

# Single Console Endpoint Health

|                                                                        |                                                                                                                                                                                                                                                                                                                                                                                                             |
|------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Overview                                                               | The script will check the health of every Endpoint and Server in all Sophos Central Console                                                                                                                                                                                                                                                                                                                 |
| Install Python                                                         | Follow the Python install guide provided for your OS                                                                                                                                                                                                                                                                                                                                                        |
| Check you have requests installed                                      |                                                                                                                                                                                                                                                                                                                                                                                                             |
| Open Py.exe on Windows<br>Use the Terminal on a Mac                    | <div><div><div>AllAppsDocumentsSettingsWebMore</div><div>Best match</div><div><div><div><div>py</div><div>Run command</div></div></div><div>Search the web</div><div>py - See web results</div><div>Apps (4+)</div><div>Folders (1+)</div></div><div><div><div><div>py</div><div>Run command</div></div><div>Open</div><div>Run as administrator</div><div>Open file location</div></div></div></div></div> |
|                                                                        | <div><div>C:\Windows\py.exe</div><div>Python 3.8.1 (tags/v3.8.1:1b293b6, Dec 18 2019, 22:39:24) [MSC v.1916 32 bit (Intel)] on win32<br/>Type "help", "copyright", "credits" or "license" for more information.<br/>&gt;&gt;&gt;</div></div>                                                                                                                                                                |
| Type - help('modules')<br><br>This will list all the modules installed |                                                                                                                                                                                                                                                                                                                                                                                                             |

```
C:\Windows\py.exe
>>> help('modules')

Please wait a moment while I gather a list of all available modules...

__future__      _tkinter          getpass          sched
__abc__          _tracemalloc      gettext          secrets
__ast__          _warnings         glob            select
__asyncio__      _weakref          gzip            selectors
__bisect__       _weakrefset       hashlib         setuptools
__blake2__       _winapi           heapq           shelve
__bootlocale__   _xxsubinterpreters hmac            shlex
__bz2__          abc              http            shutil
__codecs__       aifc             httplib         signal
__codecs_cn__    antigravity      idlelib         site
__codecs_hk__    argparse         imaplib         smtpd
__codecs_iso2022__ array           imghdr         smtplib
__codecs_jp__    ast              imp            sndhdr
__codecs_kr__    asynchat         importlib       socket
__codecs_tw__    asyncio         inspect        socketserver
__collections__  asyncore         io             sqlite3
__collections_abc__ atexit          ipaddress      sre_compile
__compat_pickle__ audioop          itertools      sre_constants
__compression__ base64           json           sre_parse
__contextvars__ bdb              keyword        ssl
__csv__          binascii         lib2to3         stat
__ctypes__       binhex           linecache      statistics
__ctypes_test__ bisect           locale         string
__datetime__     builtins         logging        stringprep
__decimal__      bz2             lzma           struct
__dummy_thread__ cProfile         mailbox        subprocess
__elementtree__ calendar       mailcap        sunau
__functools__    cgi             marshal        symbol
__hashlib__      cgitb           math           symtable
__heapq__        chunk           mimetypes      sys
__imp__          cmath           mmap           sysconfig
__io__           cmd             modulefinder   tabnanny
__json__         code            msilib         tarfile
__locale__       codecs          msvcrt         telnetlib
__lsprof__       codeop          multiprocessing tempfile
__lzma__         collections     netrc          test
__markupbase__   colorsys        nntplib        textwrap
__md5__          compileall      nt             this
__msi__          concurrent      ntpath         threading
__multibytecodec configparser     nturl2path     time
__multiprocessing contextlib       numbers        timeit
__opcode__       contextvars     opcode         tkinter
__operator__     copy           operator       token
__osx_support__  copyreg        optparse       tokenize
__overlapped__   crypt          os             trace
__pickle__       csv            parser         traceback
__py_abc__       ctypes         pathlib        tracemalloc
__pydecimal__    curses         pdb            tty
__pyio__         dataclasses     pickle         turtle
__queue__        datetime       pickletools    turtledemo
__random__       dbm            pip            types
__sha1__         decimal        pipes          typing
__sha256__       difflib        pkg_resources unicodedata
__sha3__         dis            pkgutil        unittest
__sha512__       distutils      platform       urllib
__signal__       doctest        plistlib       uu
__sitebuiltins__ dummy_threading poplib         uuid
__socket__       easy_install   posixpath      venv
__sqlite3__      email          pprint         warnings
__sre__          encodings      profile        wave
__ssl__          ensurepip      pstats         weakref
__stat__         enum          pty            webbrowser
__statistics__   errno          py_compile    winreg
__string__       faulthandler  pycldr        winsound
__strptime__    filecmp       pydoc         wsgiref
__struct__       fileinput     pydoc_data    xdrlib
__symtable__     fnmatch       pyexpat       xml
__testbuffer__   formatter      queue          xmlrpc
__testcapi__     fractions     quopri         xxsubtype
```

