Lab CTF 3

SID: 12012919

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题目1 fmt

题目描述: Read the flag from stack!

分析

We can follow the steps

步骤

1. Since the machine is 64-bit, so I use a string of %.1611x to read the address of the stack.

2. Notice that the address in the server is little-endian, so I need to reverse the address to get the correct characters.

3. Use ASCII decoding and get the flag string.

```
• °öþ•ĐH©W>•ÿÿÿÿÿÿÿÄH©W>•À•ÌW>•••°öþ••7ÌW••¦•W>•`rê•flag{1d65c518-f603-4414-9647-71d27418b8ad}
E•°
```

Flag

```
flag{1d65c518-f603-4414-9647-71d27418b8ad}
```

题目2 write

题目描述: If you are lucky enough, you would win.

分析

We can follow the steps

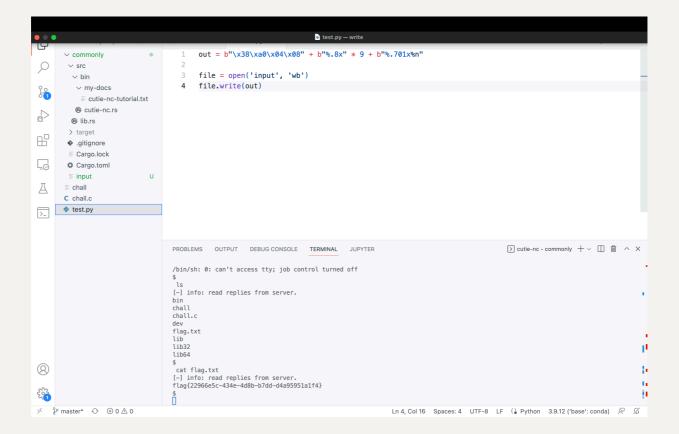
步骤

- 1. use objdump -x chall to disassemble the executable file chall
- 2. get the secret address in the stack, which is 0x0804a038

```
TERMINAL
                                     JUPYTER
 PROBLEMS 1 OUTPUT DEBUG CONSOLE
 0804a02c g
            data 00000000 __data_start
         .data 00000000 __data_start
F *UND* 00000000 system@GGLIBC_2.0
 00000000
           *UND* 00000000 __gmon_start_
 00000000 w
 00000004 IO stdin used
          F *UND* 00000000 __libc_start_main@@GLIBC_2.0
 00000000
 080486b0 g F .text 0000005d __libc_csu_init
 00000000
         0 *UND* 00000000 stdin@@GLIBC_2.0
 00000000
 00000000 F *UND* 00000000 setre
080483b8 g F init 00000000 _init
○ (base) leo@Leo-Adventure write %
```

3. Input a string of %.8x to sniff the offset to the beginning of input, which is 11

4. Use the network connection program provided py CutieDeng https://github.com/ CutieDeng/commonly, and file the input to server, I can get the flag.



Flag

flag{22966e5c-434e-4d8b-b7dd-d4a95951a1f4}