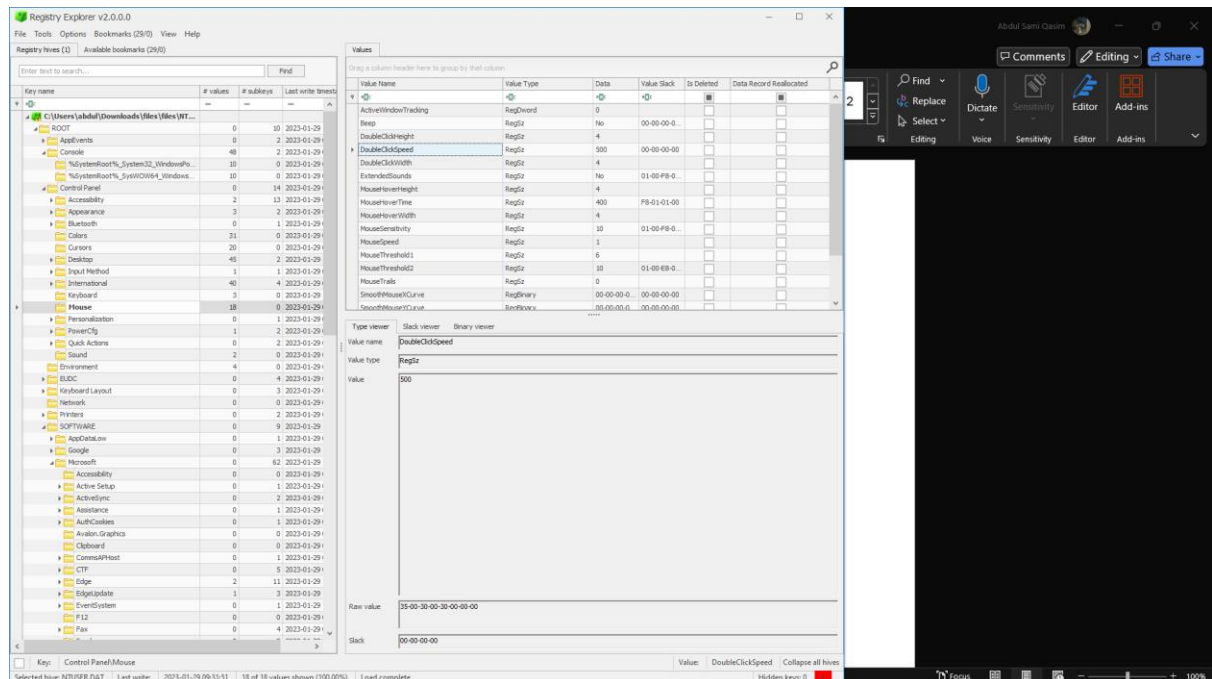


Important Instruction: Please do not submit your answers within this lab manual. Instead, create a separate document for your solutions and submit it using the following naming convention: i22xxxx_Lab02.

Given the registry file of a system that was compromised, answer the following [files/NTUSER.DAT]:

