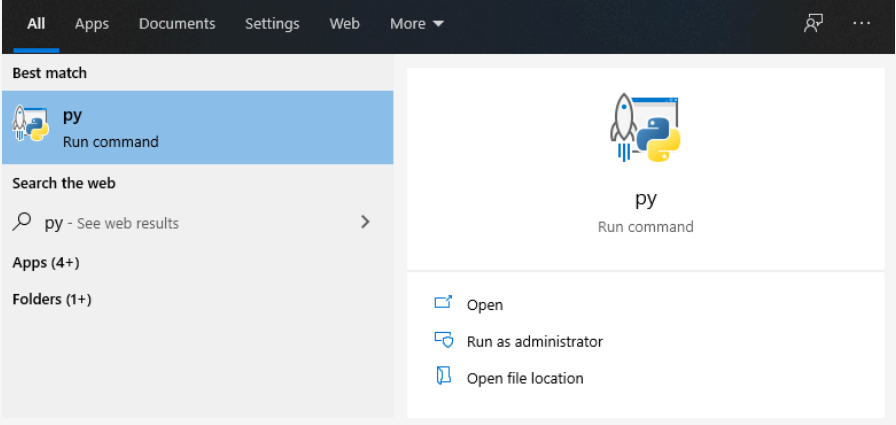
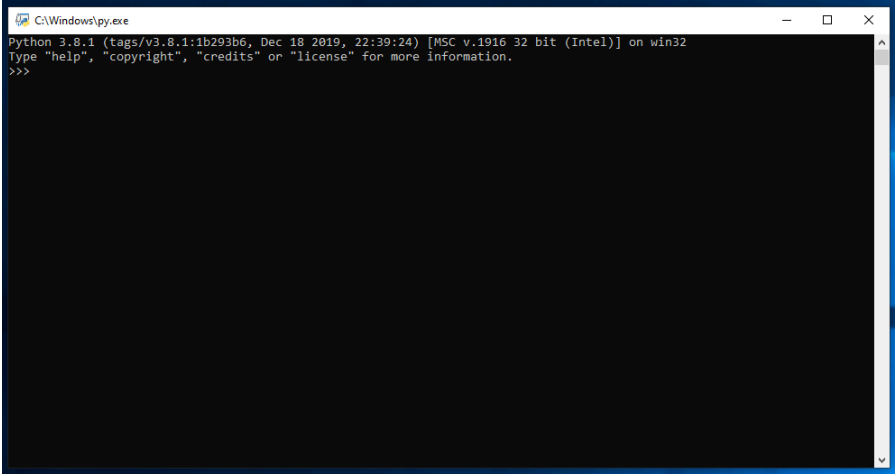


Overview	The script will check the health of every Endpoint and Server in all the Sophos Central Console/EBD or MSP
Install Python	Follow the Python install guide provided for your OS
Check you have requests installed	
Open Py.exe on Windows Use the Terminal on a Mac	 <p>The screenshot shows the Windows Start menu search interface. The search bar at the top contains the text 'py'. Below the search bar, the results are categorized into 'Best match', 'Search the web', 'Apps (4+)', and 'Folders (1+)'. Under 'Best match', there is a result for 'py' with the subtext 'Run command'. To the right of this, there is a larger preview area showing the 'py' icon and the text 'Run command'. Below the preview area, there are three options: 'Open', 'Run as administrator', and 'Open file location'.</p>
	 <p>The screenshot shows a Windows command prompt window titled 'C:\Windows\py.exe'. The prompt displays the following text: 'Python 3.8.1 (tags/v3.8.1:1b293b6, Dec 18 2019, 22:39:24) [MSC v.1916 32 bit (Intel)] on win32'. Below this, it says 'Type "help", "copyright", "credits" or "license" for more information.' and then ' >>> '.</p>

Type - help('modules')

