

Secure Coding (CSE 2010)

LAB Experiment: 8

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TASK

Lab experiment - Working with the memory vulnerabilities – |
Part II

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- check today's folder) to generate the payload.
 - Replace the shellcode in the exploit2.py
- Install Vuln_Program_Stream.exe and Run the same

Analysis

- Try to crash the Vuln_Program_Stream program and exploit it.
- Change the default trigger from cmd.exe to calc.exe (Use msfvenom in Kali linux).
Example:
msfvenom -a x86 --platform windows -p windows/exec
CMD=calc -e x86/alpha_mixed -b
"\x00\x14\x09\x0a\x0d" -f python
- Change the default trigger to open control panel.

- Run the exploit script II (exploit2.py- check today's folder) to generate the payload.

- Install Vuln_Program_Stream.exe and Run the same

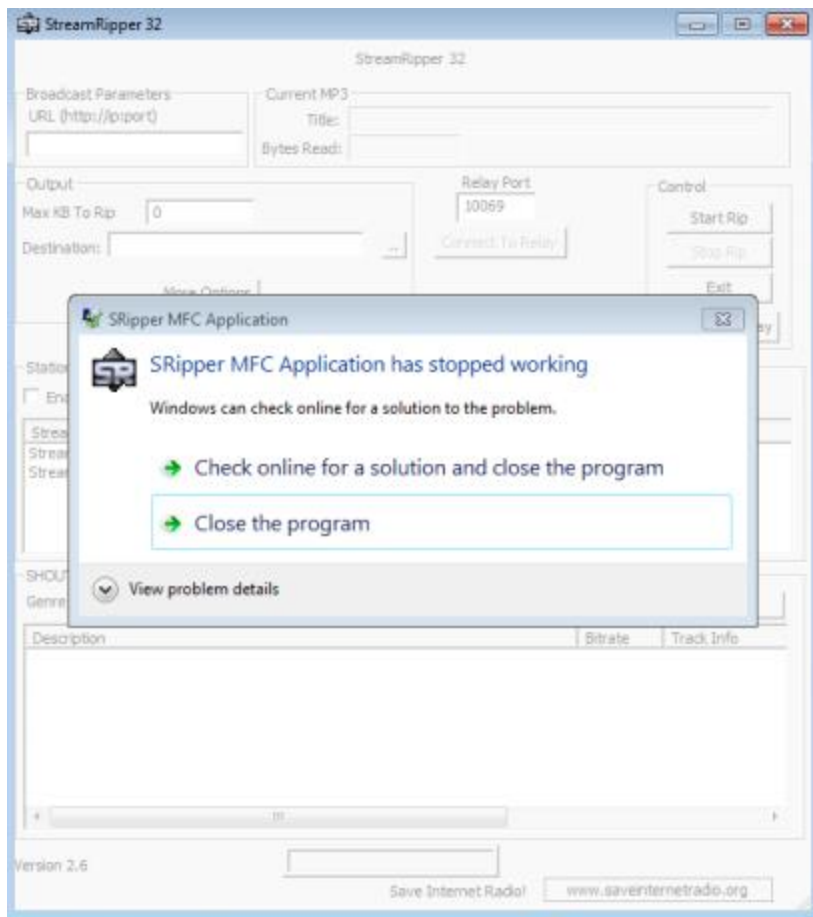
The screenshot shows the StreamRipper 32 application window. The title bar reads "StreamRipper 32". The window is divided into several sections:

- Broadcast Parameters:** Includes a "URL (http://ip:port)" field.
- Current MP3:** Includes "Title:" and "Bytes Read:" fields.
- Output:** Includes "Max KB To Rip" (set to 0) and "Destination:" fields.
- Relay Port:** Includes a "Relay Port" field (set to 10069) and a "Connect To Relay" button.
- Control:** Includes "Start Rip", "Stop Rip", "Exit", and "Hide To Systray" buttons.
- Station/Song Matching:** Includes an "Enable" checkbox, "Add", and "Delete" buttons. Below is a table with two columns: "Stream Name" and "Pattern".
- SHOUTcast.com Directory:** Includes a "Genre:" dropdown, "Refresh List", "Search Text" field, and "Search" button. Below is a table with three columns: "Description", "Bitrate", and "Track Info".