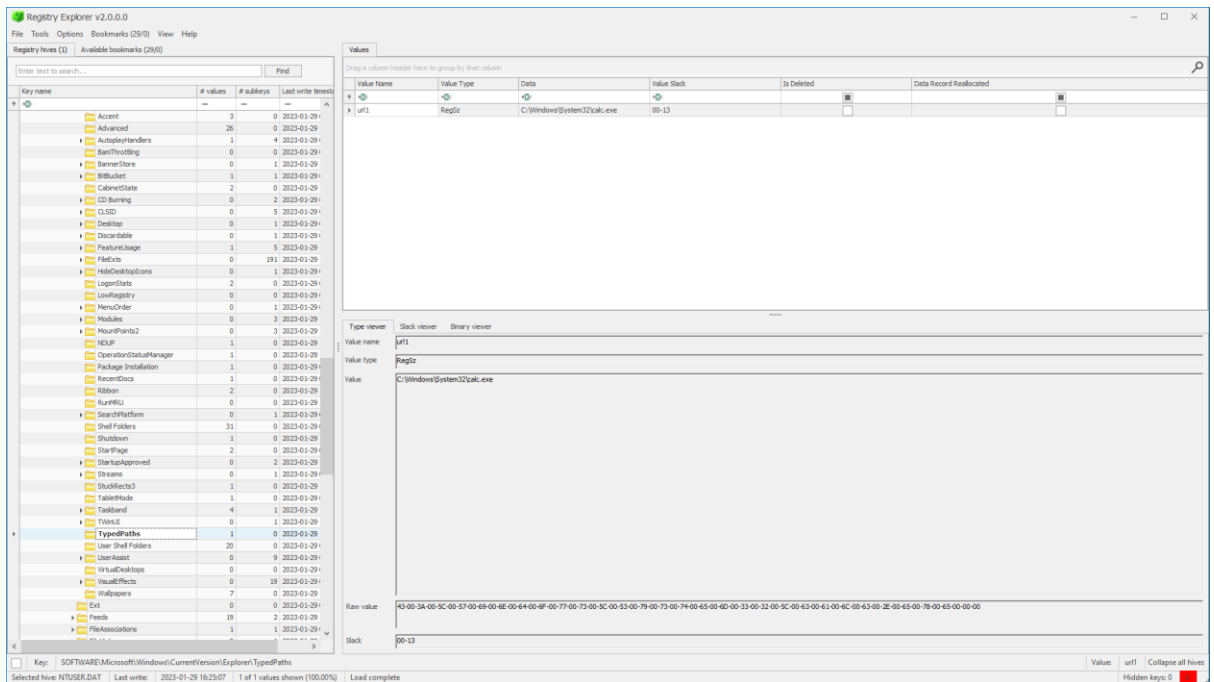
- What's the mouse double-click speed?

I opened the given NTUSER.DAT in Registry Explorer and went to the Control Panel, there I found the DoubleClickSpeed key which has the value 500.

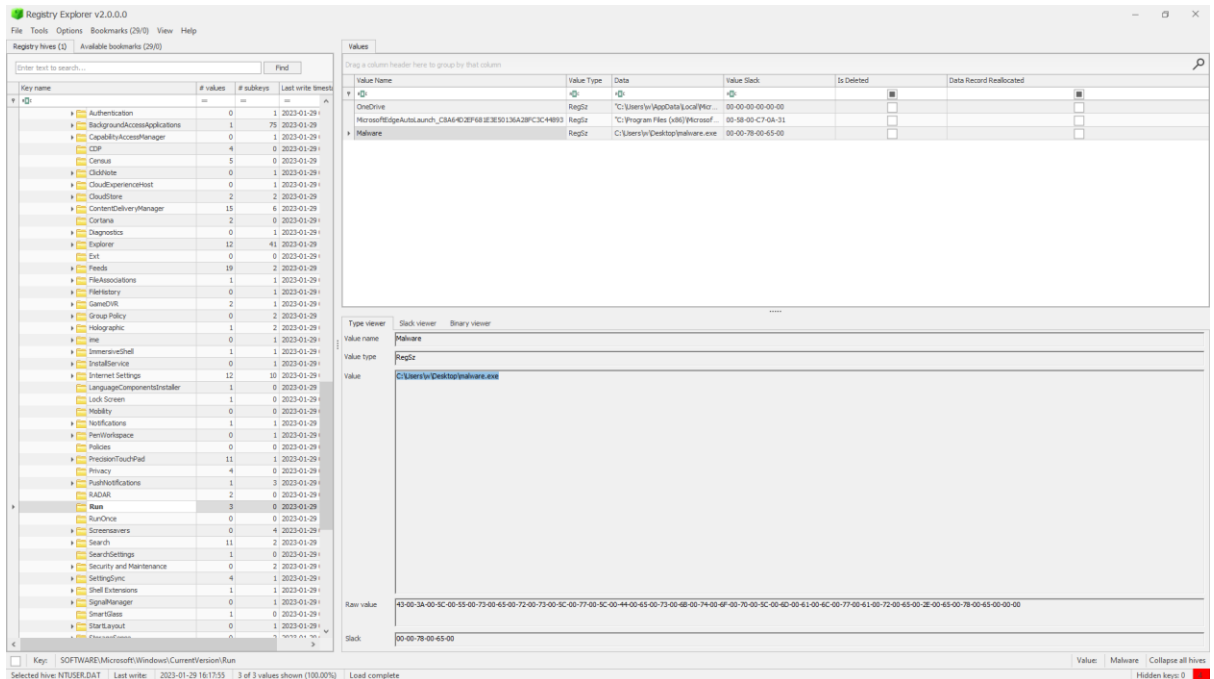


- What's the most recent typed path accessed as recorded in the registry?

