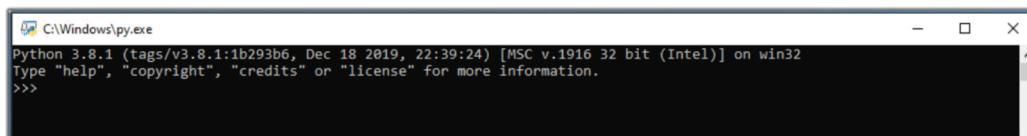
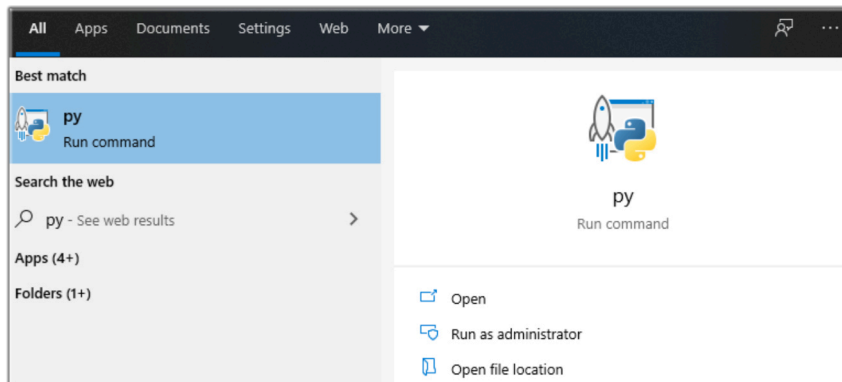


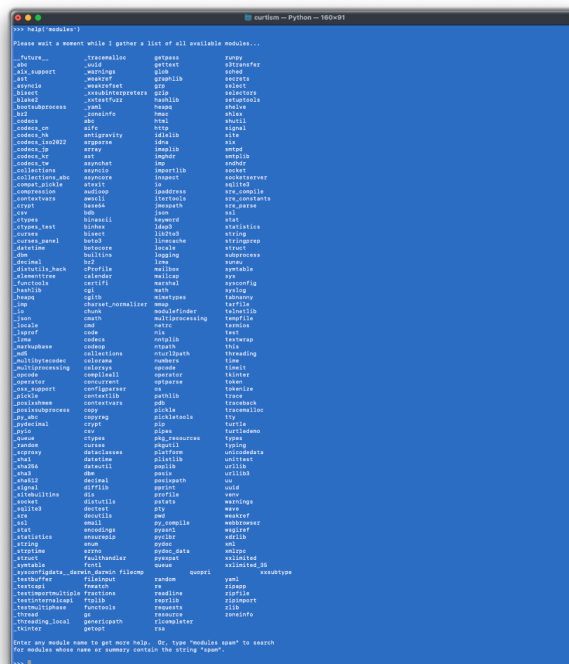
Sophos Central Health Report

The script will check the health of every Endpoint and Server in Sophos Central Console/Sophos Central Enterprise Dashboard or MSP

Make sure you have the 'requests' module installed. To do this open py.exe (Windows) or Terminal on a Mac



Type, help('modules'). This will list all the modules installed. Note csv and datetime are already installed. If 'requests' is not installed we will need to install it



Install Modules

PC

Open an Elevated Command Prompt

Type - `python -m pip install requests`

Note there is a module called 'request'. We need 'requests'

```
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
```

Mac

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

```
michaelcurtis@UK-GN-55185 ~ % python3 -m pip install requests
Collecting requests
  Using cached https://files.pythonhosted.org/packages/51/bd/23c926cd341ea6b7dd0b2a00aba99ae0f828be89d72b2190f27c11d4b7fb/requests-2.22.0-py3-none-any.whl
Using cached https://files.pythonhosted.org/packages/b9/63/df50cac98ea0d5b006c55a399c3bf1db9da7b5a24de7890bc9cfd5dd9e99/certifi-2019.11.28-py3-none-any.whl
Collecting idna<2.9,>=2.5 (from requests)
  Using cached https://files.pythonhosted.org/packages/14/2c/cd551d81dbe15200be1cf41cd03869a46fe7226e7450af7a6545bfc474c9/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/bc/a9/01ffebfb562e4274b6487b4bb1dddec7ca55ec7510b22e4c51f14098443b8/chardet-3.0.4-py2.py3-none-any.whl
Collecting urllib3!=1.25.0,!1.25.1,<1.26,>=1.21.1 (from requests)
  Using cached https://files.pythonhosted.org/packages/e8/7a/6e4f91745020f967d09332bb2bb9b10090957334692eb88ea4afe91b77f/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-GN-55185 ~ %
```