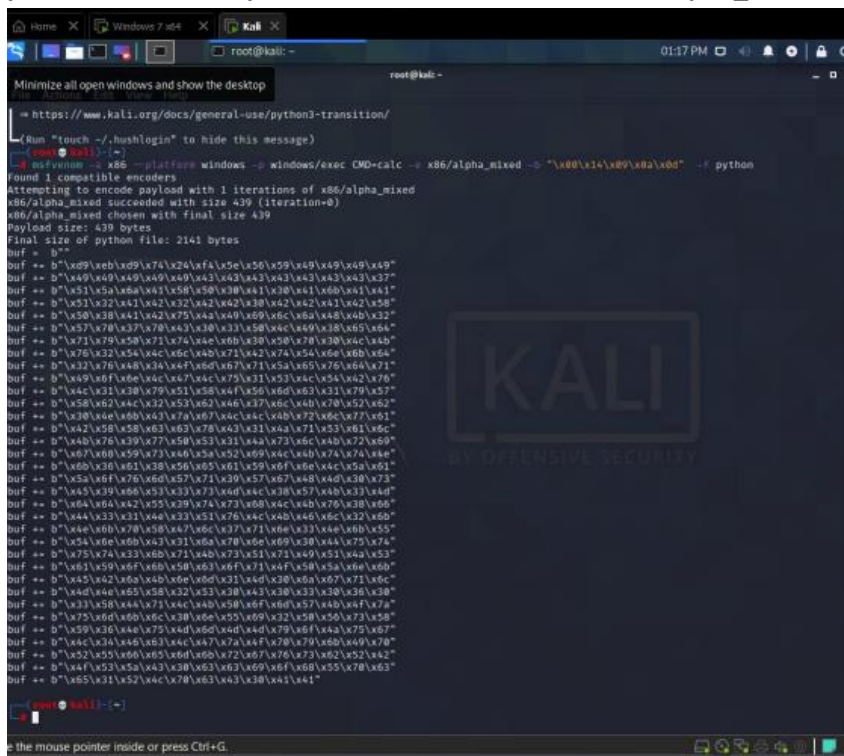
At the bottom of the window, it says "Version 2.6", "Save Internet Radio!", and "www.saveinternetradio.org".

Stream Name	Pattern
StreamRipper 32	AAAAAAAAA...
StreamRipper 32	AAAAAAAAA...

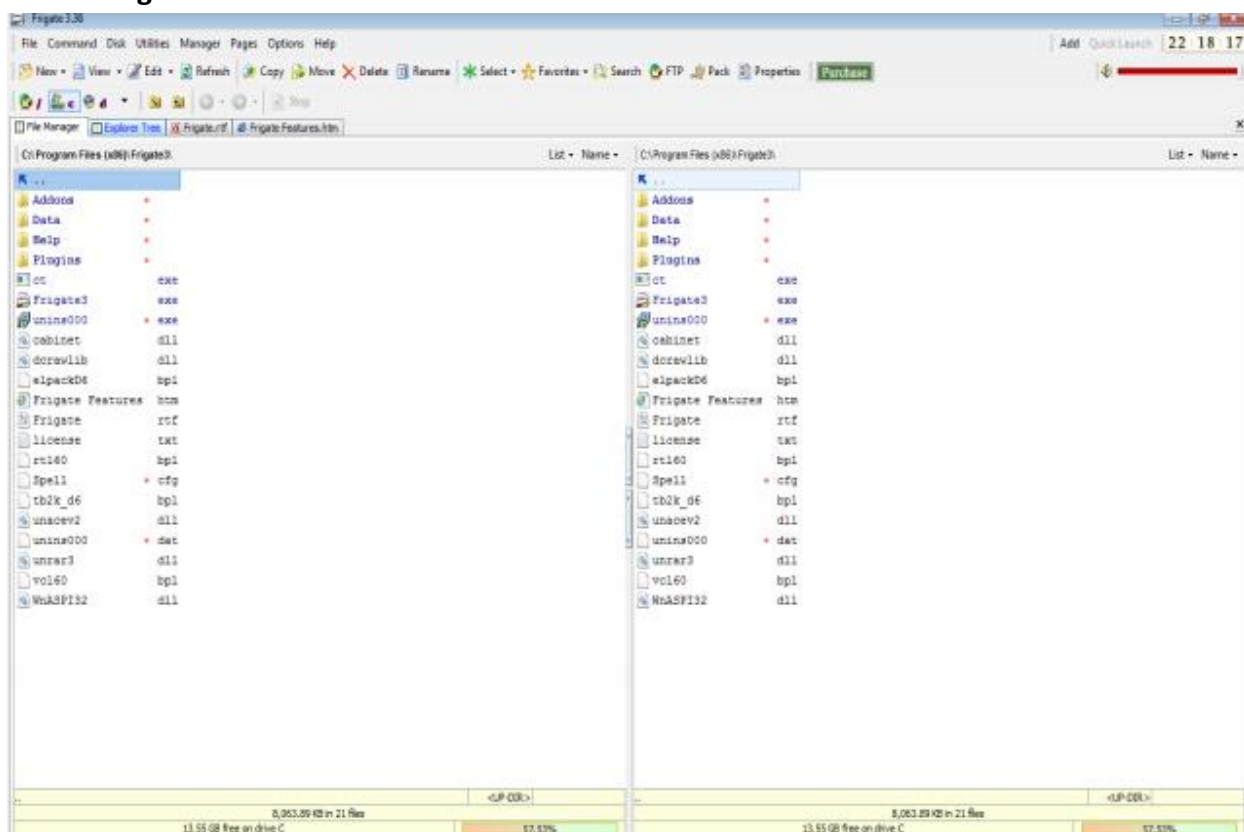
Description	Bitrate	Track Info
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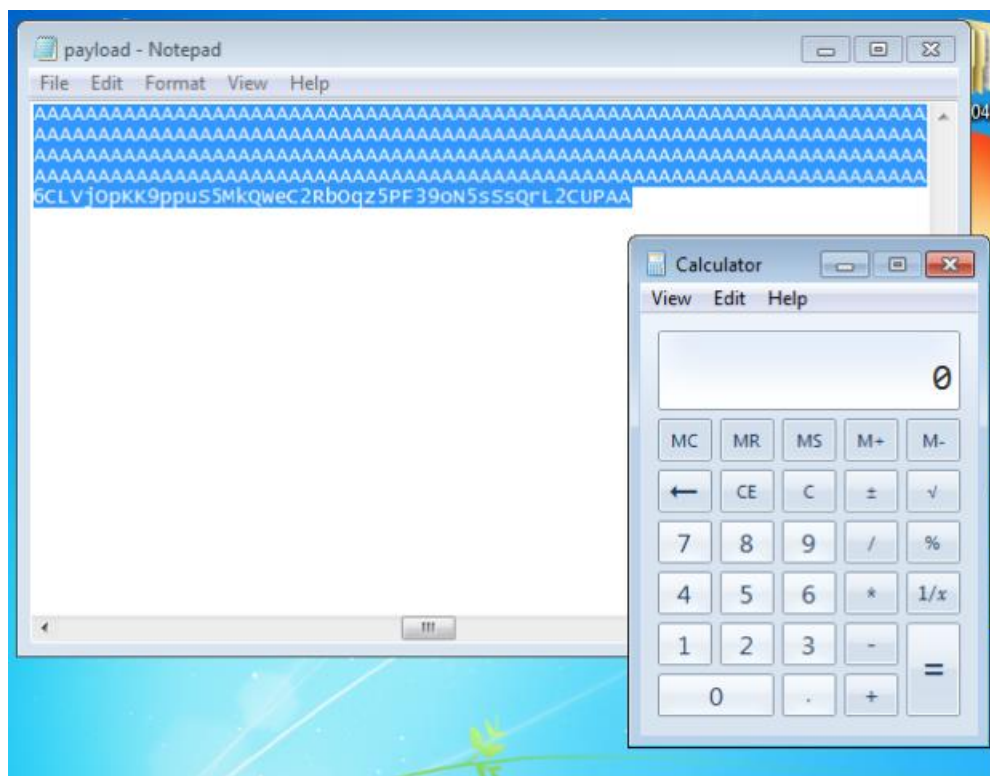
- Change the default trigger from cmd.exe to calc.exe (Use msfvenom in Kali linux). `msfvenom -a x86 --platform windows -p windows/exec CMD=calc -e x86/alpha_mixed -b '\x00\x14\x09\x0a\x0d' -f python`



