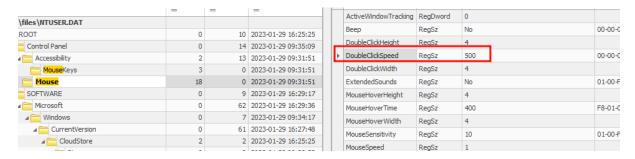
Digital Forensics-Lab#02

Ahmad Abdullah i22-1609

Task 1: What's the mouse double-click speed?

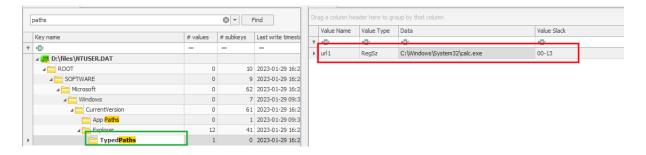
After opening the provided NTUSER.DAT in RegistryExplorer.exe we were required to find pieces of information. In this task, we were asked to find the double-click speed of the Mouse which was **500**.



Task 2: What's the most recent typed path accessed as recorded in the registry?

This is easily doable if you know what is the name of the registry key where this entry is stored but if you don't know you can just google 'Recent Typed path Registry Key' and it will tell you the complete path. The most recent path typed in Explorer was:

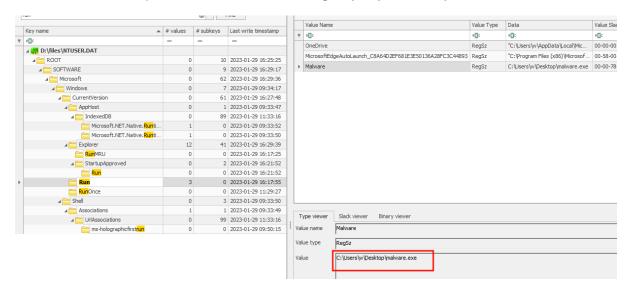
C:\Windows\System32\calc.exe



Task 3: What's the new value added to the registry by the malware to establish persistence over the system?

This is the same as above. You need to google 'registry keys that malware could use for persistence' and you will be presented with some of the most common keys which in this case was *Run*. You can search 'run' in the search box and will be given some results. Now, the only thing that remains is to click on the right one.

C:\Users\w\Desktop\malware.exe was the registry key added by the malware.



Task 4: What are the username and password stored in the saved logins?

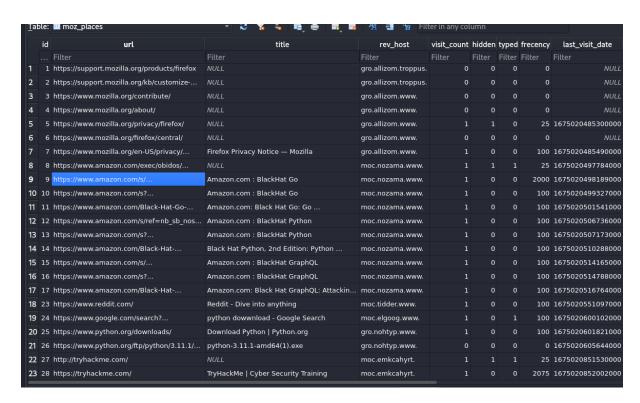
It is commonly known that browsers such as Firefox save login data on local machines. So using a Python script we found on Git Hub that decrypts the passwords of a browser we found the username, password and the site that it used on.

```
(kali® kali)-[~/Desktop/firefox_decrypt-main]
$ python firefox_decrypt.py /home/kali/Desktop/Firefox/
Select the Mozilla profile you wish to decrypt
1 → Profiles/83bm17p1.default
2 → Profiles/s6upyldt.default-release
2

Website: https://www.reddit.com
Username: 'hackerman'
Password: 'sup3rs3cur3p4ssw0rd'
```

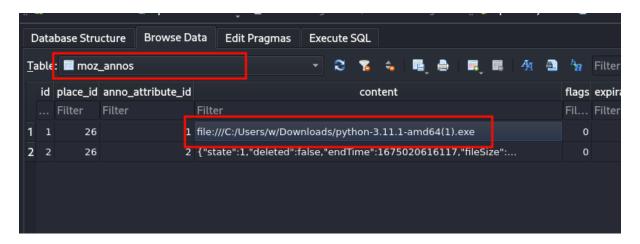
Task 5: The most Frequent website is amazon.com.

