SECURE CODING LAB-10 19-04-2021

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Lab experiment - Working with the memory vulnerabilities – Part IV

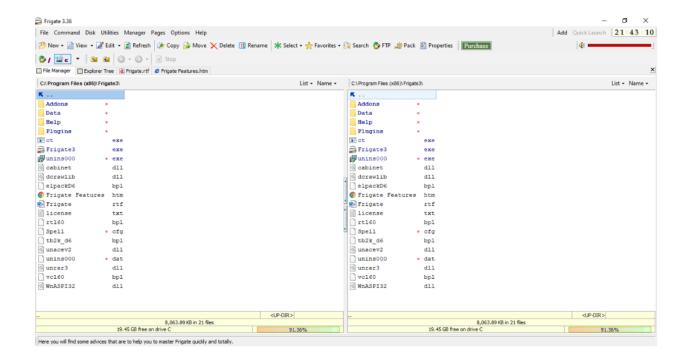
QUESTION

Task

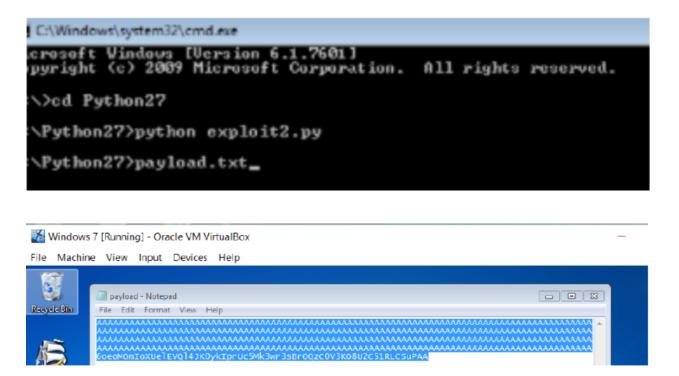
- Download Frigate3_Pro_v36 from teams (check folder named 19.04.2021).
- Deploy a virtual windows 7 instance and copy the Frigate3_Pro_v36 into it.
- Install Immunity debugger or ollydbg in windows7
- Install Frigate3_Pro_v36 and Run the same
- Download and install python 2.7.* or 3.5.*
- Run the exploit script II (exploit2.py- check today's folder) to generate the payload

OUTPUT

• Download Frigate3_Pro_v36



 Now execute exploit2.py in cmd which generates a payload and now open the payload



After running the payload the app stops working which is buffer overflow

• Now,open calculator by generating the cal payload:

msfvenom -a x86 --platform windows -p windows/exec CMD=calc -e x86/alpha_mixed -b "\x00\x14\x09\x0a\x0d" -f python

```
C:\Windows\system32\cmd.exe

Microsoft Vindows [Version 6.1.7601]

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C:\>cd Pythan27

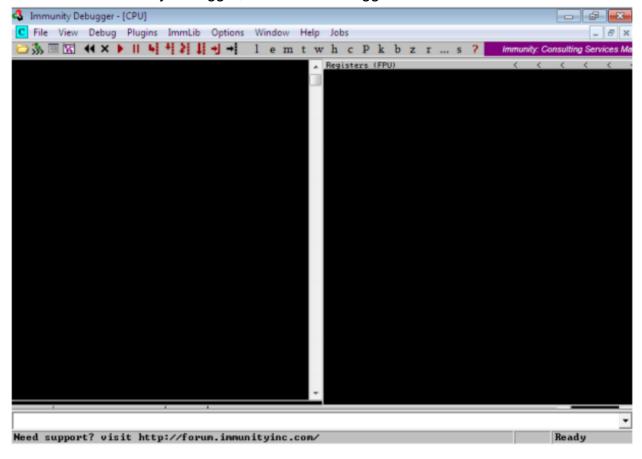
C:\Pythan27>python exploit2.py

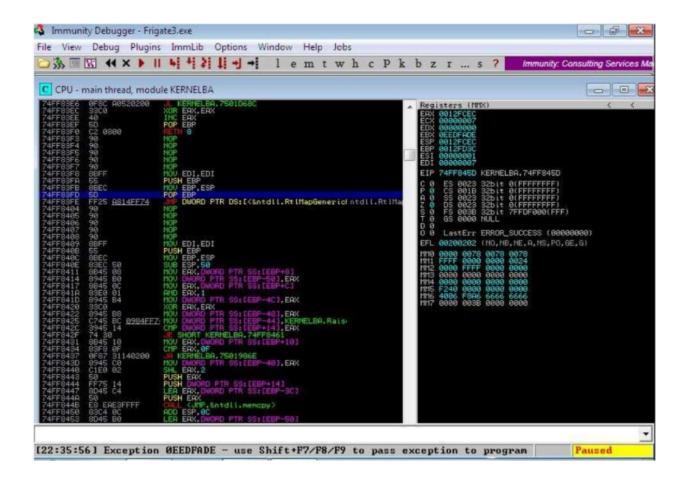
C:\Pythan27>payload_calc.txt
```

Windows 7 [Running] - Oracle VM VirtualBox

File Machine View Input Devices Help Recycle Bin Calculator View Edit Help Vullin 0 MC MR MS M+ M-CE C 7 8 9 % 5 6 1/x4 2 3

• Install immunity debugger, then attach debugger





Check for EPI address



Check address for stack address

• SEH chain:verifying SHE and reporting the DLL loaded along with the address