The path that has the recent typed path key is
“HKCU\SOFTWARE\Microsoft\Windows\CurrentVersion\Explorer\TypedPaths”, The
most recent typed path is **C:\Windows\System32\calc.exe**



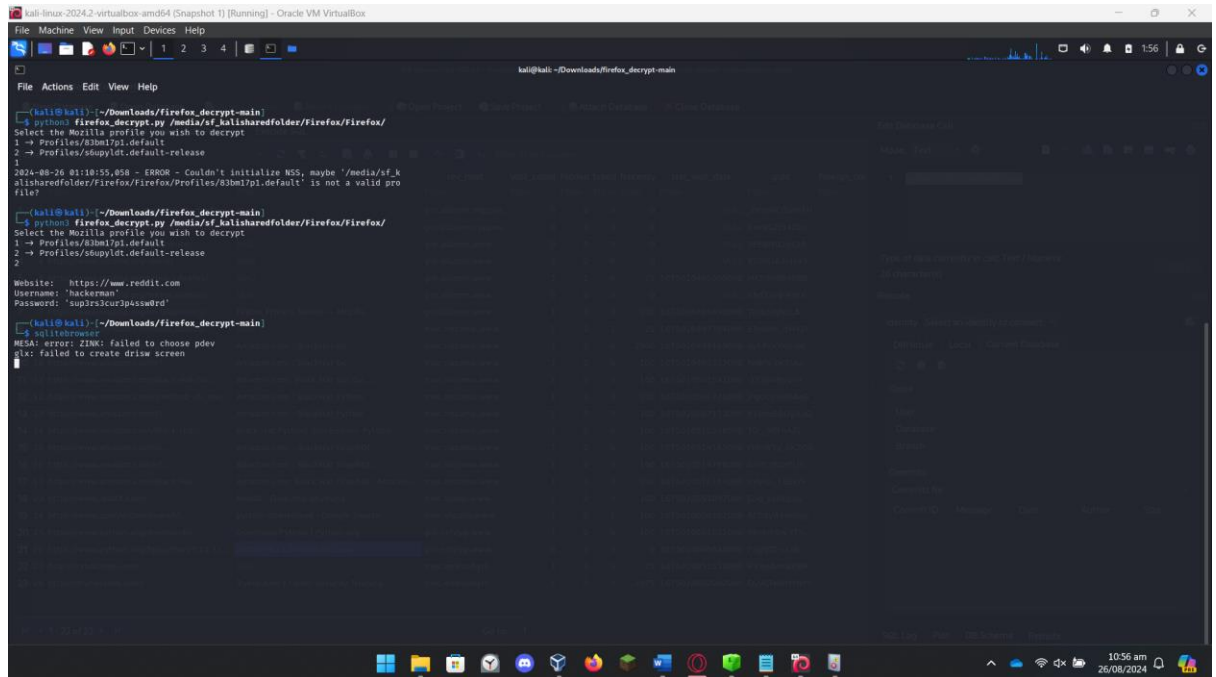
- What's the new value added to the registry by the malware to establish persistence over the system?
- I looked up paths where malware registry keys can be stored, I went to **HKEY_CURRENT_USER\Software\Microsoft\Windows\CurrentVersion\Run** and found a new key by the name of malware and it has the following value **C:\Users\w\Desktop\malware.exe**.



Given the Firefox profile of a suspect, answer the following [files/Firefox.zip]:

- What's the username and password stored in the saved logins?

