#### TryHackMe: Dead End?

The following writeup covers the room <u>Dead End?</u>, which is an hard difficulty room that involves analysing a memory dump using volatility and a disk image using FTK Imager. I was able to complete most of the questions, excluding the last 2 in the disk image section, so I highly recommend checking out this <u>writeup</u>.

**Scenario:** An in-depth analysis of specific endpoints is reserved for those you're certain to have been compromised. It is usually done to understand how specific adversary tools or malwares work on the endpoint level; the lessons learned here are applied to the rest of the incident.

You're presented with two main artefacts: a memory dump and a disk image. Can you follow the artefact trail and find the flag?

# What binary gives the most apparent sign of suspicious activity in the given memory image?

#### Use the full path of the artefact.

When investigating a memory image, I like to start by listing all the running processes by using the pslist plugin:

```
python3 vol.py -f ../RobertMemdump/memdump.mem windows.pslist
```

This took a relatively long time (maybe 1-2 minutes), however, once it finished, we can see a large number of svchost.exe processes:

928 804 svchost.exe 0xd28d6918080 1 - 0 False 2024-05-14 20:54:21.000000 N/A Disable 948 804 svchost.exe 0xd28d6914080 15 - 0 False 2024-05-14 20:54:21.000000 N/A Disable 972 fontdrvhost.ex 0xd28d6919080 5 - 1 False 2024-05-14 20:54:21.000000 N/A Disable 972 684 fontdrvhost.ex 0xd28d69109080 5 - 0 False 2024-05-14 20:54:21.000000 N/A Disable 512 804 svchost.exe 0xd28d69109080 11 - 0 False 2024-05-14 20:54:21.000000 N/A Disable 652 804 svchost.exe 0xd28d69109080 9 - 0 False 2024-05-14 20:54:22.000000 N/A Disable 1044 804 svchost.exe 0xd28d69826080 38 - 0 False 2024-05-14 20:54:23.000000 N/A Disable 1108 804 svchost.exe 0xd28d69826080 38 - 0 False 2024-05-14 20:54:23.000000 N/A Disable 1108 804 svchost.exe 0xd28d69818080 2 - 0 False 2024-05-14 20:54:23.000000 N/A Disable 1132 752 dwm.exe 0xd28d69853080 12 - 1 False 2024-05-14 20:54:23.000000 N/A Disable 1240 804 svchost.exe 0xd28d6987080 8 - 0 False 2024-05-14 20:54:23.000000 N/A Disable 1240 804 svchost.exe 0xd28d6987080 8 - 0 False 2024-05-14 20:54:23.000000 N/A Disable 1412 804 svchost.exe 0xd28d698080 2 - 0 False 2024-05-14 20:54:23.000000 N/A Disable 1412 804 svchost.exe 0xd28d698080 4 - 0 False 2024-05-14 20:54:23.000000 N/A Disable 1412 804 svchost.exe 0xd28d698080 4 - 0 False 2024-05-14 20:54:23.000000 N/A Disable 1412 804 svchost.exe 0xd28d698080 4 - 0 False 2024-05-14 20:54:23.000000 N/A Disable 1412 804 svchost.exe 0xd28d6980808 4 - 0 False 2024-05-14 20:54:23.000000 N/A Disable 1412 804 svchost.exe 0xd28d6980808 4 - 0 False 2024-05-14 20:54:23.000000 N/A Disable 1412 804 svchost.exe 0xd28d6980808 4 - 0 False 2024-05-14 20:54:23.000000 N/A Disable 1420 804 svchost.exe 0xd28d6980808 4 - 0 False 2024-05-14 20:54:23.000000 N/A Disable 1420 804 svchost.exe 0xd28d6980808 4 - 0 False 2024-05-14 20:54:23.000000 N/A Disable 1420 804 svchost.exe 0xd28d6980808 4 - 0 False 2024-05-14 20:54:23.000000 N/A Disable 1420 804 svchost.exe 0xd28d6980808 4 - 0 False 2024-05-14 20:54:23.000000 N/A Disable 1420 804 svchost.exe 0xd28d6980808 4 - 0 False 2024-05-14 20:54:23.0
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1428 804 svchost.exe 0xd28d698d5080 7 - 0 False 2024-05-14 20:54:23.000000 N/A Disable
1504 804 WUDFHost.exe 0xd28d6995f0c0 8 - 0 False 2024-05-14 20:54:23.000000 N/A Disable
1520 804 svchost.exe 0xd28d69927080 4 - 0 False 2024-05-14 20:54:23.000000 N/A Disable
1528 804 svchost.exe 0xd28d69925080 6 - 0 False 2024-05-14 20:54:23.000000 N/A Disable
1588 804 svchost.exe 0xd28d699a7080 7 - 0 False 2024-05-14 20:54:23.000000 N/A Disable
1628 804 svchost.exe 0xd28d69979080 9 - 0 False 2024-05-14 20:54:24.000000 N/A Disable
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1704 804 svchost.exe 0xd28d699d6080 5 - 0 False 2024-05-14 20:54:24.000000 N/A Disable
1712 804 svchost.exe 0xd28d699c8080 5 - 0 False 2024-05-14 20:54:24.000000 N/A Disable
1740 804 svchost.exe 0xd28d699c2080 12 - 0 False 2024-05-14 20:54:24.000000 N/A Disable
1816 804 svchost.exe 0xd28d69a9b080 8 - 0 False 2024-05-14 20:54:24.000000 N/A Disable
1880 804 svchost.exe 0xd28d69ad4080 12 - 0 False 2024-05-14 20:54:24.000000 N/A Disable
1952 804 svchost.exe 0xd28d699bc280 9 - 0 False 2024-05-14 20:54:24.000000 N/A Disable
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2332 804 svchost.exe 0xd28d69c43080 9 - 0 False 2024-05-14 20:54:24.000000 N/A Disable
2364 804 svchost.exe 0xd28d69c61080 8 - 0 False 2024-05-14 20:54:24.000000 N/A Disable
2452 804 spoolsv.exe 0xd28d69c9c080 11 - 0 False 2024-05-14 20:54:24.000000 N/A Disable
2460 804 svchost.exe 0xd28d69b9c080 5 - 0 False 2024-05-14 20:54:24.000000 N/A Disable
2512 804 svchost.exe 0xd28d690ca080 8 - 0 False 2024-05-14 20:54:25.000000 N/A Disable
2520 804 svchost.exe 0xd28d69c8b080 10 - 0 False 2024-05-14 20:54:25.000000 N/A Disable
2560 804 svchost.exe 0xd28d69cd8080 2 - 0 False 2024-05-14 20:54:25.000000 N/A Disable
2612 804 svchost.exe 0xd28d69ca1080 3 - 0 False 2024-05-14 20:54:25.000000 N/A Disable

