

PicoCTF Buffer Overflow 0 Write Up



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The PicoCTF Buffer Overflow 0 challenge provides the source code of a program, as well as the compiled program itself. The goal here is to get the PicoCTF{"Flag"} as is any ctf challenge.

Starting off I connected to the given netcat connection to see what the initial behavior of the program is:

Tags: [picoCTF 2022](#) [Binary Exploitation](#) [gets](#)

AUTHOR: ALEX FULTON / PALASH OSWAL

Description

Smash the stack

Let's start off simple, can you overflow the correct buffer? The program is available [here](#). You can view source [here](#). And connect with it using:

```
nc saturn.picoctf.net 61481
```

Challenge

```
~/CTF/picoctf
nc saturn.picoctf.net 61481
Input: 123
The program will exit now
```

Program Running

After connecting and running the program we can see that the program accepts input from the user and then exits, very simple program and not much to be gathered from simply running the program, so I decided to go ahead and have a look at the source code.

Buffer Overflow

As we can see, the input being too large for the buffer caused it to overflow, triggering the sigsegv_handler() function, which prints out the flag. We have successfully overran the buffer and just have to submit the flag for points in the picoCTF gym.

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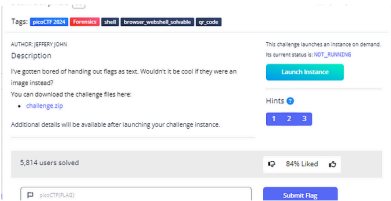


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