Note csv and datetime are installed

We will need to install some Modules

```
_testconsole    ftplib          random          zipapp
_testimportmultiple functools       re             zipfile
_testmultiphase gc              reprlib        zipimport
_thread         genericpath     rlcompleter    zlib
_threading_local getopt          runpy

Enter any module name to get more help.  Or, type "modules spam" to search
for modules whose name or summary contain the string "spam".

>>> _
```

PC

Open an Elevated Command Prompt

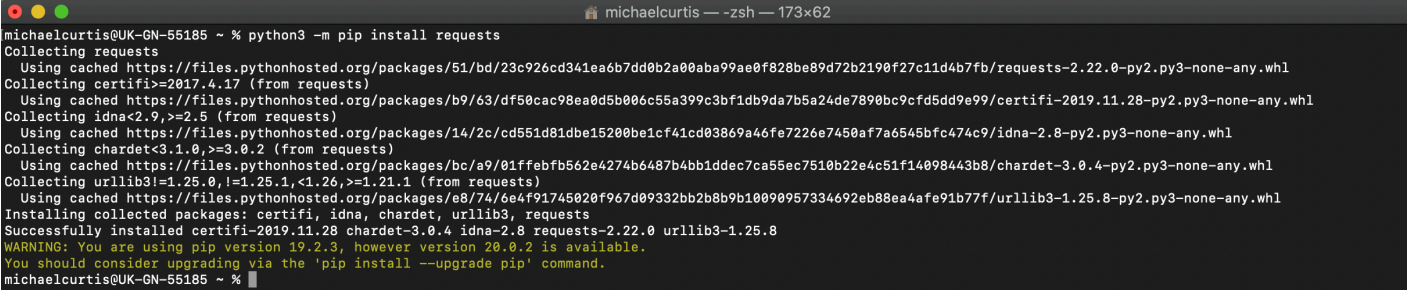
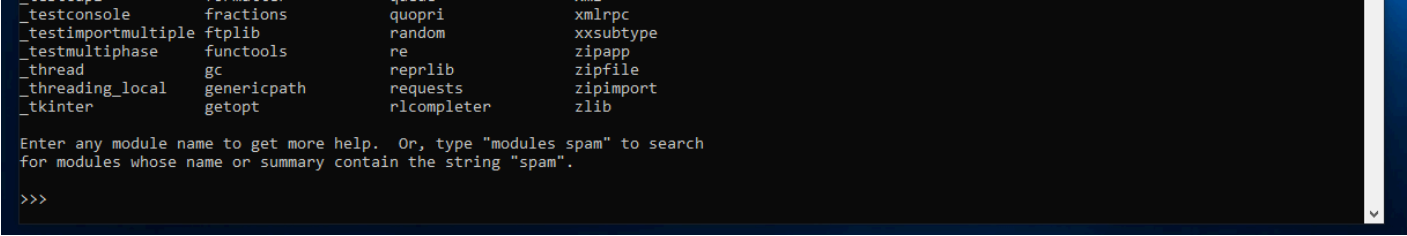
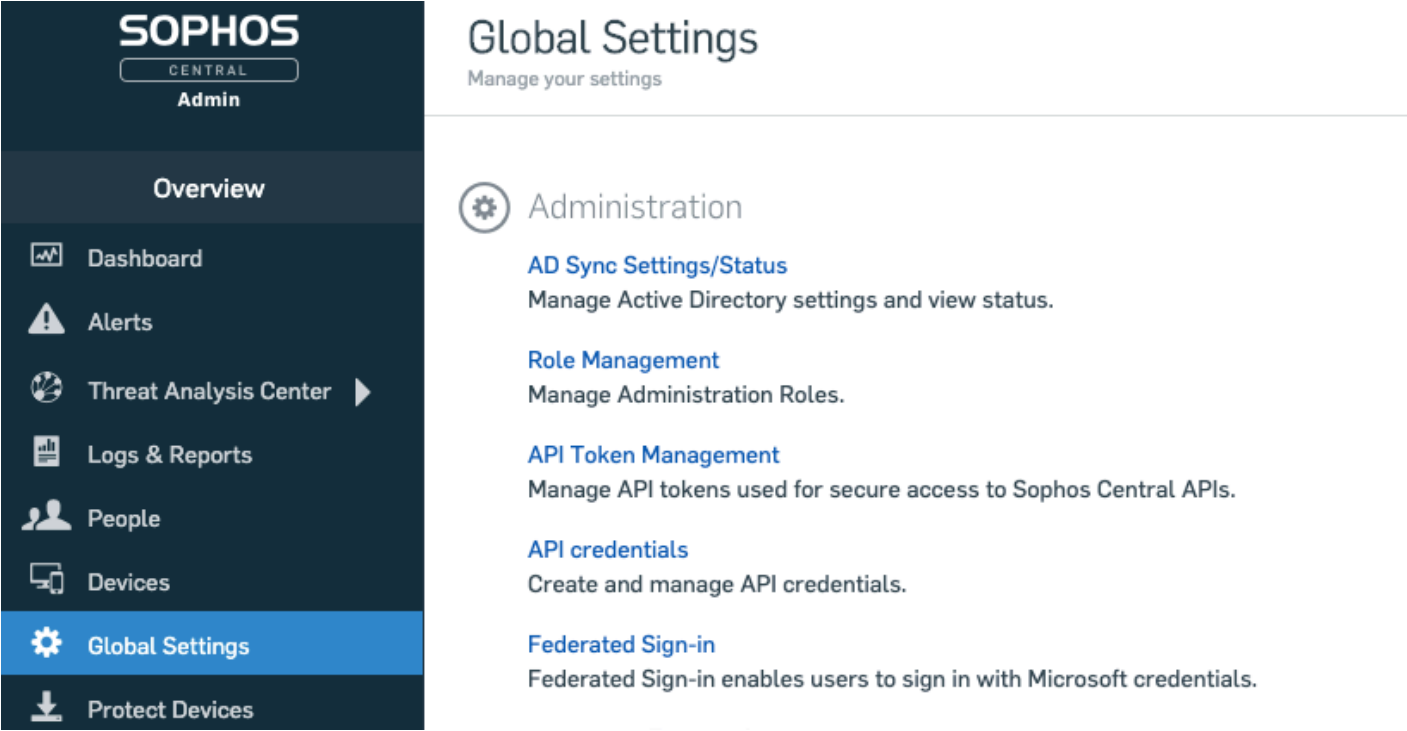
Type - python -m pip install requests

