Conducting Forensic Investigations on System Memory (4e)

Digital Forensics, Investigation, and Response, Fourth Edition - Lab 10

Student: Email:

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Time on Task: Progress:

8 hours, 13 minutes 100%

Report Generated: Wednesday, May 15, 2024 at 10:49 AM

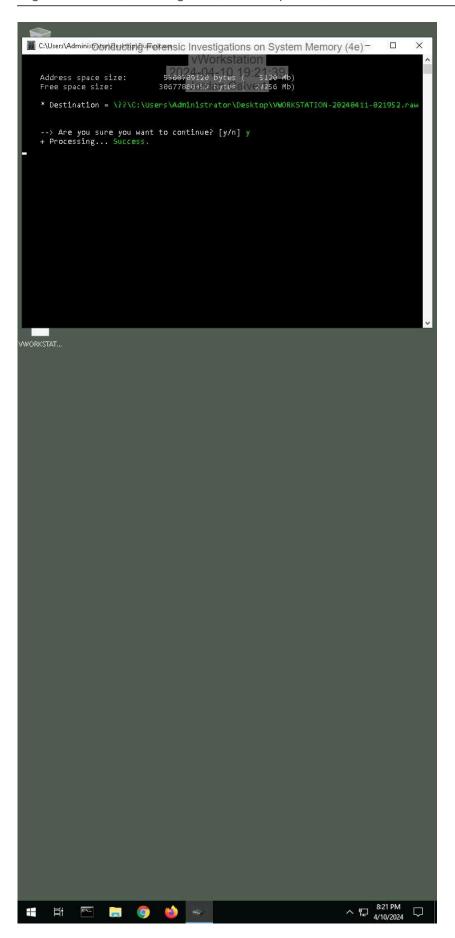
Section 1: Hands-On Demonstration

Part 1: Capture Memory using Dumplt

3. Make a screen capture showing the Dumplt success notification.

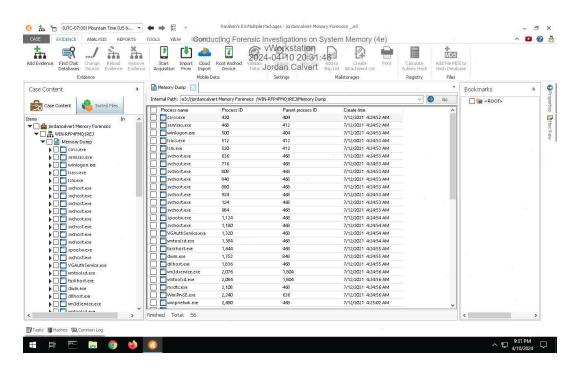
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Part 2: Analyze Memory using E3

8. Make a screen capture showing the list of processes in the memory dump.



10. **Record** the start times for the oldest process and the newest process.

oldest is process 4 newest is process 6,000

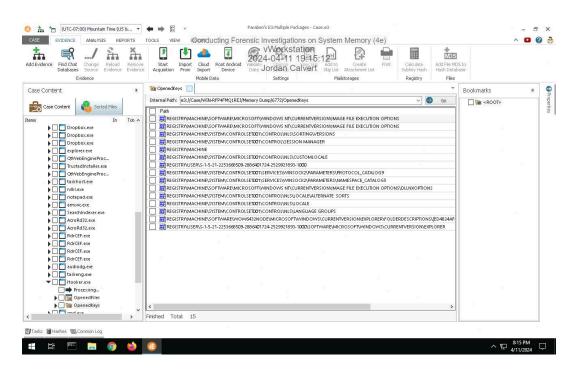
15. **Document** your findings for the conhost.exe process. What is it and what is it used for?

conhost.exe is the command line host process in Windows, responsible for creating console windows to run command line applications.

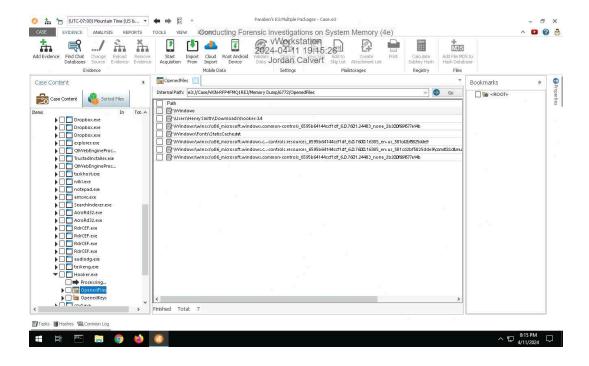
17. **Document** your findings for the hooker.exe process. What is it and what is it used for?

Hooker is a password and data stealing trojan. Being run it installs itself as KERN32.EXE into \Windows\System\directory and modifies RunOnce key in the Registry to be run during next Windows session.

