CSE 2010 || Secure Coding

WIN 20-21

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Topic: Working with the memory vulnerabilities - Part II

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
- Install Vuln_Program_Stream.exe and Run the same

Analysis

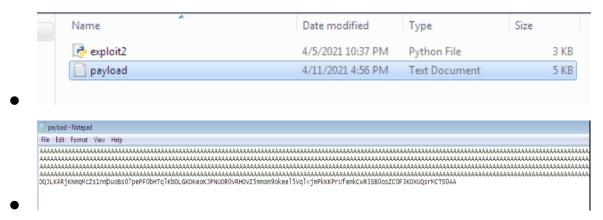
- Try to crash the Vuln_Program_Stream program and exploit it
- Change the default trigger from cmd.exe to calc.exe (Use msfvenom in Kali linux).

Example:

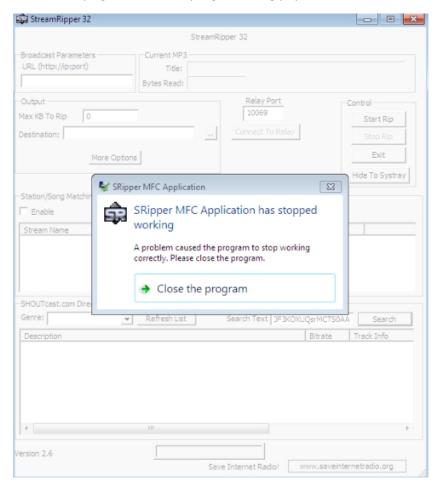
msfvenom -a x86 --platform windows -p windows/exec CMD=calc -e x86/alpha_mixed -b " $x00\x14\x09\x0a\x0d$ " -f python

• Change the default trigger to open control panel.

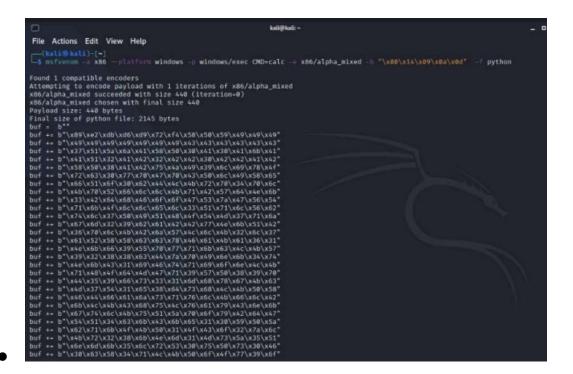
Generating payload.



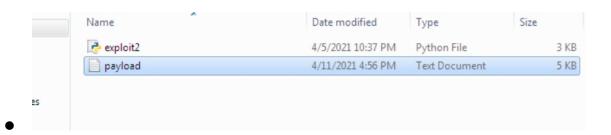
Now trying to crash vuln program using payload



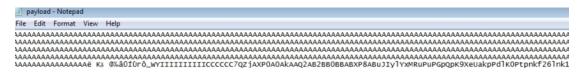
- Now payload got crashed successfully
- Now Generate shell code in kali linux using MSFvenom
- Change the default trigger from cmd.exe to calc.exe



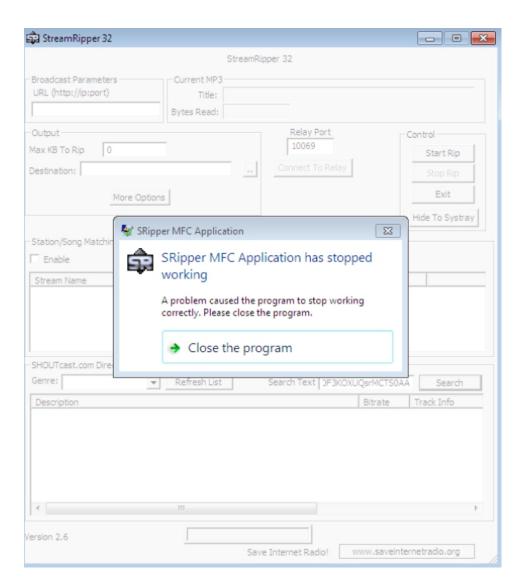
Now payload is getting generated for changed shell code



after executing exploit2.py script:(for calculator)



- After running it in vuln:
- Analysis
 - Vuln got crossed



After crossing the calculator opened