The username and password stored are for reddit.



```
kali@kali:~/Downloads/firefox_decrypt-main$ python3 firefox_decrypt.py /media/sf_kalisharedfolder/Firefox/Firefox/
Select the Mozilla profile you wish to decrypt
1 -> Profiles/83bm17pl.default
2 -> Profiles/sdpyltd.default-release

2024-08-26 01:10:55,058 - ERROR - Couldn't initialize NSS, maybe '/media/sf_kalisharedfolder/Firefox/Firefox/Profiles/83bm17pl.default' is not a valid profile?

kali@kali:~/Downloads/firefox_decrypt-main$ python3 firefox_decrypt.py /media/sf_kalisharedfolder/Firefox/Firefox/
Select the Mozilla profile you wish to decrypt
1 -> Profiles/83bm17pl.default
2 -> Profiles/sdpyltd.default-release

2
Website: https://www.reddit.com
Username: 'hackerman'
Password: 'sup3rs3cur3p4ssw0rd'

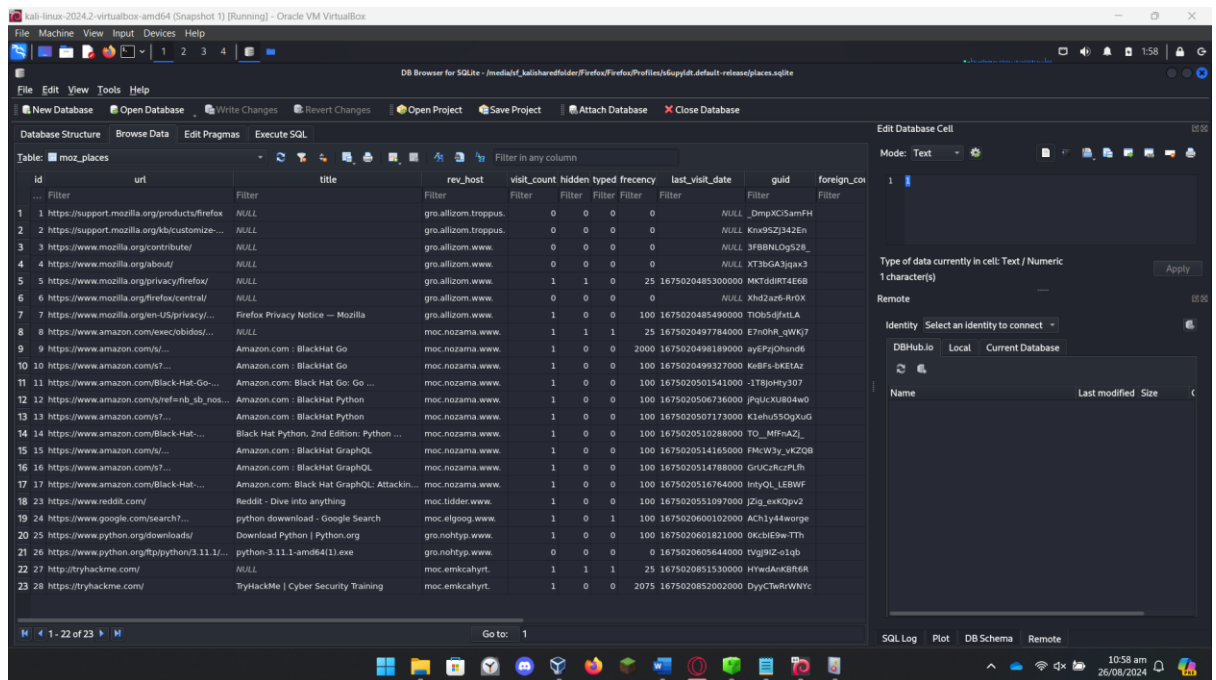
kali@kali:~/Downloads/firefox_decrypt-main$ cat /dev/null
cat: /dev/null: file is not a regular file
cat: failed to create device screen
```

Username: hackerman

Password: sup3rs3cur3p4ssw0rd

- What's the most frequently visited website?

