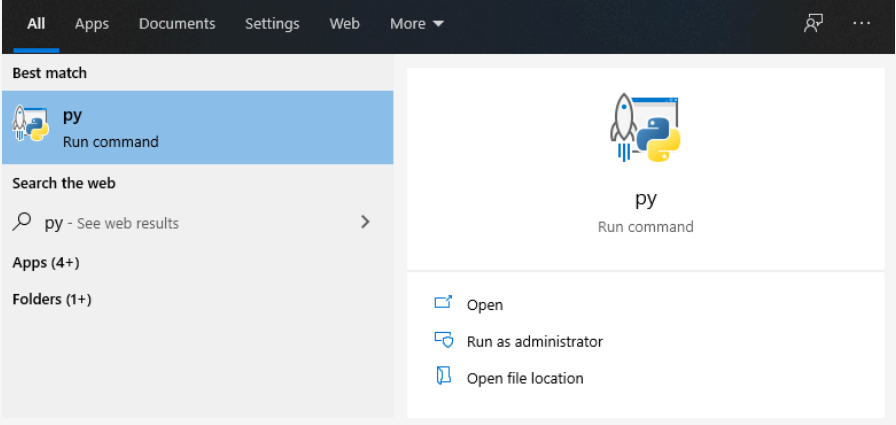
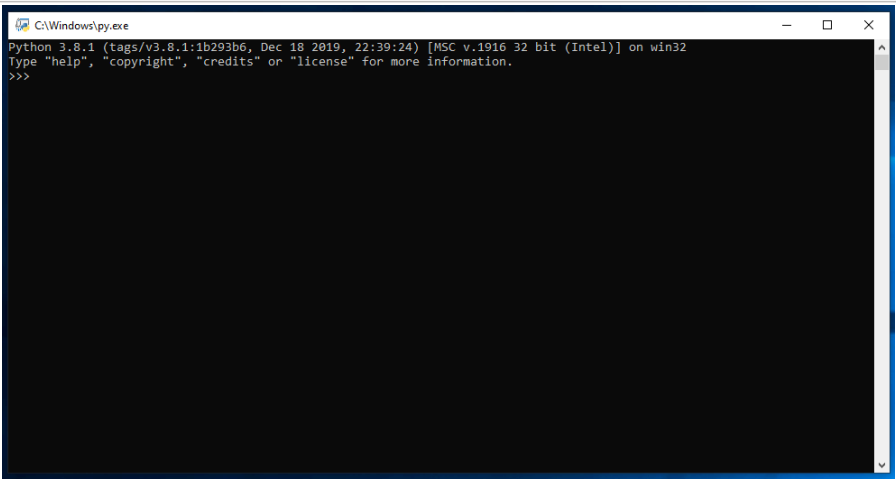


Overview	The script will check the health of every Endpoint and Server in all the Sophos Central Console/EBD or MSP
Install Python	Follow the Python install guide provided for your OS
Check you have requests installed	
Open Py.exe on Windows Use the Terminal on a Mac	 <p>The screenshot shows a Windows Start menu search for 'py'. The top navigation bar includes 'All', 'Apps', 'Documents', 'Settings', 'Web', and 'More'. Under 'Best match', there is a result for 'py' with a rocket icon and the text 'Run command'. Below this, there is a 'Search the web' section with a magnifying glass icon and the text 'py - See web results'. Further down, there are sections for 'Apps (4+)' and 'Folders (1+)'. On the right side of the search results, there is a larger card for 'py' with the same rocket icon and 'Run command' text. Below this card, there are three options: 'Open', 'Run as administrator', and 'Open file location', each with a corresponding icon.</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           html          shutil
__codecs      aifc          http          signal
__codecs_cn   antigravity   idlelib       site
__codecs_hk   argparse      imglib        smtpd
__codecs_iso2022  array        inghndr       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
__imap          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      ntntplib      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        tracec
__pydecimal      curses        pdb           tty
__pyio           dataclasses  pickle         turtle
__queue          datetime     pickletools    turtledemo
__random         dnm          pip            types
__sha1           decimal      pipes          typing
__sha256         difflib      pkg_resources  unicodedata
__sha3           dis          pgutil         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         ply            webbrowser
__statistics     errno        py_compile     winreg
__string         faulthandler  pycldr        winsound
__strptime       filecmp      pydoc_data    wsgiref
__struct         fileinput    pyexpat       xdrlib
__symtable       fmatch       queue          xml
__testbuffer     formatter    quopri         xmlrpc
__testcapi       fractions    xxsubtype
```