This will list all the modules installed

Note csv and datetime are installed

We will need to install some Modules

PC

Type - python -m pip install requests

Note there is a module called request. We need requests

Mac

```
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
__locale__      __xxsubinterpreters  hmac           shlex
__bz2__         abc             http            shutil
__codecs__      aifc            idlelib         signal
__codecs_cn__   antigravity     inspect         site
__codecs_hk__   argparse        json            smtpd
__codecs_iso2022  array          keyword         smtplib
__codecs_jp__   ast             importlib       sndhdr
__codecs_kr__   asyncio         io              socket
__codecs_tw__   asyncore        ipaddress       socketserver
__collections__ atexit           itertools       sqlite3
__collections_abc  audioop         json            sre_compile
__compat_pickle  base64          json            sre_constants
__compression__  bdb             keyword         sre_parse
__contextvars__  binascii        lib2to3         ssl
__csv__          binhex          linecache       stat
__ctypes__       bisect          locale          statistics
__datetime__     builtins        logging         string
__decimal__      bz2             lzma            stringprep
__dummy_thread__ cProfile         mailbox         struct
__elementtree__  calendar        mailcap         subprocess
__functools__    cgi             marshal         sunau
__hashlib__      cgilib          math            symbol
__heapq__         chunk           mimetypes       symtable
__imap__          cmd             mmap            sys
__io__            code            modulefinder    sysconfig
__json__          codecs          msilib          tabnanny
__locale__        codeop          multiprocessing tarfile
__lzma__           collections     netrc           telnetlib
__markupbase__    colorsys        nt              tempfile
__md5__           compileall      ntpath          test
__msi__           concurrent      nturl2path      textwrap
__multibytecodec  configparser    numbers         threading
__multiprocessing  contextlib      opcode          time
__opcode__        contextvars     operator         timeit
__operator__       copy            optparse        tkinter
__osx_support__   crypt           os              token
__overlapped__    csv            parser          tokenize
__pickle__         ctypes         pathlib         trace
__pyabc__          curses         pickle          traceback
__pydecimal__     dataclasses    pickletools    tracemalloc
__pyio__           datetime       pip            tty
__queue__          dcm            pipes           turtle
__random__         decimal        pkg_resources  turtledemo
__sha1__           diffiehellman  platform        types
__sha256__         dis            pip             typing
__sha3__           distutils      plistlib        unicodedata
__sha512__         doctest        poplib          unittest
__signal__         dummy_threading  posixpath       urllib
__sitebuiltins__  easy_install   pprint          uu
__socket__         email          profile         uuid
__sqlite3__        encodings      pstats         venv
__sre__            enum           py_compile     warnings
__ssl__            ensurepip      ply            wave
__stat__           errno          pycparser      weakref
__statistics__     faulthandler   pydoc           webbrowser
__string__         filecmp        pydoc_data     winreg
__strptime__      fileinput      pyexpat        winsound
__struct__         fmatch         queue           wsgiref
__symtable__       formatter      quopri          xdrlib
__testbuffer__     fractions      random          xml
__testcapi__       functools      re              xmlrpc
__testimportmultiple  gc            rellib         xxsubtype
__thread__         genericpath    reprlib
__threading_local__ getopt          ricompleter
__zipimport__      getopt          runpy
__zipfile__        random          zipfile
__zipimport__      re              zipimport
__zlib__           reprlib         zlib
```

```
__testconsole__  random          zipfile
__testimportmultiple  gc            rellib         zipimport
__thread__         genericpath    ricompleter    zlib
__threading_local__ getopt          runpy

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

>>> _
```