I got this using sqlitebrowser tool on kali linux, amazon.com is the most frequently visited website. (I went to the “Browse Data” tab and opened the table “moz_places”



id	url	title	rev_host	visit_count	hidden	typed	frequency	last_visit_date	guid	foreign_key
1	https://support.mozilla.org/products/firefox		gro.allizom.troppus	0	0	0	0		NULL	DmpKC5amFH
2	https://support.mozilla.org/kb/customize...		gro.allizom.troppus	0	0	0	0		NULL	Knx95Zj342En
3	https://www.mozilla.org/contribute/		gro.allizom.www	0	0	0	0		NULL	3F8BNLog52B
4	https://www.mozilla.org/about/		gro.allizom.www	0	0	0	0		NULL	XT3bGA3jpx3
5	https://www.mozilla.org/privacy/firefox/		gro.allizom.www	1	1	0	25	1675020485300000	MKTdIdRT4E6B	
6	https://www.mozilla.org/en-US/privacy/...		gro.allizom.www	0	0	0	0		NULL	Xhd2az6-Rr0X
7	https://www.mozilla.org/en-US/privacy/...	Firefox Privacy Notice — Mozilla	gro.allizom.www	1	0	0	100	1675020485490000	TIOb5d9fAtLA	
8	https://www.amazon.com/elec/obids/...		moc.nozama.www	1	1	1	25	1675020497784000	E7n0Hr_gWjK7	
9	https://www.amazon.com/h/...	Amazon.com : BlackHat Go	moc.nozama.www	1	0	0	2000	1675020498189000	ayEPjOhund6	
10	https://www.amazon.com/s?...	Amazon.com : BlackHat Go	moc.nozama.www	1	0	0	100	1675020499327000	KaBfs-kKEIAz	
11	https://www.amazon.com/Black-Hat-Go-...	Amazon.com : Black Hat Go	moc.nozama.www	1	0	0	100	1675020501541000	lTqj0HyJ07	
12	https://www.amazon.com/href=nb_sb_res...	Amazon.com : BlackHat Python	moc.nozama.www	1	0	0	100	1675020506736000	pylXkXU8Q4w0	
13	https://www.amazon.com/s?...	Amazon.com : BlackHat Python	moc.nozama.www	1	0	0	100	1675020507173000	K1ehu5S0gruG	
14	https://www.amazon.com/Black-Hat-...	Black Hat Python, 2nd Edition: Python ...	moc.nozama.www	1	0	0	100	1675020510288000	TO_MfH-AZj	
15	https://www.amazon.com/s?...	Amazon.com : BlackHat GraphQL	moc.nozama.www	1	0	0	100	1675020514165000	FMcW3y_vKZQ8	
16	https://www.amazon.com/s?...	Amazon.com : BlackHat GraphQL	moc.nozama.www	1	0	0	100	1675020514788000	GrUCzRczPLfh	
17	https://www.amazon.com/Black-Hat-...	Amazon.com : Black Hat GraphQL: Attackin...	moc.nozama.www	1	0	0	100	1675020516764000	hnyQL_LEBWF	
18	https://www.reddit.com/	Reddit - Dive into anything	moc.tidder.www	1	0	0	100	1675020551097000	Jzig_exkQpv2	
19	https://www.google.com/search?...	python download - Google Search	moc.elgoog.www	1	0	1	100	1675020600102000	ACH1y44worge	
20	https://www.python.org/downloads/	Download Python Python.org	gro.nohtyp.www	1	0	0	100	1675020601821000	0KcbE9w-TTh	
21	https://www.python.org/ftp/python/3.11.1/...	python-3.11.1-amd64(1).exe	gro.nohtyp.www	0	0	0	0	1675020605644000	lvqj9lZ-1qib	
22	http://tryhackme.com/		moc.emkcahyt	1	1	1	25	1675020851530000	HywdAnk8R6R	
23	https://tryhackme.com/	TryHackMe Cyber Security Training	moc.emkcahyt	1	0	0	2075	1675020852002000	DyyCTwRvWNYc	

- What's the name of the file downloaded by the suspect?

