Secure Coding Lab - 10

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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**

Analysis

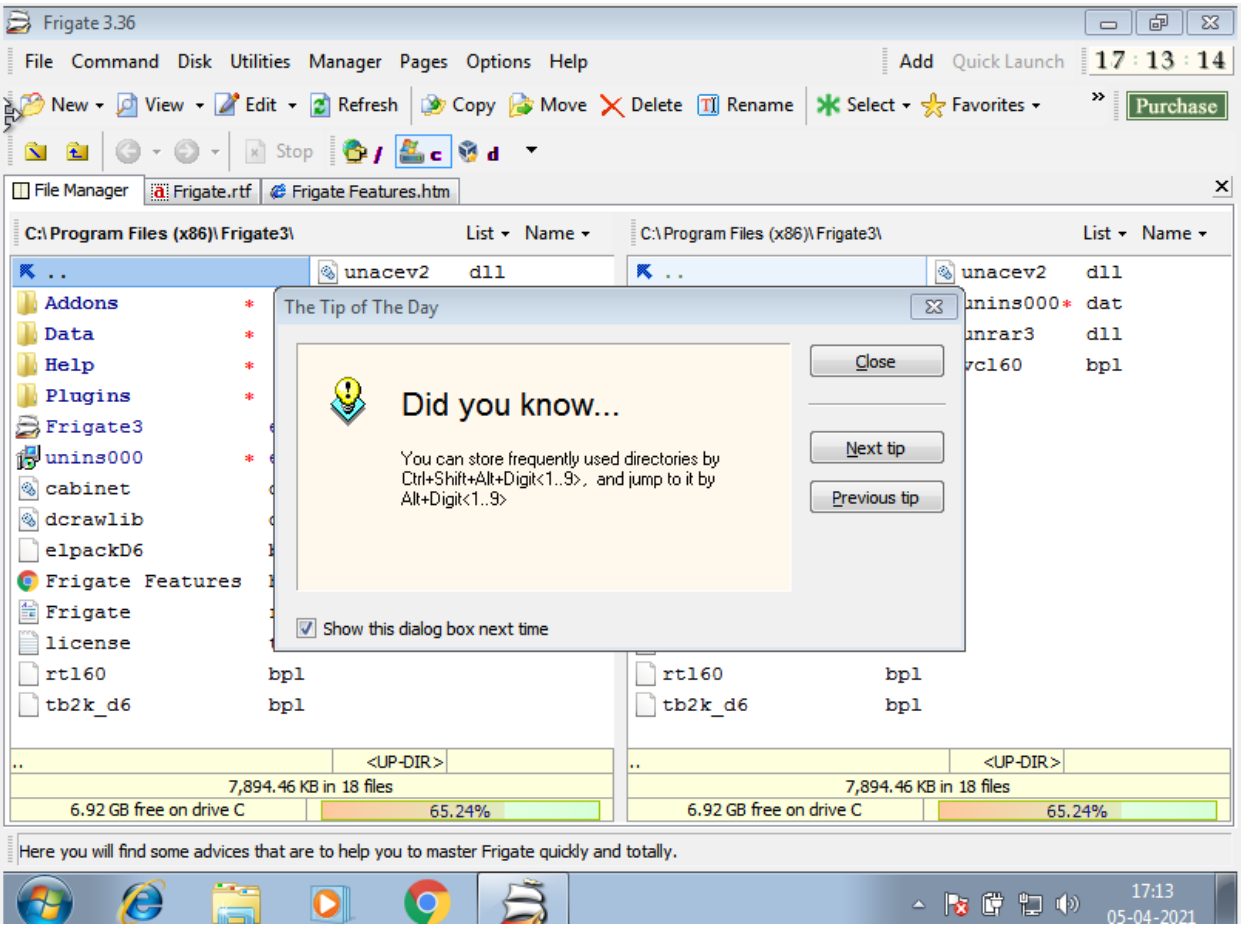
- **Try to crash the Frigate3_Pro_v36 and exploit it.**
- **Change the default trigger from cmd.exe to calc.exe (Use msfvenom in Kali linux).**

Example:

