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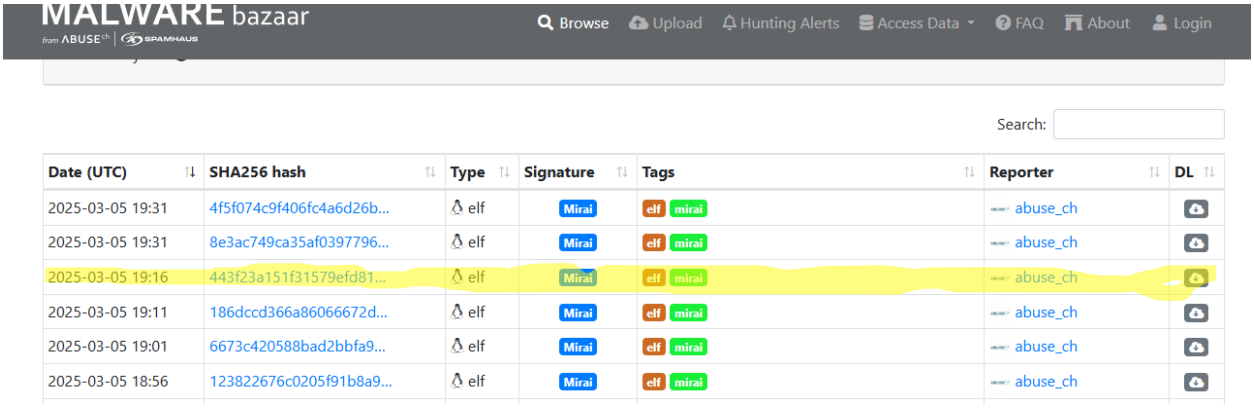
CYSE 450

Lab 3

3/5/25

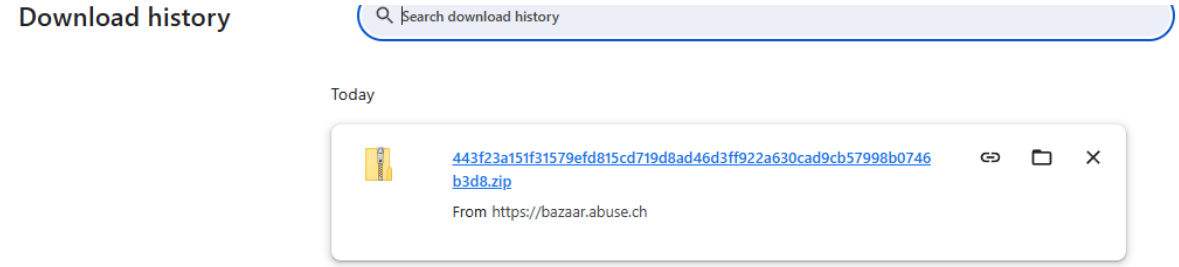
Task-1: Go to https://bazaar.abuse.ch/browse/ and select a malware with the “Mirai” signature.

I believe Mirai is a virus malware



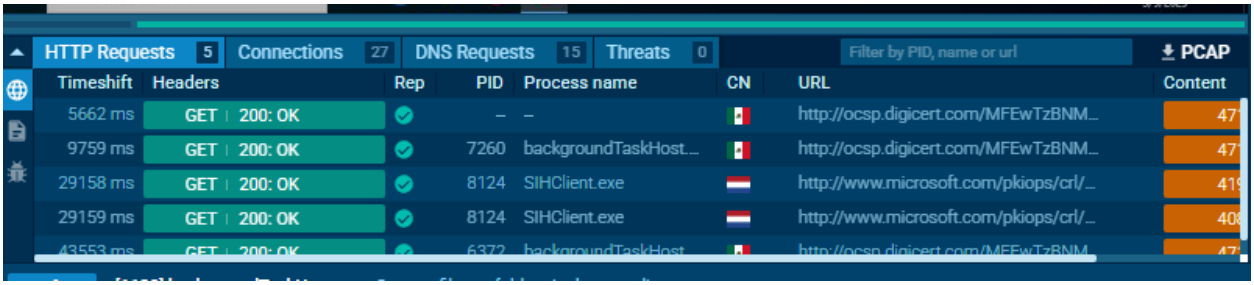
Task-2: Read the details of the selected malware and download the malware sample using the “download sample” link.