Filename: **python-3.11.1-amd64(1).exe**

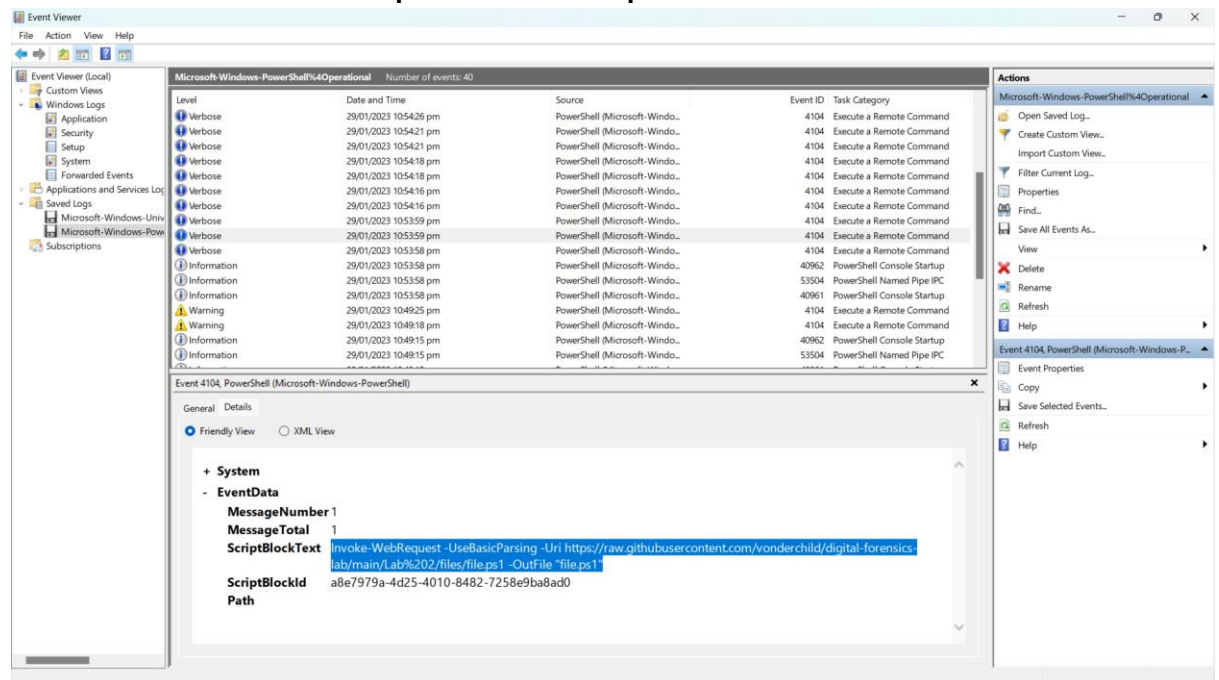
Given the PowerShell Event logs of a compromised system, answer the following [files/Microsoft-Windows-PowerShell%4Operational.evtx]:

- What's the command executed by the attacker to download a file on the system?

This is the command I found when I opened event viewer

Invoke-WebRequest -UseBasicParsing -Uri

https://raw.githubusercontent.com/vonderchild/digital-forensics-lab/main/Lab%202/files/file.ps1 -OutFile "file.ps1"