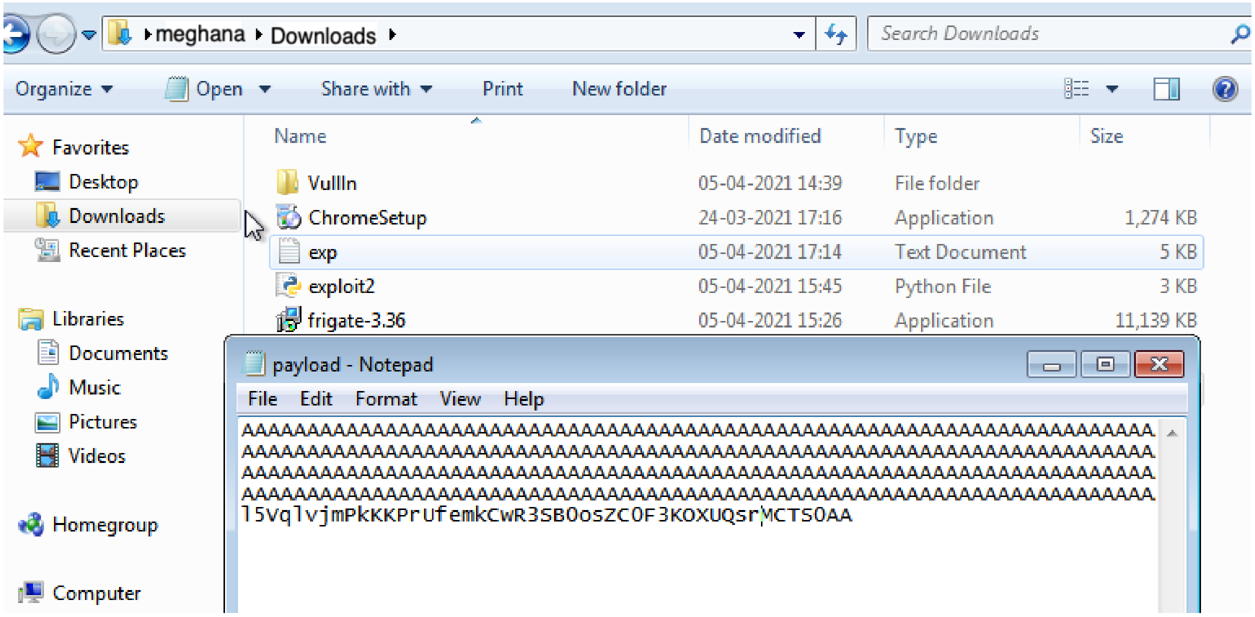
msfvenom -a x86 --platform windows -p windows/exec CMD=calc -e x86/alpha_mixed -b "\x00\x14\x09\x0a\x0d" -f python

- **Attach the debugger (immunity debugger or ollydbg) and analyse the address of various registers listed below**
- **Check for EIP address**
- **Verify the starting and ending addresses of stack frame**
- **Verify the SEH chain and report the dll loaded along with the addresses. For viewing SEH chain, goto view à SEH**