Now rerun the help('modules') command. It now lists requests in the Python shell

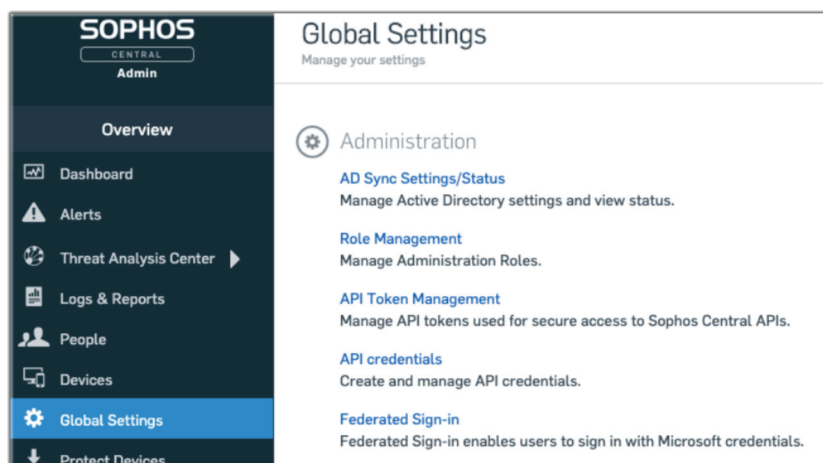
```
_testconsole      fractions      quopri          xmlrpc
_testimportmultiple ftplib        random          xxsubtype
_testmultiphase   functools     re              zipapp
_thread           gc            reprlib         zipfile
_threading_local  genericpath   requests        zipimport
_tkinter          getopt        rlcopleter      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".

>>>
```

Setting Up Sophos Central API Keys

Log into Sophos Central. We will need to make our API credentials. Click on Global Settings. For Sophos Central Enterprise Dashboard it is under Settings & Policies



Click API Credentials Management

The screenshot shows a 'Add credential' dialog box. It has a title bar with a close button. Inside, there is a 'Credential name*' field with the text 'Script Access'. Below it is a 'Description' field, also containing 'Script Access'. A 'Notes' section contains two bullet points: 'Upon clicking the Add button, a Client ID and Client Secret will be generated.' and 'Credentials will expire in 36 months'. At the bottom right are 'Cancel' and 'Add' buttons.

Click show secret. Once you close this screen you won't be able to see this again

Record this information. Store these keys in a password manager. You will need it for the config file



API credential summary	
Name	Script Access
Created on	Feb 1, 2020
Expires on	Jan 31, 2023
Description	Script Access
Client ID	984bc1a1-02b6-44ff-89eb-6c1622c8cc2c Copy
Client Secret	Show Client Secret

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.

We now need to edit the Sophos_Central_Health.config file. Do not leave the ClientSecret in the config file post testing. Leave it blank to be challenged when the script is run

Setting Up The Config File

[DEFAULT]

Do not leave the ClientSecret in the config file

ClientID:<put clientID here>

ClientSecret:<put clientSecret here or leave blank to enter manually>

[REPORT]

ReportName:<put report name here>

ReportFilePath:<put file path here>

[EXTRA_FIELDS]

0 is off, 1 is ON

MAC_Address:0

Versions:0

Windows_Build_Version:1

Cloud_Servers:1

Include_Alerts:1

Full_Services_List:0

SplitEDBReports:0

IncludeSubEstateID:0

The [EXTRA_FIELDS] are used for the following functions

[EXTRA_FIELDS]

- # 0 is off, 1 is ON
- MAC_Address: Adds the computers MAC address to the report
- Versions: Adds the components versions to the report
- Windows_Build_Version: Adds the Windows build versions to the report
- Cloud_Servers: Adds the Azure, GCP or AWS ID to the report
- Include_Alerts: Adds the Alerts to the report
- Full_Services_List: List all services and their state to the report
- SplitEDBReports: Split sub estates into separate reports
- IncludeSubEstateID: Future use

Example

[DEFAULT]

Do not leave the ClientSecret in the config file

ClientID:33d15ef8-3274-075743e8ff2f

ClientSecret:d8a7160f08211294989924cbdc37d2ef1cf7c4ef887

[REPORT]

ReportName:UK_PS_Health_

ReportFilePath:c:\users\michael\desktop\reports\

[EXTRA_FIELDS]

0 is off, 1 is ON

MAC_Address:0

Versions:0

Windows_Build_Version:1

Cloud_Servers:1

Include_Alerts:1

Full_Services_List:0

SplitEDBReports:0

IncludeSubEstateID:0

Running the script

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

On a PC run this command from within the folder with the scripts and config file

```
python Sophos_Central_Health.py
```

On a Mac run this command from within the folder with the scripts and config file

```
python3 Sophos_Central_Health.py
```