Note there is a module called request. We need requests

```
Command Prompt
Microsoft Windows [Version 10.0.18363.476]
(c) 2019 Microsoft Corporation. All rights reserved.

C:\Users\curtis.m>python -m pip install requests
Collecting requests
  Downloading https://files.pythonhosted.org/packages/51/bd/23c926cd341ea6b7dd0b2a00aba99ae0f828be89d72b2190f27c11d4b7fb
/requests-2.22.0-py2.py3-none-any.whl (57kB)
    |#####| 61kB 230kB/s
Collecting chardet<3.1.0,>=3.0.2 (from requests)
  Downloading https://files.pythonhosted.org/packages/bc/a9/01ffebfb562e4274b6487b4bb1dddec7ca55ec7510b22e4c51f14098443b8
/chardet-3.0.4-py2.py3-none-any.whl (133kB)
    |#####| 143kB 595kB/s
Collecting idna<2.9,>=2.5 (from requests)
  Downloading https://files.pythonhosted.org/packages/14/2c/cd551d81dbe15200be1cf41cd03869a46fe7226e7450af7a6545bfc474c9
/idna-2.8-py2.py3-none-any.whl (58kB)
    |#####| 61kB 2.0MB/s
Collecting urllib3!=1.25.0,!1.25.1,<1.26,>=1.21.1 (from requests)
  Downloading https://files.pythonhosted.org/packages/b4/40/a9837291310ee1ccc242ceb6ebfd9eb21539649f193a7c8c86ba15b98539
/urllib3-1.25.7-py2.py3-none-any.whl (125kB)
    |#####| 133kB 1.1MB/s
Collecting certifi>=2017.4.17 (from requests)
  Downloading https://files.pythonhosted.org/packages/b9/63/df50cac98ea0d5b006c55a399c3bf1db9da7b5a24de7890bc9cfd5dd9e99
/certifi-2019.11.28-py2.py3-none-any.whl (156kB)
    |#####| 163kB 1.1MB/s
Installing collected packages: chardet, idna, urllib3, certifi, requests
Successfully installed certifi-2019.11.28 chardet-3.0.4 idna-2.8 requests-2.22.0 urllib3-1.25.7
WARNING: You are using pip version 19.2.3, however version 19.3.1 is available.
You should consider upgrading via the 'python -m pip install --upgrade pip' command.

C:\Users\curtis.m>
```

|                                                                                                                                                                                           |                                                                                      |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|
|                                                                                                                                                                                           |                                                                                      |
| Mac                                                                                                                                                                                       | Open Terminal                                                                        |
| <p>Type - python3 -m pip install requests</p> <p>The 3 is important or it will install requests to version 2 of Python</p> <p>Note there is a module called request. We need requests</p> |   |
| <p>Note help('modules') now lists requests in the Python shell</p>                                                                                                                        |  |
| Log into Sophos Central.<br>We will need to make our API credentials                                                                                                                      |                                                                                      |
| Click on Global Settings                                                                                                                                                                  |  |
| Click API Credentials                                                                                                                                                                     |                                                                                      |
| Click Add                                                                                                                                                                                 |                                                                                      |