Task-

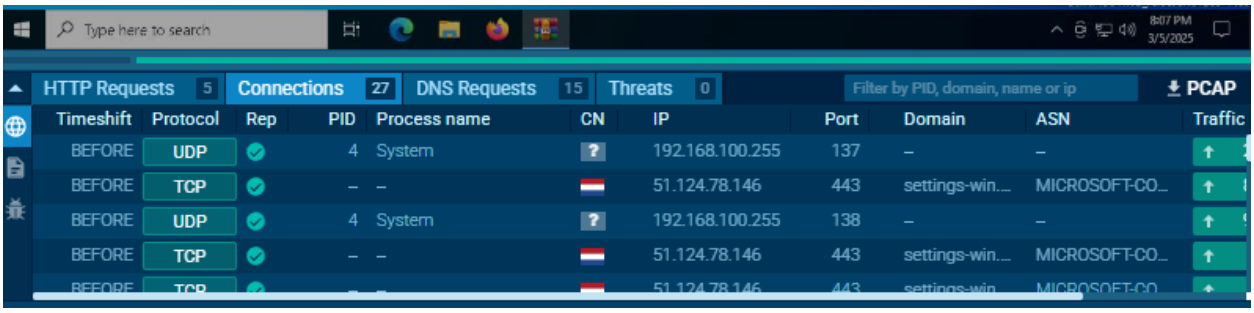


Task-6: Take screenshots of the any.run screen, include the HTTP Requests, Connections, DNS Requests, and Threats under the Network tab.

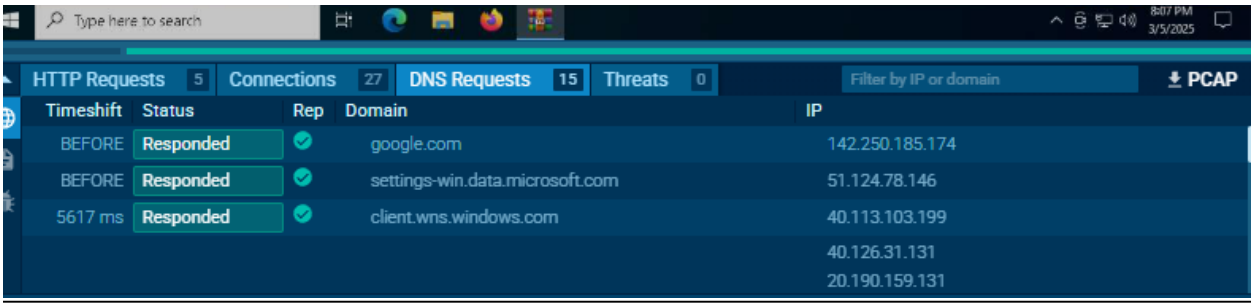
HTTP Requests:



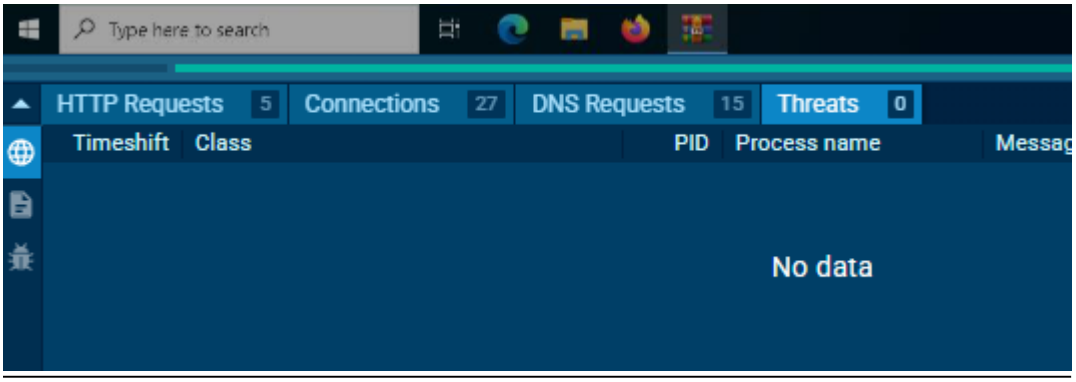
Connections:



DNS Requests:



Threats:



Task-7: Screenshot any interesting finds

Connections

PID	Process	IP	Domain	ASN	CN	Reputation
4	System	192.168.100.255:137	–	–	–	whitelisted
–	–	51.124.78.146:443	settings-win.data.microsoft.com	MICROSOFT-CORP-MSN-AS-BLOCK	NL	whitelisted
4	System	192.168.100.255:138	–	–	–	whitelisted
–	–	40.113.103.199:443	client.wns.windows.com	MICROSOFT-CORP-MSN-AS-BLOCK	NL	whitelisted
–	–	40.126.31.131:443	login.live.com	MICROSOFT-CORP-MSN-AS-BLOCK	IE	whitelisted
–	–	23.40.158.218:80	ocsp.digicert.com	AKAMAI-AS	MX	whitelisted
6544	svchost.exe	40.126.31.131:443	login.live.com	MICROSOFT-CORP-MSN-AS-BLOCK	IE	whitelisted