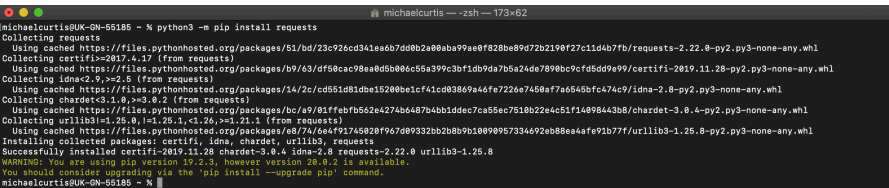
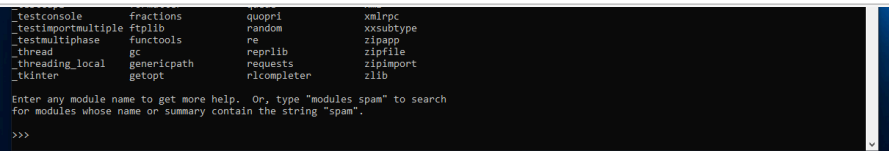
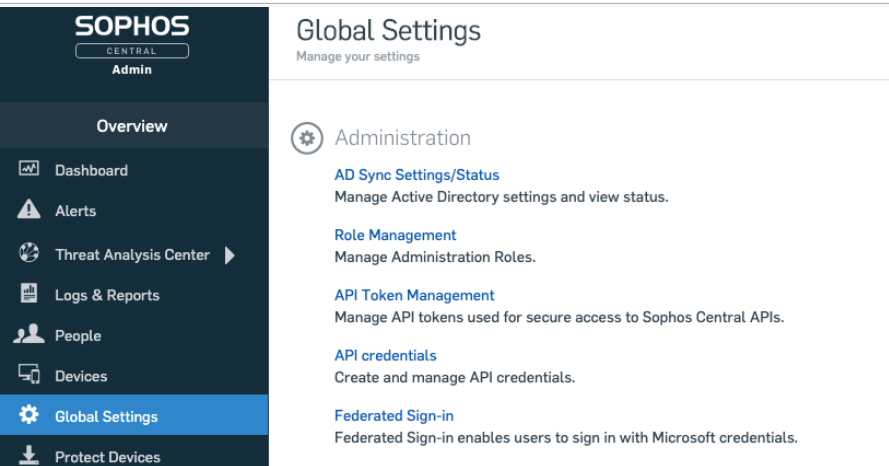
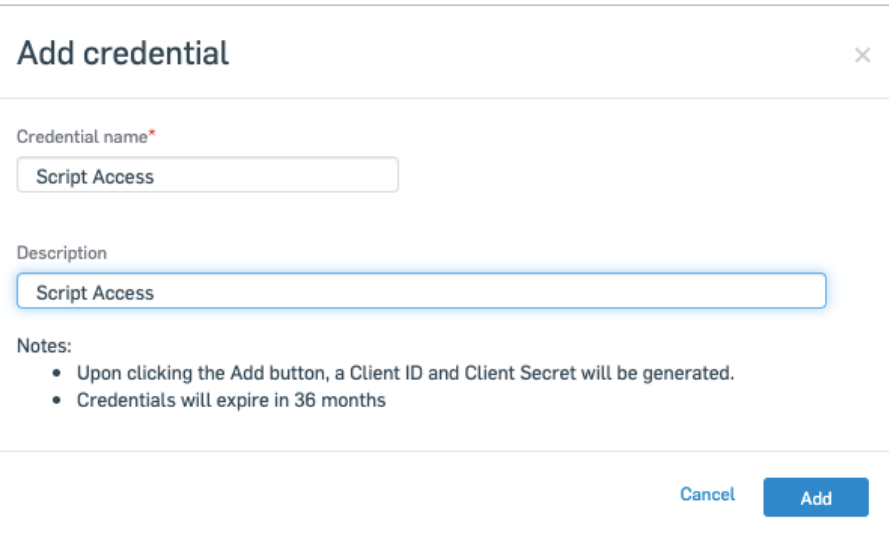
Open an Elevated Command Prompt

```
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/23c926cd341ea6b7dd0b2a0aba99ae0f828be89d72b2190f27c11d4b7fb/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/a9/01ffebfb562e4274b6487b4bb1dded7ca55ec7510b22e4c51f14098443b8/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<1.25.0,1.1.25.1,1.25.1,1.26,>=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/df50cac98ea8d5b086c55a399c3bf1db9da7b5a24de7890bc9cfd5dd9e99/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>
```

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>	
<p>Log into Sophos Central. We will need to make our API credentials</p>	
<p>Click on Global Settings</p>	
<p>Click API Credentials</p>	
<p>Click Add</p>	

<p>Click show secret. Once you close this screen you won't be able to see this again</p> <p>Record this information. You will need it for the config file</p>	<p>API credential summary</p> <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> <p>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.</p>	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												
<p>We now need to edit the Sophos_Central_Health.config file</p>	<p>[DEFAULT] ClientID:<put clientID here> ClientSecret:<put clientSecret here or leave blank to enter manually></p> <p>[REPORT] ReportName:<put report name here> ReportFilePath:<put file path here></p> <p>[Extra_Fields] MAC_Address:0 Versions:0 Windows_Build_Version:0 Cloud_Servers:0</p>												
<p>Extra Fields</p>	<ul style="list-style-type: none"> • MAC_Address - Adds the MAC address to the report • Versions - Adds Sophos component version to the report • Windows_Build_Version - Adds the Windows build version to the report • Cloud_Servers - Add Cloud servers (AWS, Azure, GCP) to the report 												
<p>Example</p>	<p>[DEFAULT] ClientID:33d15ef8-3274-075743e8ff2f ClientSecret:d8a7160f0821129ca34989924cbdc37d2ef1cf7c4ef887</p> <p>[REPORT] ReportName:UK_PS_Health_ ReportFilePath:c:\users\michael\desktop\reports\ ConsoleName:UK PS South</p> <p>[Extra_Fields] MAC_Address:0 Versions:0 Windows_Build_Version:1 Cloud_Servers:1</p>												

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	<code>python Sophos_Central_Health.py</code>
Mac	
From Terminal run the Python script	<code>python3 Sophos_Central_Health.py</code>