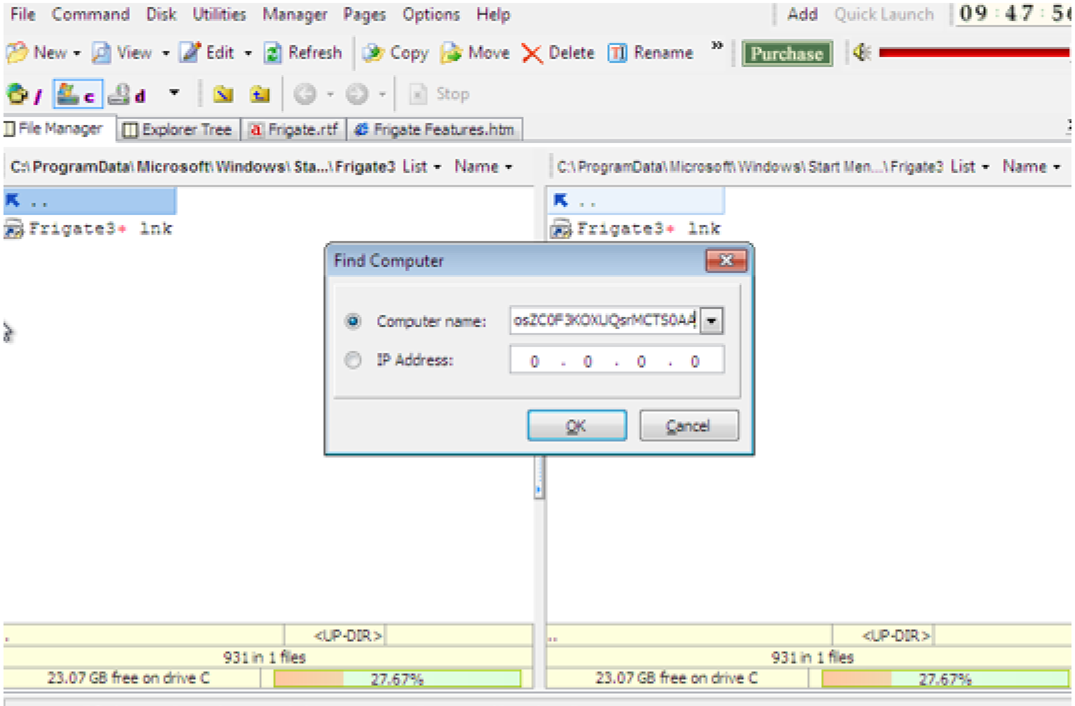
1) Install Frigate on your Windows 7 VM



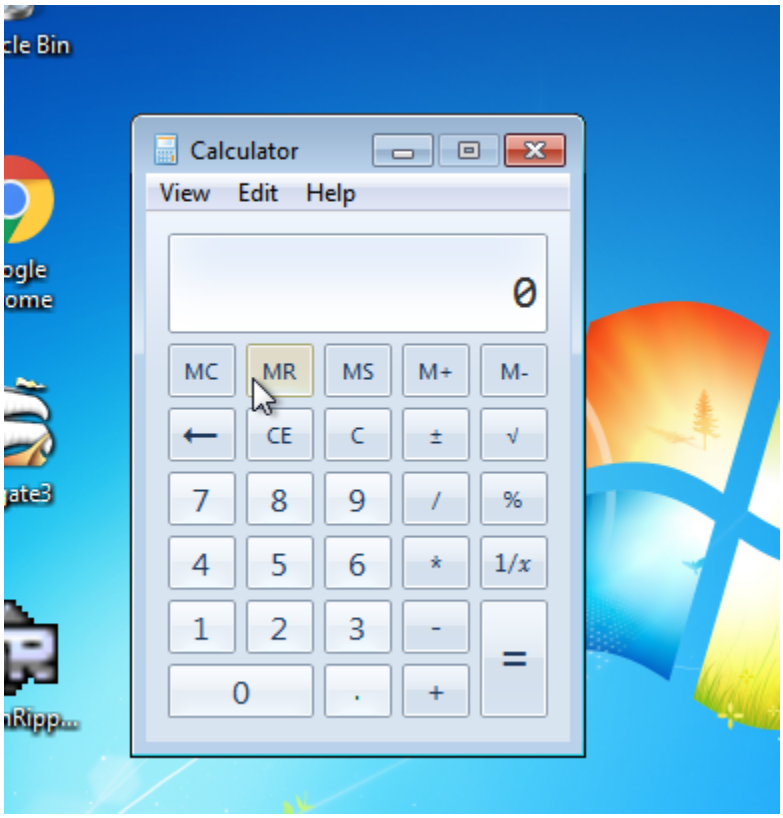
2) Execute explot2 for generating a text payload



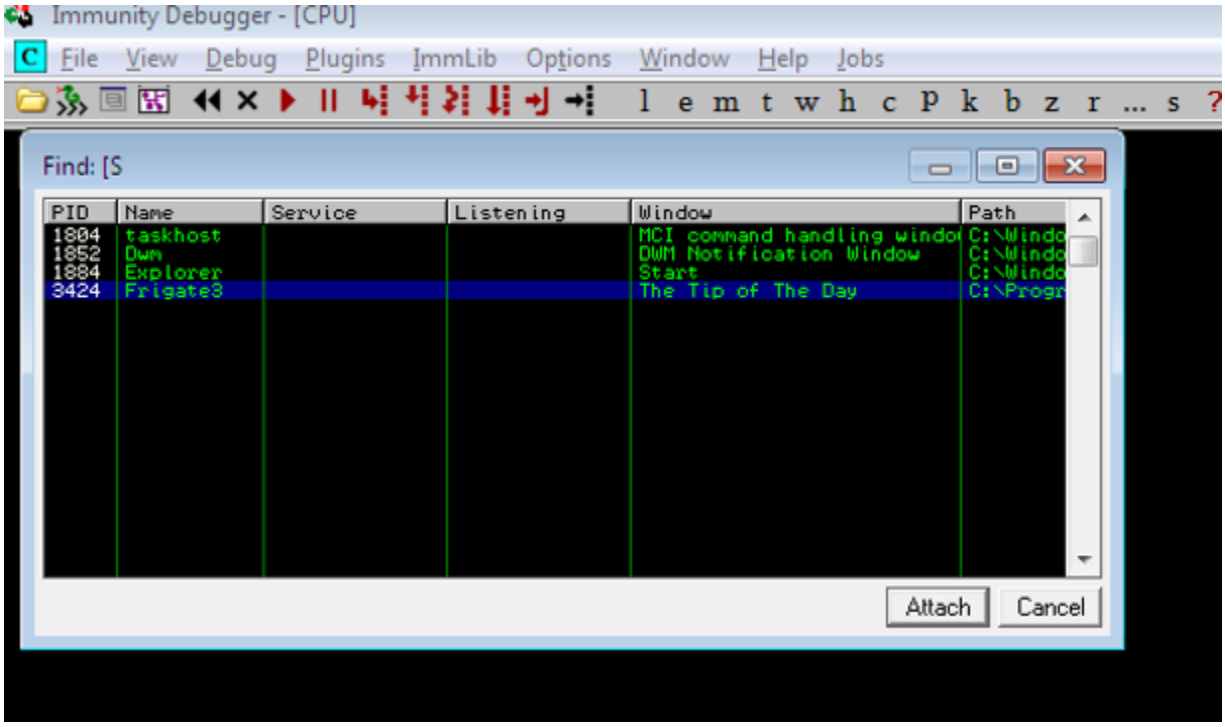
3) Paste the payload in the frigate software



4) App crashes and the calc.exe is triggered



5) Analyse the debugging and registers using immunity debugger



6) Find eip address and overflowing A's

And note the ESP (stack pointer) and EBP (base pointer) registers