Launch configuration

Task duration:	60 seconds	**Heavy Evasion option:**	off	**Network geolocation:**	off
Additional time used:	none	**MITM proxy:**	off	**Privacy:**	Public submission
Fakenet option:	off	**Route via Tor:**	off	**Autoconfirmation of UAC:**	on
Network:	on				

Software preset

- Internet Explorer 11.3636.19041.0
- Adobe Acrobat (64-bit) (23.001.20093)
- Adobe Flash Player 32 NPAPI (32.0.0.465)
- Adobe Flash Player 32 PPAPI (32.0.0.465)
- CCleaner (6.20)
- FileZilla 3.65.0 (3.65.0)
- Google Chrome (122.0.6261.70)
- Google Update Helper (1.3.36.51)
- Java 8 Update 271 (64-bit) (8.0.2710.9)
- Java Auto Updater (2.8.271.9)
- Microsoft Edge (122.0.2365.59)
- Microsoft Edge Update (1.3.185.17)
- Microsoft Office Professional 2019 - de-de (16.0.16026.20146)
- Microsoft Office Professional 2019 - en-us (16.0.16026.20146)
- Microsoft Office Professional 2019 - es-es (16.0.16026.20146)

Hotfixes

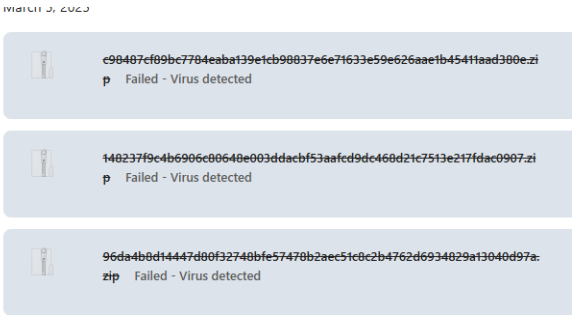
- Client LanguagePack Package
- DotNetRollup
- DotNetRollup 481
- FodMetadata Package
- Foundation Package
- Hello Face Package
- InternetExplorer Optional Package
- KB5003791
- KB5011048
- KB5015684
- KB5033052
- LanguageFeatures Basic en us Package
- LanguageFeatures Handwriting en us Package
- LanguageFeatures OCR en us Package
- LanguageFeatures Speech en us Package

Task-8: Based on the information you found from Task-6 and Task-7, briefly explain the main characteristics of the malware sample.

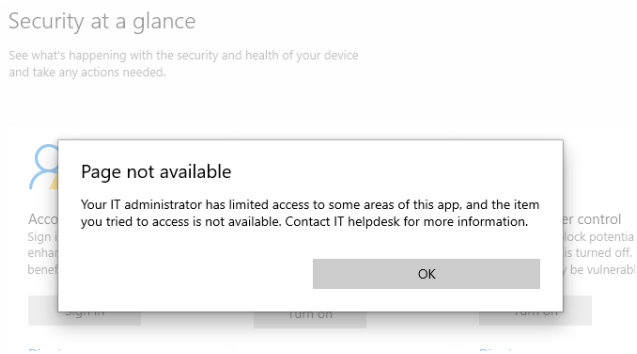
Since the Mirai malware is a virus, it makes sense why many of the connections were Microsoft connections, when it came to the settings and other files. I believe this virus uses system resources, to steal data and corrupt files. It spreads through document macros like Microsoft Office, Adobe, and Java when looking at the connections and software features.

Task-9: In the bottom part of the any.run screen, you will find information about HTTP Requests, Connections, DNS Requests, and Threats under the Network tab. Screenshot the findings for each category with the VIPKeylogger Malware.

My computer wouldn’t let me download the malicious file



I also tried to stop my antivirus software but it wouldn’t work either.



HTTP Requests:

Connections:

DNS Requests:

Threats:

Task-10: Discuss the difference between Mirai and VIPKeylogger malware in your own words.

Since I was unable to view the Keylogger malware, I will compare Mirai to a keylogger(Spyware) malware. It seems a keylogger would record keystrokes to get sensitive information. While Marai virus uses files and the system resources to steal data, and corrupt files. I also believe that the Marai malware is safer than the VIPKeylogger malware simply due to the fact my computer wouldn’t even let me download the malware sample.