

Lab Assignment



Cybersecurity Professional Program

Digital Forensics &
Incident Response

Data Acquisition

DFIR-04-L4

Built-in Memory Capture

Lab Objective

Become familiar with the built-in memory dumping in Windows 10.

Lab Mission

Configure Windows 10 to create a memory dump during a system crash.

Lab Duration

15–20 minutes

Requirements

- Basic knowledge of the Linux environment
- Knowledge of data acquisition

Resources

- Environment & Tools
 - VirtualBox
 - Windows 10
 - Extra Files
 - *notmyfault64.exe*

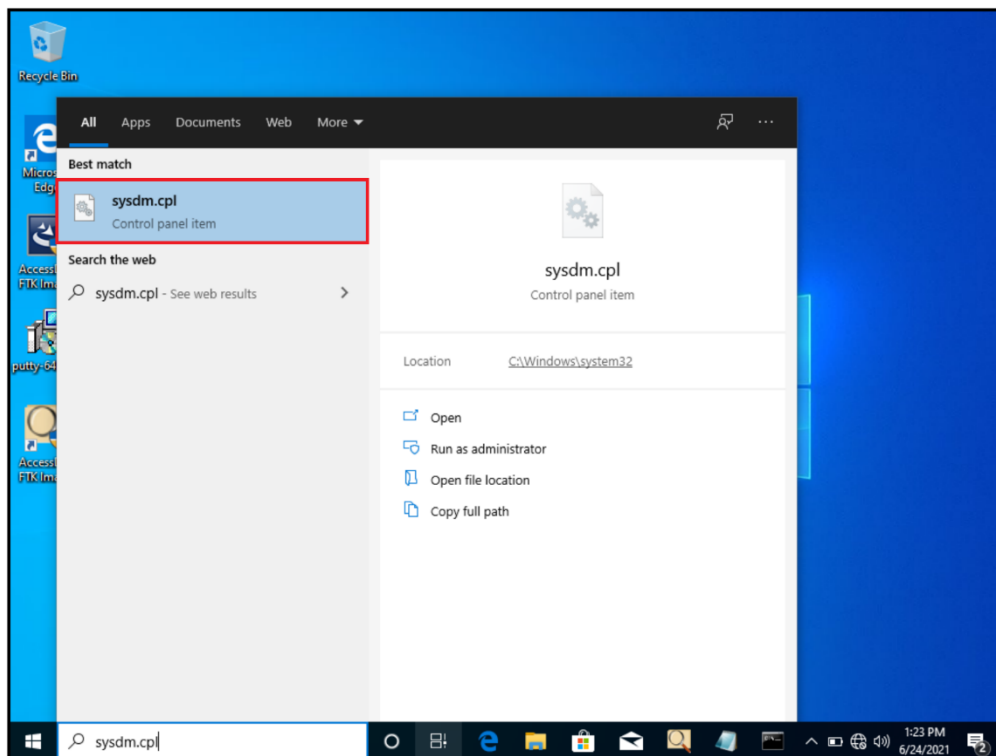
Textbook References

- Chapter 4: Data Acquisition
 - Section 6: Memory Dumping

Lab Task: Create a Memory Dump

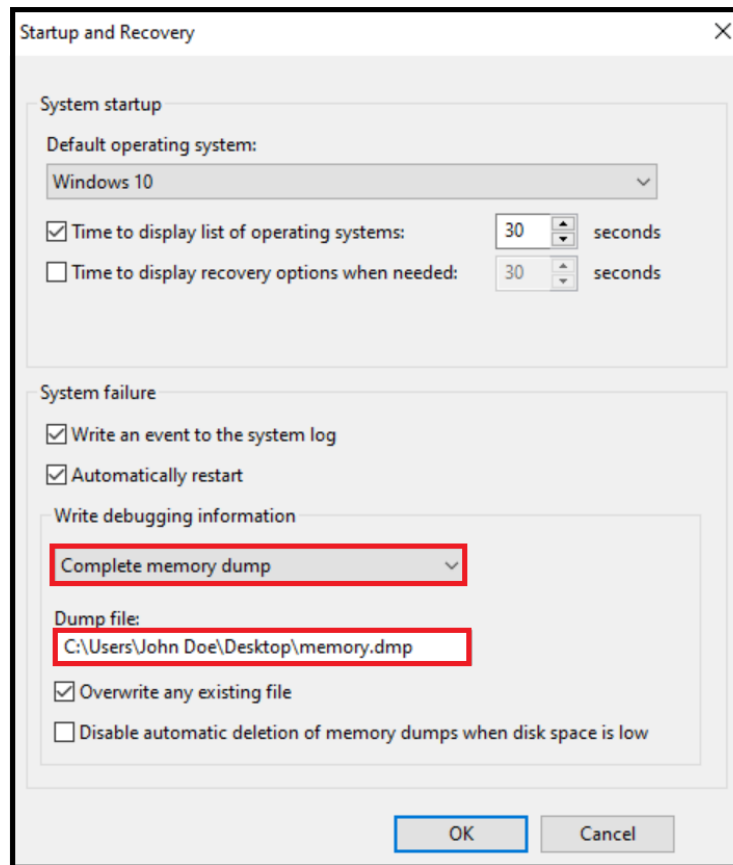
In this task, you will enter the Windows 10 settings and configure the system to generate a memory dump file in the event of a crash.

- 1 Enter the virtual machine's system properties by opening the search for **sysdm.cpl**.



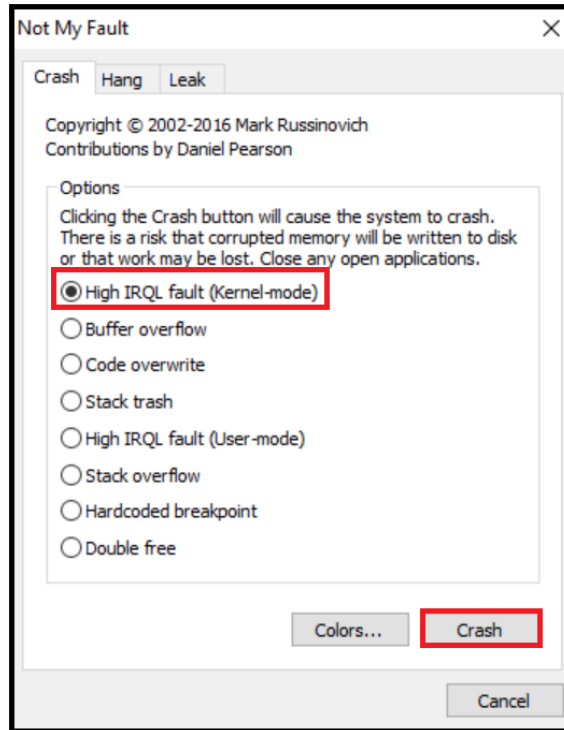
- 2 In the **Advanced** tab, use the **Startup and Recovery** settings to configure memory dump creation upon a system crash.

- 3 In the **Startup and Recovery** window, select **Complete memory dump** and change the file path to: **C:\Users\[username]\Desktop\memory.dmp**. Then click **OK** to prompt a restart.



- 4 Drag and drop the **notmyfault64.exe** file to the Windows machine's desktop and run the .exe file.

- 5 Once **Not My Fault** is open, select **High IRQL fault (Kernel-mode)** and click **Crash**. The system will crash and restart.



- 6 Log back in and you should have the **memory.dmp** file on your desktop.