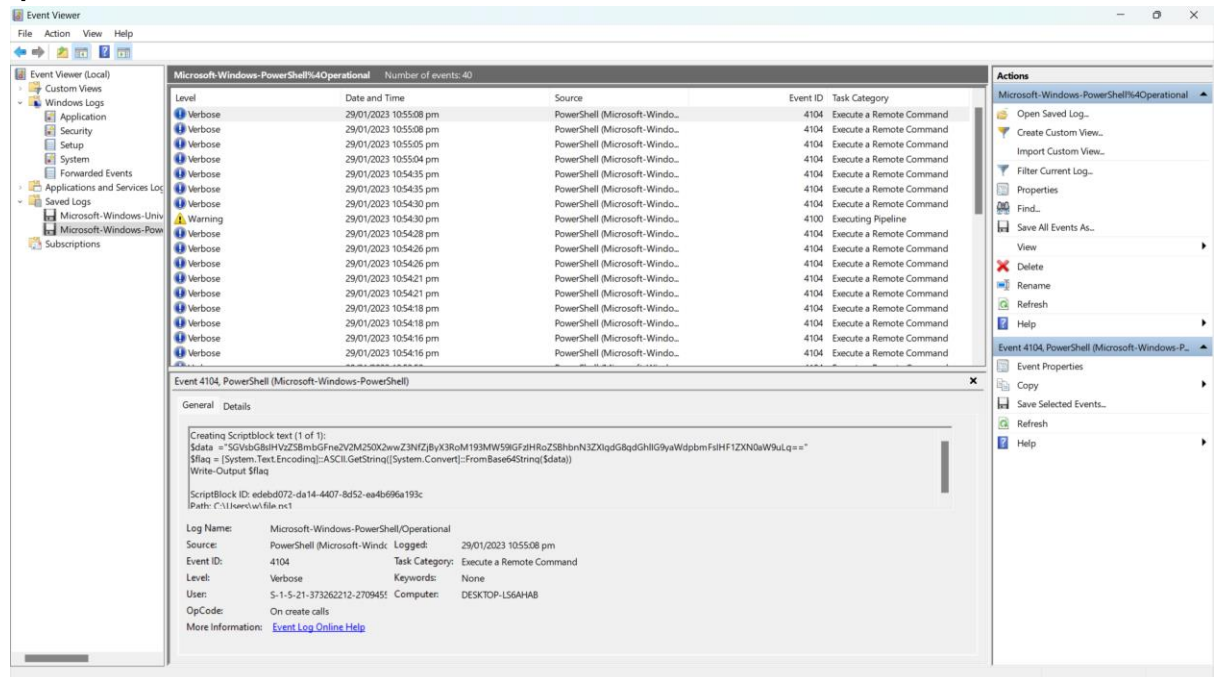


This is logged as an event with the ID 4104 which represents executed script blocks, that is where I found this.

- Can you analyze the downloaded file and understand what's the purpose of that file?

The file contains a flag, I found the hash and decrypted it on cyberchef and it contained the following: **"Hello, use flag{ev3nt_l0gs_f0r_th3_w1n} as the answer to the original**

question.”

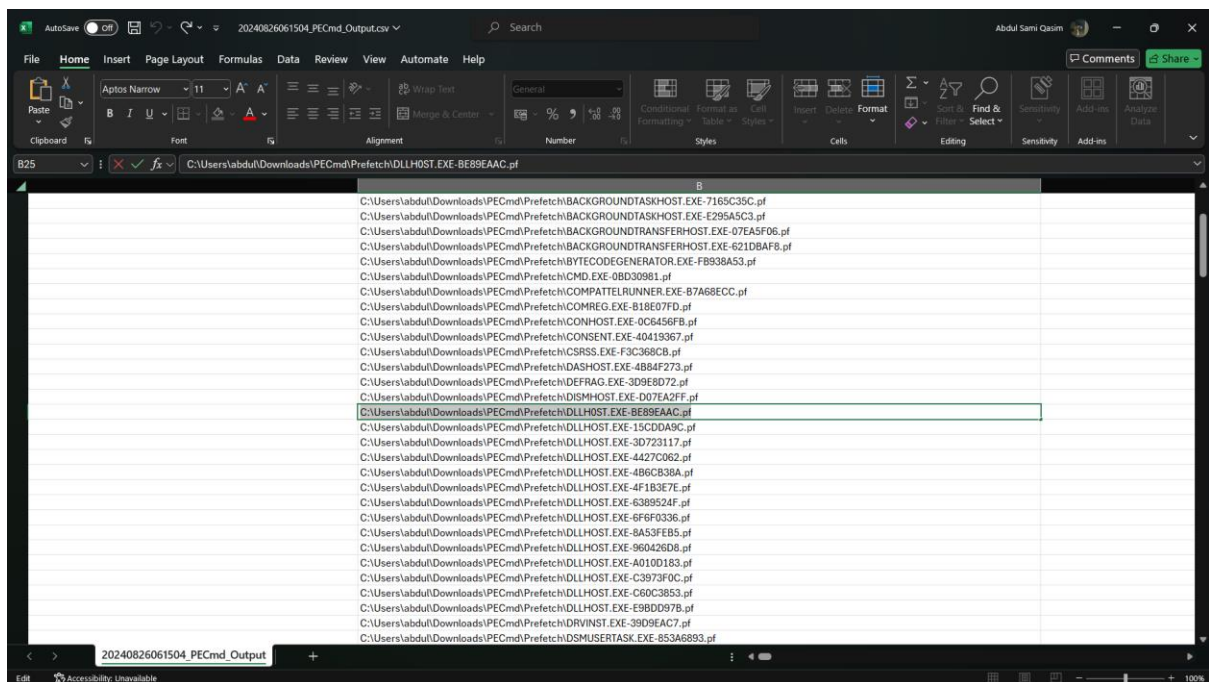


Given the Prefetch Files: Can you locate the path for the malicious program? [files/Prefetch.zip]

The file found is

“C:\Users\abdu\Downloads\PECmd\Prefetch\DLLHOST.EXE-BE89EAAC.pf”

(full path is because I put the prefetch file in PECmd directory) the difference is that it doesn’t have the alphabet O, rather... it’s just 0.