```
_testconsole  ftplib        random         zipfile
_testimportmultiple  functools     re             zipfile
_testmultiphase  gc            replib        zipimport
__thread         genericpath  rlecompleter  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 "span".

```
>>> _
```

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

Type - python3 -m pip install requests

The 3 is important or it will install requests to version 2 of Python

Note there is a module called request. We need requests

Note help('modules') now lists requests in the Python shell

Log into Sophos Central. We will need to make our API credentials

Click on Global Settings

Click API Credentials

Click Add

```
michaelcurtis@UK-04-55185 ~ % python3 -m pip install requests
Collecting requests
  Using cached https://files.pythonhosted.org/packages/51/bd/23c926cd341eab7d0bb2a08aba99ae0f828be89d72b2190f27c114b7fb/requests-2.22.0-py2.py3-none-any.whl
Collecting certifi<=2017.4.17 (from requests)
  Using cached https://files.pythonhosted.org/packages/b9/63/d59cac98ea8d5b086c55a399c3bf1db9da7b5a24de7890bc9cf5d5dd9e99/certifi-2019.11.28-py2.py3-none-any.whl
Collecting idna<2.9,>=2.5 (from requests)
  Using cached https://files.pythonhosted.org/packages/14/2c/cd551d81b0e15200be1cf41cd98369a44fe7226e7450af7a6545bfc474c9/idna-2.8-py2.py3-none-any.whl
Collecting chardet<3.1.0,>=3.0.2 (from requests)
  Using cached https://files.pythonhosted.org/packages/e8/74/6e4f91745028f947d99332b2b899b18099997334692eb88ea4afe91b77f/urllib3-1.25.8-py2.py3-none-any.whl
Installing collected packages: certifi, idna, chardet, urllib3, requests
Successfully installed certifi-2019.11.28 chardet-3.0.4 idna-2.8 requests-2.22.0 urllib3-1.25.8
WARNING: You are using pip version 19.2.3, however version 20.0.2 is available.
You should consider upgrading via the 'pip install --upgrade pip' command.
michaelcurtis@UK-04-55185 ~ %
```

```
-testconsole fractions quopri walrpc
-testimportmultiple ftplib random xxsubtype
-testmultiphase functools re zipapp
-thread gc reprlib zipfile
-threading_local genericpath requests zipimport
-tkinter getopt ricompleter zlib

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

>>>
```

SOPHOS

CENTRAL

Admin

Overview

- Dashboard
- Alerts
- Threat Analysis Center
- Logs & Reports
- People
- Devices
- Global Settings**
- Protect Devices

Global Settings

Manage your settings

Administration

- [AD Sync Settings/Status](#)
Manage Active Directory settings and view status.
- [Role Management](#)
Manage Administration Roles.
- [API Token Management](#)
Manage API tokens used for secure access to Sophos Central APIs.
- [API credentials](#)
Create and manage API credentials.
- [Federated Sign-in](#)
Federated Sign-in enables users to sign in with Microsoft credentials.

Add credential

×

Credential name*

Description

Notes:

- Upon clicking the Add button, a Client ID and Client Secret will be generated.
- Credentials will expire in 36 months

Cancel Add

<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>	<pre>[DEFAULT] ClientID:<put clientID here> ClientSecret:<put clientSecret here> [REPORT] ReportName:<put report name here> ReportFilePath:<put file path here> [Extra_Fields] MAC_Address:0 Versions:0 Windows_Build_Version:0 Cloud_Servers:0</pre>												
<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>	<pre>[DEFAULT] ClientID:33d15ef8-3274-075743e8ff2f ClientSecret:d8a7160f0821129ca34989924cbdc37d2ef1cf7c4ef887 [REPORT] ReportName:UK_PS_Health_ ReportFilePath:c:\users\michael\desktop\reports\ ConsoleName:UK PS South [Extra_Fields] MAC_Address:0 Versions:0 Windows_Build_Version:1 Cloud_Servers:1</pre>												

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>