Kingdom of Saudi Arabia Ministry of Education University of Jeddah College of Science and Computer Engineering



المملكة العربية السعودية وزارة التعليم جامعة جدّة كلية علوم و هندسة الحاسب

CCCY432 – Reverse Engineering and Malware Analysis

Lab 6 – Unpacking Process Injection Code Using Debugger – part 2

Due Date: 3 nov 2024 11:00PM

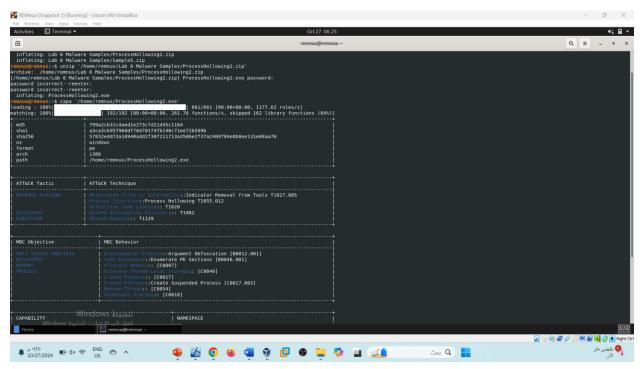
Lara Sami Alofi

2110886

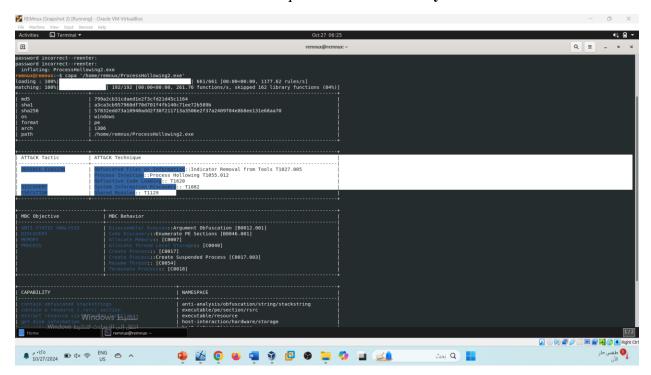
<u>Y</u>

Task 4: Recognizing Process Hollowing technique in an executable:

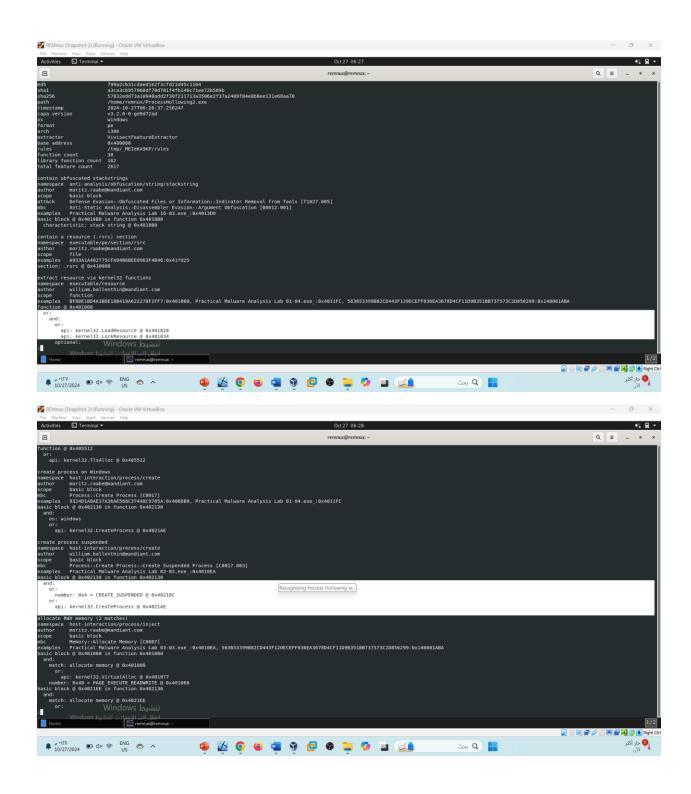
1. In this task, we are going to investigate and recognize process hollowing pattern in the malware sample using Process_Hollwoing2.exe.



