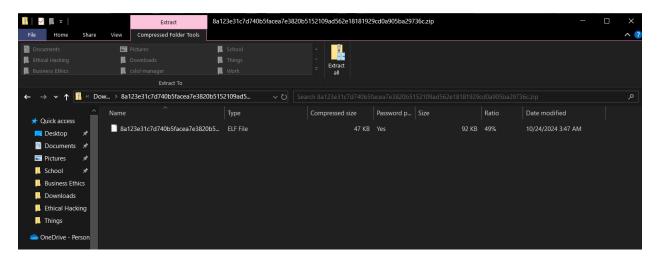
## Lab 2: Malware Analysis

## **TASKS**

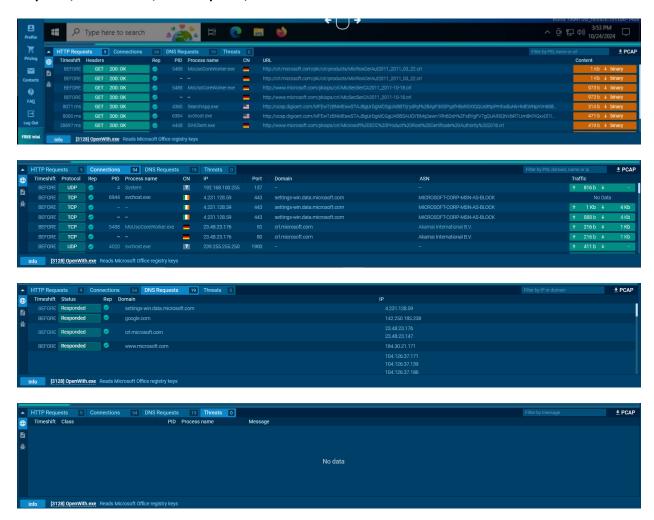
Task 1: Go to https://bazaar.abuse.ch/browse/ and select a malware with the "Mirai" signature. Use the "Signature" column to find out all the malwares with the "Mirai" signature or use the search option with the "Mirai" keyword.

Malware Samples  The table below shows all malware samples that have been identified by MalwareBazaar as Miral (max 1000).							
Firstseen (UTC)	†↓	SHA256 hash	ŢĻ	Tags	Ţ↓	Reporter	Ţ↓
2024-10-24 00:06:10				elf mirai 🗹		abuse_ch	
2024-10-24 00:01:17		<b>□</b> 7e416f12cdba2efa72237f		elf mirai 🖒		abuse_ch	
2024-10-23 23:41:13		₵ d4c5fb5a13c3075ed3754		eff mirai 🗹		abuse_ch	
2024-10-23 23:36:14		₫ 71864c0f35bd1f85f0b8fe		elf mirai ☑		abuse_ch	
2024-10-23 23:16:10		₾ 2597a3db3169a3fb5fd4d		elf mirai 🖒		abuse_ch	
2024-10-23 23:16:09		₫ d5eddc6bd0d948dd3395		elf mirai 🗹		abuse_ch	
2024-10-23 23:06:08		<b>□</b> 950bd1cad6c4482d1887		eff mirai 🖒		abuse_ch	
2024-10-23 21:16:10		₵ 76df2da8b172b4ae8668		elf mirai 🗗		abuse_ch	
2024-10-23 19:31:11		♣ 8ddd8b35e5ee1494dd6a		eff mirai 🗹		abuse_ch	
2024-10-23 19:01:14		<b>□</b> 945fcc1bb0b11bfe24536		elf mirai 🗹		abuse_ch	
2024-10-23 18:41:14		<b>□</b> a7b23985271a5367a2ac		elf mirai 🖸		abuse_ch	
2024-10-23 18:16:14		□ 1ded319558c22390e5df3     □ 1ded31950e5df3     □		eff mirai 🗹		abuse_ch	
2024-10-23 18:11:07		₵ 04e95cea42bebe788483		eff mirai 🗹		abuse_ch	
2024-10-23 17:51:06				eff mirai 🖒		abuse_ch	
2024-10-23 17:51:05		<b>□</b> f57742429adca02b45d12		elf mirai ☑		abuse_ch	

Task 2: Read the details of the selected malware and download the malware sample using the "download sample" link. Take a screenshot showing the downloaded malware sample in your computer.

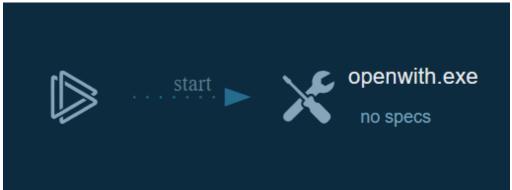


Task-6: In the bottom part of the any.run screen, you will find information about HTTP Requests, Connections, DNS Requests, and Threats under the Network tab.



Task-7: Explore information found in the IOC, Text Report, Graph, and ATT&CK tabs on the right side of the screen. Take necessary screenshots showing any interesting finding.



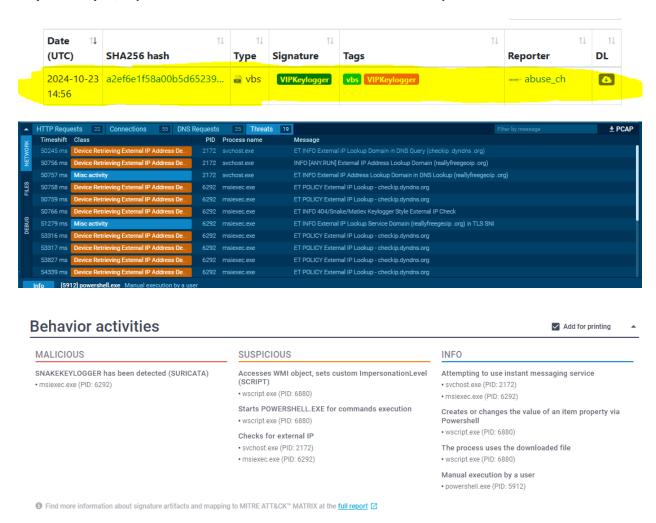




## Task-8: Based on the information you found from Task-6 and Task-7, briefly explain the main characteristics of the malware sample.

This malware executed the Microsoft openwith.exe process in order to read Microsoft Office registry keys. No further actions were found.

Task-9: Go to https://bazaar.abuse.ch/browse/ again, but this time, select a malware sample with the "VIPKeylogger" signature. Perform malware analysis repeating Task-3 to Task-7. Based on your analysis, explain the main characteristics of this malware sample.



This malware sample is a key logger, which records every key pressed on the device. SNAKEKEYLOGGER was detected by Suricata when it was delivered via "msiexec.exe". wscript.exe used Powershell to run commands. In order to communicate with external servers, both msiexec.exe and svchost.exe attempted to use an instant messaging service.

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

While mirai and VIPKeylogger are both types of malwares, they differ in their objectives. VIPKeyloggers are designed to record the keys pressed on the device in order to steal credentials or other personal data. VIPKeyloggers may also take screenshots of on-screen information. Mirai is designed to turn the infected device into part of a botnet, which then can be used to carry out tasks like DDoS attacks.