWaitTime & &quot;
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;&keyNativePath&quot;\Path&quot;);)

```

```

On Error Goto 0
strFoundTaniumRegistryPath = keyNativePath

If strPath = ""; Then
    &#039; Could not find 32-bit mode path, checking Wow6432Node
    On Error Resume Next
    strPath = objShell.RegRead("HKLM\"&keyWowPath&"\Path".)
    On Error Goto 0
    strFoundTaniumRegistryPath = keyWowPath
End If

If Not strPath = ""; Then
    SensorRandomizeGetTaniumRegistryPath = strFoundTaniumRegistryPath
Else
    SensorRandomizeGetTaniumRegistryPath = False
    WScript.Echo "Error: Cannot locate Tanium Registry Path";
End If
End Function &#039;SensorRandomizeGetTaniumRegistryPath

Function SensorRandomizeGetTaniumComputerID
&#039;&#039; This function gets the Tanium Computer ID
Dim objShell
Dim intClientID, strID, strKeyPath, strValueName

strKeyPath = SensorRandomizeGetTaniumRegistryPath
strValueName = "ComputerID";
Set objShell = CreateObject("WScript.Shell".)
On Error Resume Next
intClientID = objShell.RegRead("HKLM\"&strKeyPath&"\"&strValueName
If Err.Number <> 0 Then
    SensorRandomizeGetTaniumComputerID = 0
Else
    SensorRandomizeGetTaniumComputerID = SensorRandomizeReinterpretSignedAsUnsigned(intClientID)
End If
On Error Goto 0
End Function &#039;SensorRandomizeGetTaniumComputerID

Function SensorRandomizeReinterpretSignedAsUnsigned(ByVal x)
If x < 0 Then x = x + 2^32
SensorRandomizeReinterpretSignedAsUnsigned = x
End Function &#039;SensorRandomizeReinterpretSignedAsUnsigned

Sub SensorRandomizeEcho(str)
If bSensorRandomizeDebugOutput = true Then WScript.Echo str
End Sub &#039;SensorRandomizeEcho
&#039; -- End Random Sleep Functions --&#039;
&#039;- End file: utils/SensorRandomization/SensorRandomizationFunctions.vbs", VBScript, Linux, "#!/bin
#||dirname|||regexp|||casesensitive|||global||
echo Windows Only
", UnixShell, Mac, "#!/bin/bash
#||dirname|||regexp|||casesensitive|||global||
echo Windows Only
", 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

```

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'name', u'description']
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 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; &quot;
45         Wscript.Echo dest &amp; &quot;|&quot;; &amp; gw &amp; &quot;|&quot;; &amp; mask &amp; &quot;|&
46     end if
47 Next
48 Next",VBScript,Linux,"route -n | grep -v Kernel | grep -v Destination | awk &#039;{ print $1 &quot;;|
49 ",UnixShell,Mac,"netstat -rn | grep -v &quot;;:&quot;; | grep -v Destination | grep -v Routing | grep
50 ",UnixShell,0,48,0,1,0,Destination,IPAddress,0,1,1,Gateway,IPAddress,0,1,2,Mask,String,0,1,3,Flags,S
51 IP Address,"Current IP Addresses of client machine.
52 Example: 192.168.1.1",Network,2014-12-06T18:00:22,,",",1,3209138996,0,147,1,Jim Olsen,600,0,defined,T
53 ifconfig | grep -w inet | grep -v 127.0.0.1 | awk &#039;{print $2}&#039;; | sed -e &#039;s/addr:\/&#0
54 ",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;:\&
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 & Command & &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;;&quot;);
213              strFilePath = strNewSystem32Location&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;&#039;\Sensor Data\Random Sleep&#039;
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;&#039;\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;&#039; _
260                 &amp; intRandomizeScalingPercentage &amp; &quot;&#039; 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;&#039; &amp; intSensorRandomizeWaitTime &amp; &quot;&#039;
268         WScript.Sleep(intSensorRandomizeWaitTime)
269         SensorRandomizeEcho &quot;Done sleeping, continuing ...&quot;&#039;
270     Else
271         SensorRandomizeEcho &quot;SensorRandomize Not Enabled - No Op&quot;&#039;
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;strValueName
330     If Err.Number &lt;&gt; 0 Then
331         SensorRandomizeGetTaniumComputerID = 0
332     Else
333         SensorRandomizeGetTaniumComputerID = SensorRandomizeReinterpretSignedAsUnsigned(intClientID)
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 default options

Export a BaseType from getting objects as JSON 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'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

```

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"] = 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 = "."\nSet objWMIService = GetObject("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 'BEGIN{{ print $1 "
72                 "script_type": "UnixShell"
73             },
74             {
75                 "_type": "query",
76                 "platform": "Mac",

```

```
77         "script": "netstat -rn | grep -v ";" | 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 }
```

```

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

```

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"] = 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 'unicode'>
```

### Invalid export basetype csv bad sort sub 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"] = [[]]
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 supplied
```

## Invalid export basetype xml bad minimal type

Export a BaseType from getting objects using a bad 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"] = 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

```
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 'unicod
```

### 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 controls
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': ['no_verify_done', 'verify_done', 'verify_success']}`

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\_son

**Maps a given TaniumPy object to the list of supported export formats for each object type, and the valid optional arguments**

- `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': {'handler': 'ask_manual'}}
```

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_over_time']
```

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: 'IPACAddress'}
```

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 str from if list contains any item from `i`

`i` : list of str

list of str 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 against 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 `xmldict` 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 `xmldict` 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 `xmldict` 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.ArgumentParser`

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.ArgumentParser`

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.ArgumentParser`

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.ArgumentParser`

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 str

list of lists, each list having two str - 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_supplie
test_valid_question_1_ask_manual_human_question_sensor_with_parameters_and_some_suppli
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_s
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 or 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.S 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 xmldict module

Makes working with XML feel like you are working with JSON

```
xmldict.parse(xml_input, encoding=None, expat=<module 'xml.parsers.expat' from
               '/Library/Python/2.7/site-packages/_xmlplus/parsers/expat.pyc'>,
               process_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 xmldict
>>> doc = xmldict.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-attrs 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
...
>>> xmldict.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
>>> xmldict.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
>>> xmldict.parse('<a>hello</a>', expat=defusedexpat.pyexpat)
OrderedDict([(u'a', u'hello')])
```

`xmldict.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

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