Whilst this in and of itself is not an indicator of malicious activity, let's use the pstree plugin to see the file path:

And boom, we have svchost being launched in the C:\Tools\ directory which is not the typical path of C:\Windows\system32:

 $\label{lem:new} $$N/A $ \end{tabular} $$ \end{tabular} $$N/A $ \end{tabular} $$ \end{tabular} $$$ \end{tabular} $$$ \end{tabular} $$$ \end{t$ 

Answer: C:\Tools\svchost.exe

The answer above shares the same parent process with another binary that references a .txt file - what is the full path of this .txt file?

Based on the output of the pstree plugin, we know that the PPID of this svchost.exe instance is 1036, so we can search for this using the pstree plugin:

python3 vol.py -f ../RobertMemdump/memdump.mem windows.pstree --pid 1036

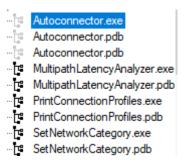
C:\Users\Bobby\Documents\tmp\part2.txt

Answer: C:\Users\Bobby\Documents\tmp\part2.txt

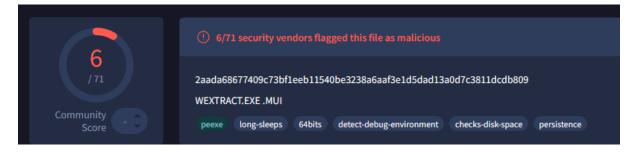
What binary gives the most apparent sign of suspicious activity in the given disk image?

Use the full path of the artefact.

After importing the disk image into FTK Imager, and looking through the file system, I came across an interesting binary located at C:\Tools\windows-networking-tools-master\windows-networking-tools-master\LatestBuilds\x64\Autoconnector.exe



I right-clicked the binary and exported the file hash so we can check it against VirusTotal:

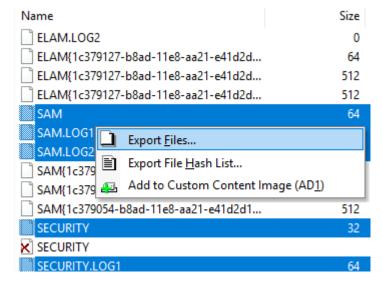


Whilst 6 results isn't anything crazy, it does indicate that this file is likely malicious.

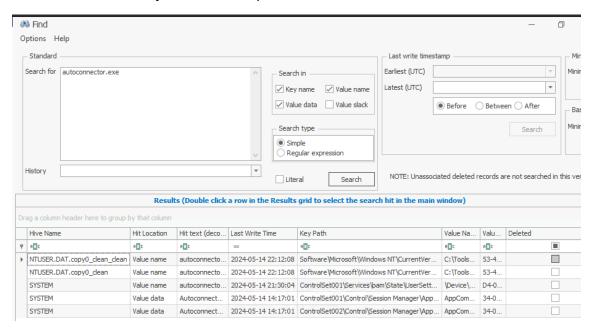
Answer: C:\Tools\windows-networking-tools-master\windows-networking-tools-master\LatestBuilds\x64\Autoconnector.exe

#### What is the full registry path where the existence of the binary above is confirmed?

Start by dumping all the registry hives found in C:\Windows\system32\config:



You can now import all the needed hives into RegistryExplorer, including their transaction logs. We can now use the keyboard search option to look for Autoconnector.exe:



ControlSet001\Services\bam\State\UserSettings\S-1-5-21-1966530601-3185510712-10604624-1008

Answer: Key Path

 $ControlSet001\\Services\\bam\\State\\UserSettings\\S-1-5-21-1966530601-3185510712-10604624-1008$ 

### What is the content of "Part2"?

faDB3XzJfcDF2T1R9

## What is the flag?

THM{6l4D\_y0u\_kNOw\_h0w\_2\_p1vOT}