|                                                                                                                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |      |               |            |             |            |              |             |               |           |                                      |               |                    |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|---------------|------------|-------------|------------|--------------|-------------|---------------|-----------|--------------------------------------|---------------|--------------------|
|                                                                                                                                                                       | <div><div>Add credential</div><div><div>Credential name*</div><div>Script Access</div></div><div><div>Description</div><div>Script Access</div></div><div><div>Notes:</div><div><ul style="list-style-type: none"><li>Upon clicking the Add button, a Client ID and Client Secret will be generated.</li><li>Credentials will expire in 36 months</li></ul></div></div><div><div>Cancel</div><div>Add</div></div></div>                                                                                                                                       |      |               |            |             |            |              |             |               |           |                                      |               |                    |
| <div>Click show secret. Once you close this screen you won't be able to see this again</div> <div>Record this information. You will need it for the config file</div> | <div><div>API credential summary</div><table><tr><td>Name</td><td>Script Access</td></tr><tr><td>Created on</td><td>Feb 1, 2020</td></tr><tr><td>Expires on</td><td>Jan 31, 2023</td></tr><tr><td>Description</td><td>Script Access</td></tr><tr><td>Client ID</td><td>984bc1a1-02b6-44ff-89eb-6c1622c6cc2c</td></tr><tr><td>Client Secret</td><td>Show Client Secret</td></tr></table><div>Note: For security reasons, the Client Secret will only be shown one time. Click the Show Client Secret link only when you are ready to implement it.</div></div> | Name | Script Access | Created on | Feb 1, 2020 | Expires on | Jan 31, 2023 | Description | Script Access | Client ID | 984bc1a1-02b6-44ff-89eb-6c1622c6cc2c | Client Secret | Show Client Secret |
| Name                                                                                                                                                                  | Script Access                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |      |               |            |             |            |              |             |               |           |                                      |               |                    |
| Created on                                                                                                                                                            | Feb 1, 2020                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |      |               |            |             |            |              |             |               |           |                                      |               |                    |
| Expires on                                                                                                                                                            | Jan 31, 2023                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |      |               |            |             |            |              |             |               |           |                                      |               |                    |
| Description                                                                                                                                                           | Script Access                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |      |               |            |             |            |              |             |               |           |                                      |               |                    |
| Client ID                                                                                                                                                             | 984bc1a1-02b6-44ff-89eb-6c1622c6cc2c                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |      |               |            |             |            |              |             |               |           |                                      |               |                    |
| Client Secret                                                                                                                                                         | Show Client Secret                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |      |               |            |             |            |              |             |               |           |                                      |               |                    |
| We now need to edit the console_config.config                                                                                                                         | <div>[DEFAULT]</div> <div>ClientID:&lt;put clientID here&gt;</div> <div>ClientSecret:&lt;put clientSecret here&gt;</div> <div>[REPORT]</div> <div>ReportName:&lt;put report name here&gt;</div> <div>ReportFilePath:&lt;put file path here&gt;</div> <div>ConsoleName:&lt;put console name here&gt;</div>                                                                                                                                                                                                                                                     |      |               |            |             |            |              |             |               |           |                                      |               |                    |
| <div>Example</div> <div>Note the file path has a \ on the end</div>                                                                                                   | <div>[DEFAULT]</div> <div>ClientID:33d15ef8-3274-075743e8ff2f</div> <div>ClientSecret:d8a7160f094abb4bedb8f504891821129ca34989924cbdc37d2ef1cf7c4ef887</div> <div>[REPORT]</div> <div>ReportName:UK_PS_Health_</div> <div>ReportFilePath:c:\users\michael\desktop\reports\</div> <div>ConsoleName:UK PS South</div>                                                                                                                                                                                                                                           |      |               |            |             |            |              |             |               |           |                                      |               |                    |
| Make sure the config file is in the same folder as the script                                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |      |               |            |             |            |              |             |               |           |                                      |               |                    |
| If the file was sent to you as a .txt file change it to .py                                                                                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |      |               |            |             |            |              |             |               |           |                                      |               |                    |
| PC                                                                                                                                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |      |               |            |             |            |              |             |               |           |                                      |               |                    |
| From the cmd run the Python script                                                                                                                                    | python Console_Health v1.1.py                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |      |               |            |             |            |              |             |               |           |                                      |               |                    |
| Mac                                                                                                                                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |      |               |            |             |            |              |             |               |           |                                      |               |                    |
| From Terminal run the Python script                                                                                                                                   | python3 Console_Health v1.1.py                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |      |               |            |             |            |              |             |               |           |                                      |               |                    |

