CSE 2010- Secure Coding

WIN 20-21

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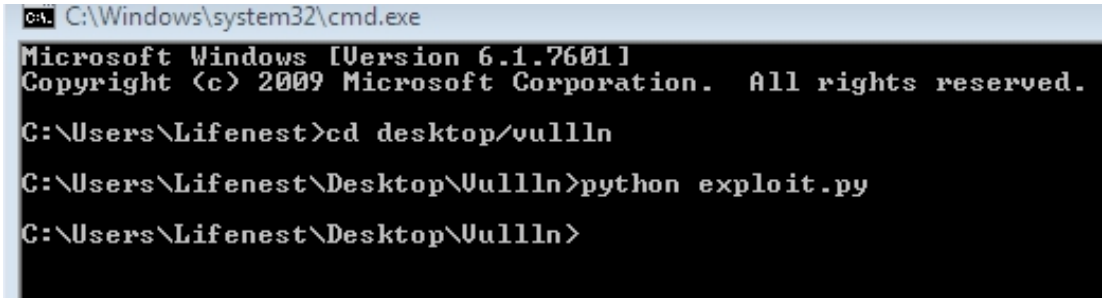
Lab experiment - Working with the memory vulnerabilities

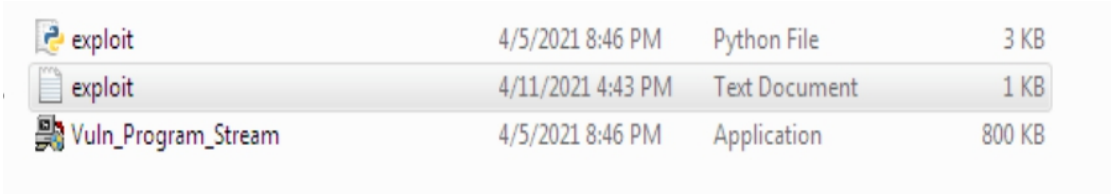
Task

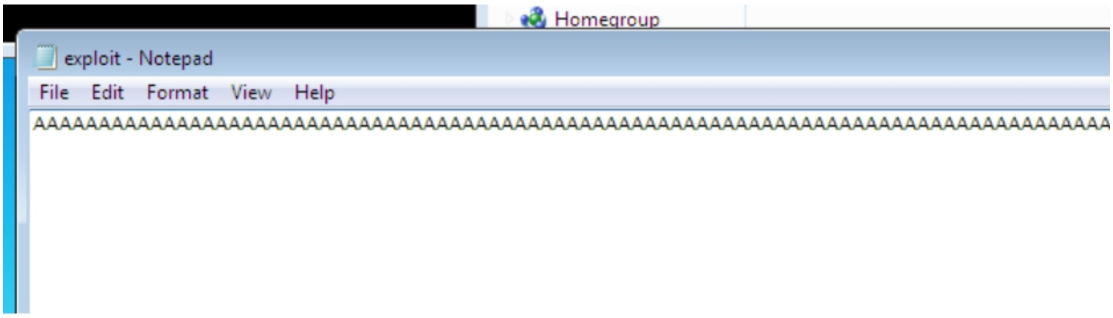
- **Download Vulln.zip from teams.**
- **Deploy a virtual windows 7 instance and copy the Vulln.zip into it.**
- **Unzip the zip file. You will find two files named exploit.py and Vuln_Program_Stream.exe**
- **Download and install python 2.7.* or 3.5.***
- **Run the exploit script to generate the payload**
- **Install Vuln_Program_Stream.exe and Run the same**

Analysis

- **Crash the Vuln_Program_Stream program and report the vulnerability.**

- Run the python script to generate payload.
- 

- Payload gets generated.
- 



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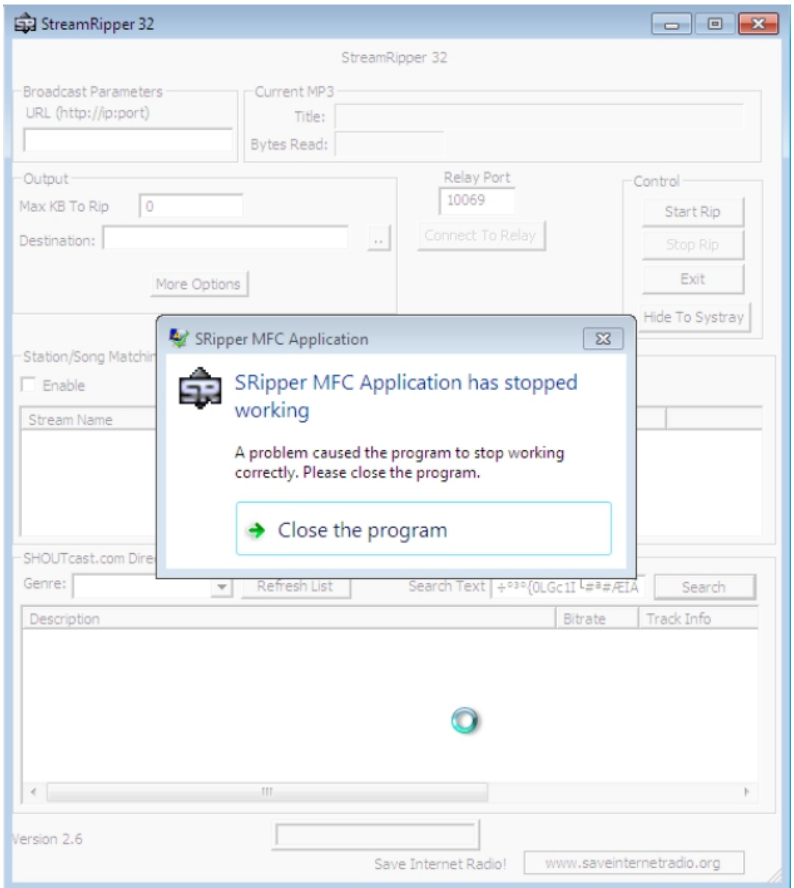
- Open stream ripper and generate payload into intake search bar that has vulnerability.
- Then stream ripper crashes and cmd will open.
- 

Now this is because of buffer overflow, a vulnerability that is an anomaly where a program, while writing data to a **buffer**, **overruns** the **buffer's** boundary and overwrites adjacent memory locations.