- 2. Follow the steps from Remnux capa tool and take screenshots of the following:
- a. Take screenshot the ATT&CK Techniques of the malware in your Windows Machine



b. Take screenshot of the API details of the suspended process in your Windows Machine



- c. From the output of capa, what is the address of kernel32.CreateProcess?
 - 1- Run the command: capa -vv /home/remnux/ProcessHollowing2.exe | less
 - 2- Scroll down to the end of the output.



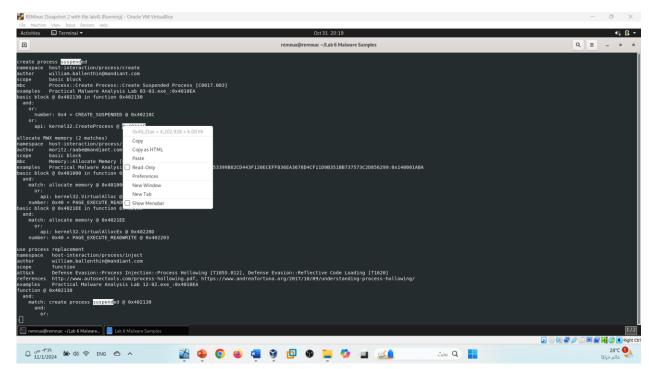
3- Type /suspend and press Enter.



4- Press Enter



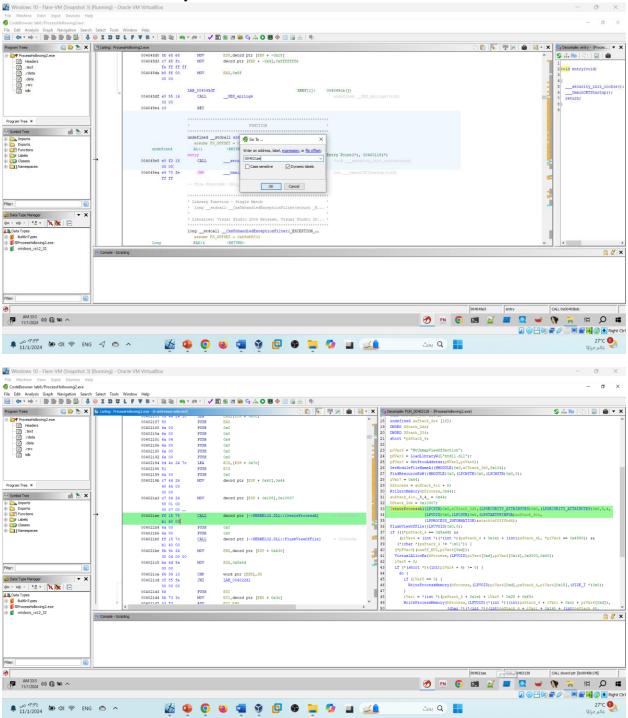
5- Scroll up to locate and copy the address of CreateProcessA.

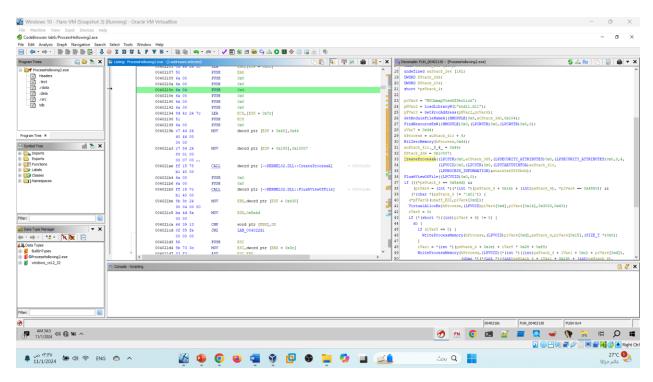


The CreateProcessA function from kernel32.dll is located at 0x4021ae in this disassembly.

- d. To write the instruction at 0x40218c in Flare-VM:
- 1- Import the file into Ghidra and start the analysis.

2- Press Ctrl + G to search by address.





The instruction at address 0x40218c is PUSH 0x4.