21. Make a screen capture showing the registry keys opened by the Hooker.exe process.



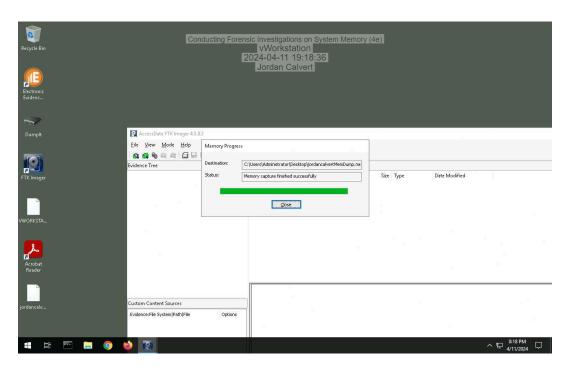
23. Make a screen capture showing the files opened by the hooker.exe process.



Section 2: Applied Learning

Part 1: Capture Memory using FTK Imager

6. Make a screen capture showing the Memory capture finished successfully confirmation.



Part 2: Analyze Memory using Volatility

7. **Document** your findings for the rvlkl.exe process. What is it and what is it used for?

rvlkl.exe is an executable exe file that belongs to the Revealer Keylogger process which comes along with the Revealer Keylogger Software developed by Logixoft software developer. Revealer Keylogger is a program that allows you to monitor the keystrokes types on your computer. such as passwords, chat messages, emails, and web searches.

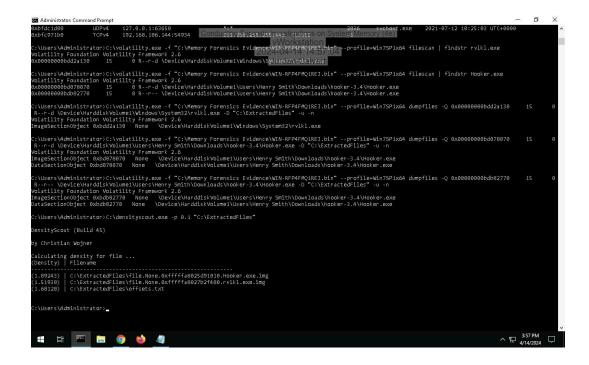
9. **Document** whether any processes are flagged as hidden.

There are no processes that are flagged as hidden.

12. **Document** whether the netscan module displays network usage associated with the Hooker.exe or rvlkl.exe processes.

There are no indications of network usage associated with the Hooker.exe or rvlkl.exe processes.

- 15. **Document** any information you were able to gather about port 56610.
- -falls within the 49152-65535 port range-often used for specific, custom configurations-requires network monitoring to determine usage-unassigned status warrants cautious monitoring for unusual activities
 - 26. Make a screen capture showing the DensityScout results.



Section 3: Challenge and Analysis

Part 1: Identify Malicious Connections

Document the three processes that connected to 205.134.253.10:4444.

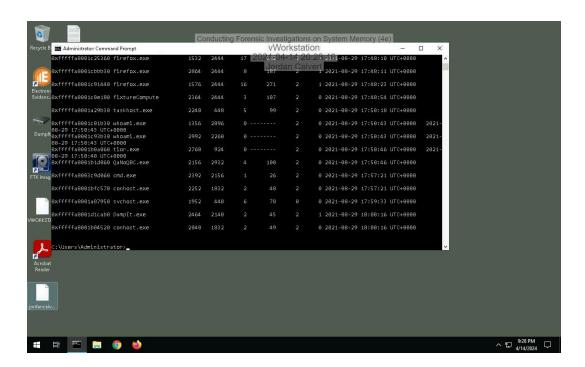
2364, 2156, 2064

Document the name and purpose of the software you discovered.

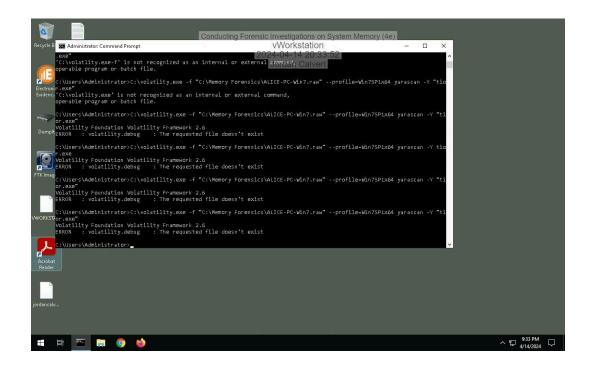
Metasploit is a comprehensive open-source platform for developing, testing, and executing exploits in cybersecurity assessments.

Part 2: Identify Malicious Processes

Make a screen capture showing the fixtureComputer.exe process, and all those below it, in the pslist output.



Make a screen capture showing the output of the yarascan.



Part 3: Identify Privilege Escalation

Make a screen capture showing the output of your privilege comparison.

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