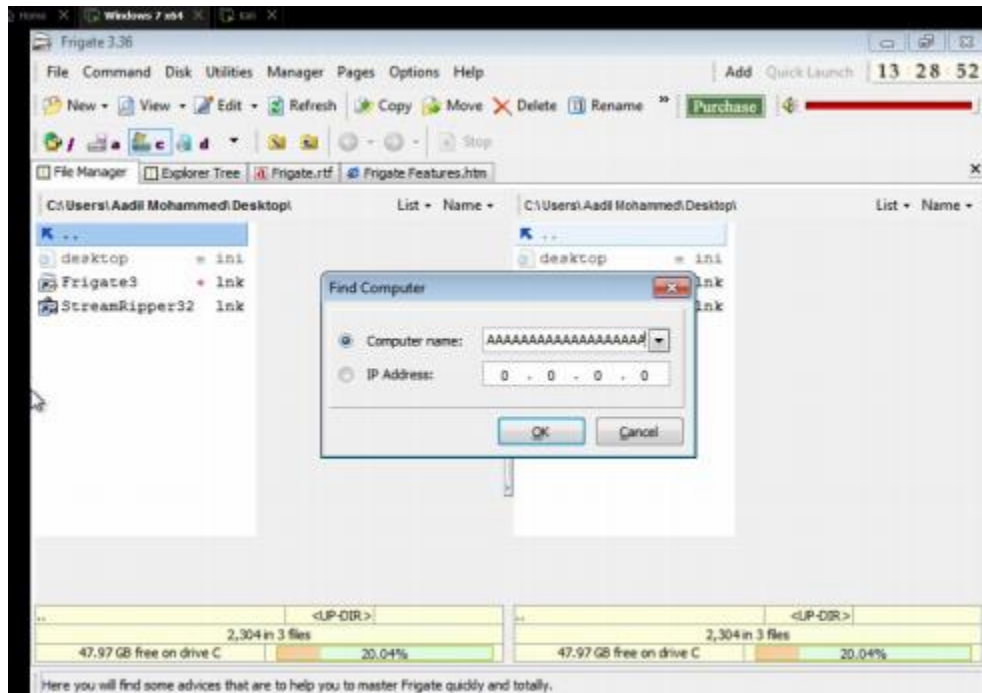
- Install frigate.exe and run the same.



- Application crashes and opens calculator.exe



- Vulnerability found by generating payload at the find computer field



- The application crashes and opens control panel