Using SQLite browser which is available for both Windows and Linux, we can look at the information that is in SQL databases. With this we were able to look at the most frequent website visits.



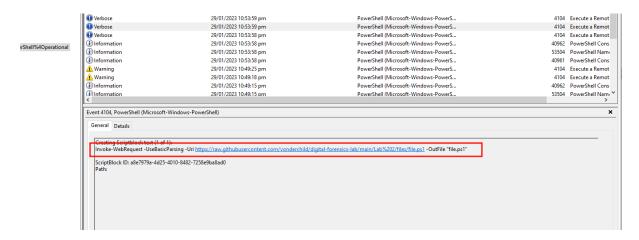
Task 6: What's the name of the file downloaded by the suspect?

Using the same technique as above we also found the recent download which is *python-3.11.1-amd64(1).exe*.



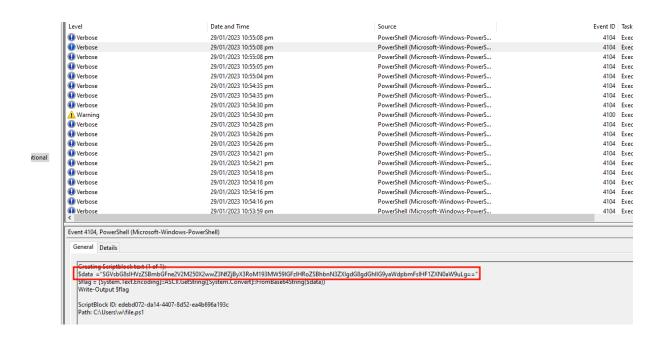
Task 7: What's the command executed by the attacker to download a file on the system?

The Attacker invoked a web request to download a PowerShell script 'file.ps1'.



Task 8: Can you analyze the downloaded file and understand what's the purpose of that file?

The file has some hash in its data which we copied and pasted in Cyberchef website.



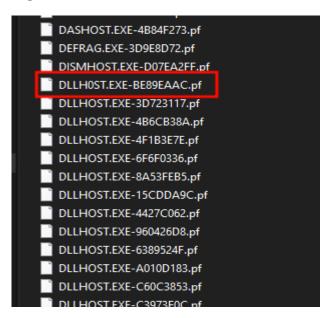
Cyberchef cooked with some little base64 seasoning and presented the dish with a little flag for beauty.



flag{ev3nt_l0gs_f0r_th3_w1n}

Task 8: Given the Prefetch Files: Can you locate the path for the malicious program? [files/Prefetch.zip]

When taking an overview of the files in the prefetch folder, all files looked normal. After closer inspection, we found out that the attacker used Obfuscation technique to hide the malicious file among the normal ones.



We used a utility 'PECmd' to dump all the information related to files or programs that were run. In this case a file having path

\USERS\WORK\APPDATA\LOCAL\TEMP\DLLH0ST.EXE

```
Executable name: DLLH0ST.EXE
Hash: BEB9EAAC
File size (bytes): 8,122
Version: Windows 10 or Windows 11
Run count: 1
Last run: 2023-12-07 15;23;41

Volume information:
#0: Name: \VOLUME(01d95894c528b62b-44c53985) Serial: 44C53985 Created: 2023-03-17 05:53:17 Directories: 11
Directories referenced: 11

00: \VOLUME(01d95894c528b62b-44c53985)\USERS
01: \VOLUME(01d95894c528b62b-44c53985)\USERS\WORK\APPDATA
02: \VOLUME(01d95894c528b62b-44c53985)\USERS\WORK\APPDATA
03: \VOLUME(01d95894c528b62b-44c53985)\USERS\WORK\APPDATA\LOCAL\MICROSOFT
05: \VOLUME(01d95894c528b62b-44c53985)\USERS\WORK\APPDATA\LOCAL\MICROSOFT
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06: \VOLUME(01d95894c528b62b-44c53985)\WINDOWS\SYSTEM32
07: \VOLUME(01d95894c528b62b-44c53985)\WINDOWS\SYSTEM32
08: \VOLUME(01d95894c528b62b-44c53985)\WINDOWS\SYSTEM32
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07: \VOLUME(01d95894c528b62b-44c53985)\WINDOWS\SYSTEM32\WOWG4WIN.DLL
07: \VOLUME(01d95894c528b62b-44c53985)\WI
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