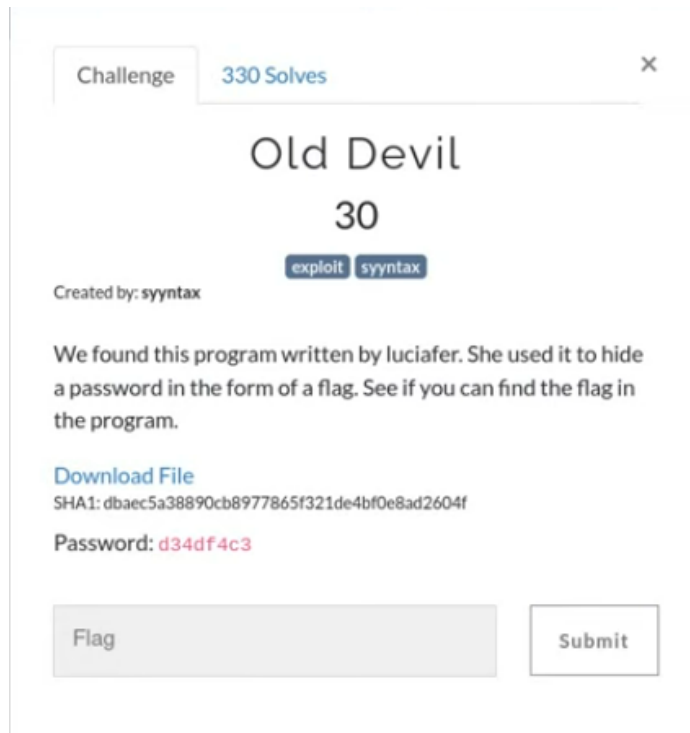


# Deadface CTF Writeup

## Binary Exploitation

### 1. Old Devil



**Step 1:** As usual checking the file type using **file** command  
The file itself is a **ELF Binary** file means a Linux executable file

**Step 2:** Running the program it asks for a demon name to access the secret

```
th4nv33r@linux:~/Documents/CTF/DeadfaceCTF/solved$ ./demon
Luciafer v1.0
Say the demon's name to gain access to the secret.
Enter the demon's name: flag
That is not the demon's name.
```

**Step 3:** I checked for strings for any clues for this challenge, then I found they are using **strcmp**

**Note:** The strcmp() Function in C. ... The strcmp() function is used to compare two strings str1 and str2

**Step 3:** Then I tried to debug the program so far I used **ltrace**

**Note:** ltrace is a library call tracer and it is primarily used to trace calls made by programs to library functions.

**Step 4:** passing hello as a string then I found the demon name  
**Adrammelech**

```
th4nv33r@linux:~/Documents/CTF/DeadfaceCTF/solved$ ltrace ./demon
puts("\nLuciafer v1.0\nSay the demon's n"...
Luciafer v1.0
Say the demon's name to gain access to the secret.
)
printf("Enter the demon's name: ")
gets(0x7fff51d26b01, 0x557c8beb606a, 0, 0Enter the demon's name: hello
)
strcmp("hello", "Adrammelech")
puts("\nThat is not the demon's name."
That is not the demon's name.
)
+++ exited (status 0) +++
```

**Step 5:** Prompting the name in the program Booomm!! Got the Flag :)

```
th4nv33r@linux:~/Documents/CTF/DeadfaceCTF/solved$ ./demon
Luciafer v1.0
Say the demon's name to gain access to the secret.
Enter the demon's name: Adrammelech

You are correct.
flag{AdraMMel3ch}
```

**flag{AdraMMel3ch}**