\\VOLUME{01d95894c528b62b-44c53985}\USERS\WORK\APPPDATA\LOCAL\TEMP\DLLHOST.EXE

AutoSave 100% 021725_Lab02.docx Search Abdul Sami Qasim

File Home Insert Draw Design Layout References Mailings Review View Help

Clipboard Font Paragraph Styles Editing Comments Share

Windows PowerShell

```
04: \VOLUME {01d95894c528b62b-44c53985}\USERS\WORK\APPDATA\LOCAL\MICROSOFT
05: \VOLUME {01d95894c528b62b-44c53985}\USERS\WORK\APPDATA\LOCAL\TEMP (Keyword True)
06: \VOLUME {01d95894c528b62b-44c53985}\WINDOWS
07: \VOLUME {01d95894c528b62b-44c53985}\WINDOWS\APPPATCH
08: \VOLUME {01d95894c528b62b-44c53985}\WINDOWS\SYSTEM32
09: \VOLUME {01d95894c528b62b-44c53985}\WINDOWS\SYSTEM32\WOW64
10: \VOLUME {01d95894c528b62b-44c53985}\WINDOWS\SYSTEM32\WOW64\WINDOWSPOWERSHELL

Files referenced: 15

00: \VOLUME {01d95894c528b62b-44c53985}\WINDOWS\SYSTEM32\NTDLL.DLL
01: \VOLUME {01d95894c528b62b-44c53985}\WINDOWS\SYSTEM32\WOW64.DLL
02: \VOLUME {01d95894c528b62b-44c53985}\WINDOWS\SYSTEM32\WOW64\WIN.DLL
03: \VOLUME {01d95894c528b62b-44c53985}\WINDOWS\SYSTEM32\KERNEL32.DLL
04: \VOLUME {01d95894c528b62b-44c53985}\WINDOWS\SYSTEM32\USER32.DLL
05: \VOLUME {01d95894c528b62b-44c53985}\WINDOWS\SYSTEM32\WOW64\CPU.DLL
06: \VOLUME {01d95894c528b62b-44c53985}\WINDOWS\SYSTEM32\LOCALIZATION\NLS.DLL
07: \VOLUME {01d95894c528b62b-44c53985}\WINDOWS\SYSTEM32\LOCALIZATION\NLS.DLL
08: \VOLUME {01d95894c528b62b-44c53985}\USERS\WORK\APPDATA\LOCAL\TEMP\DLLH0ST.EXE (Executable: True)
09: \VOLUME {01d95894c528b62b-44c53985}\$MFT
10: \VOLUME {01d95894c528b62b-44c53985}\WINDOWS\SYSTEM32\LOCALIZATION\NLS.DLL
11: \VOLUME {01d95894c528b62b-44c53985}\WINDOWS\SYSTEM32\LOCALIZATION\NLS.DLL
12: \VOLUME {01d95894c528b62b-44c53985}\WINDOWS\SYSTEM32\LOCALIZATION\NLS.DLL
13: \VOLUME {01d95894c528b62b-44c53985}\WINDOWS\SYSTEM32\LOCALIZATION\NLS.DLL
14: \VOLUME {01d95894c528b62b-44c53985}\WINDOWS\SYSTEM32\LOCALIZATION\NLS.DLL

----- Processed C:\Users\abdul\Downloads\PECmd\Prefetch\DLLH0ST.EXE-BE89EAAC.pf in 0.05248630 seconds -----

PS C:\Users\abdul\Downloads\PECmd>
```

Page 5 of 5 385 words English (Pakistan) Text Predictions: On Accessibility: Investigate