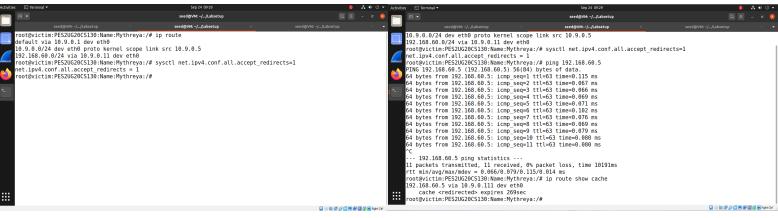
H M Mythreya PES2UG20CS130 CNS LAB - 4

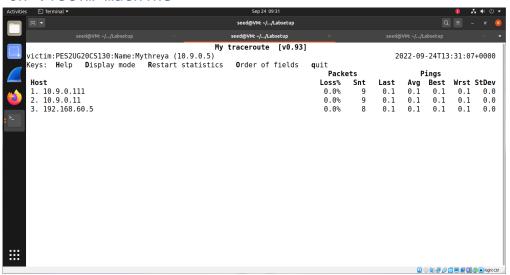
Task 1A: Launching ICMP Redirect Attack

Victim, setting redirects to 1

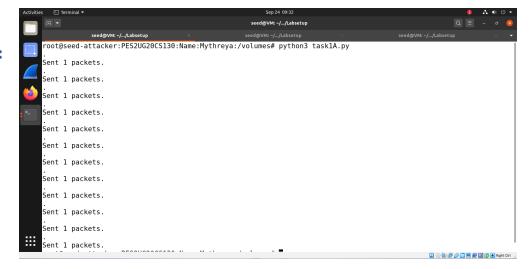
Pinging and checking route cache



Traceroute on victim machine

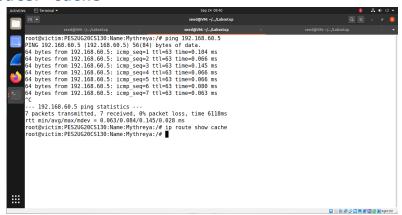


Attacker:

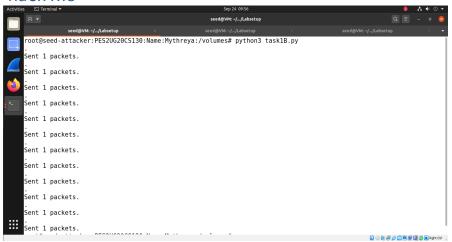


Task 1B

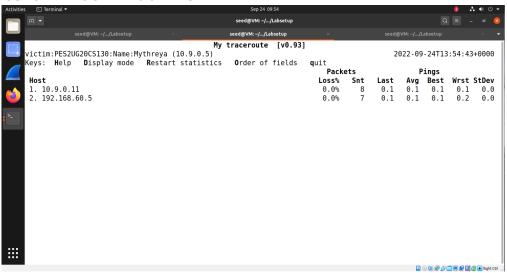
Victim's router cache



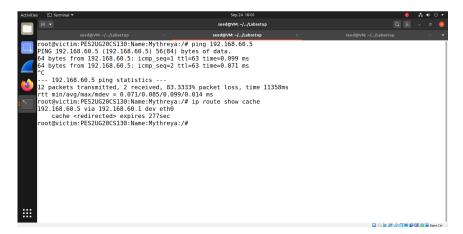
Attacker Machine



Traceroute on victim machine



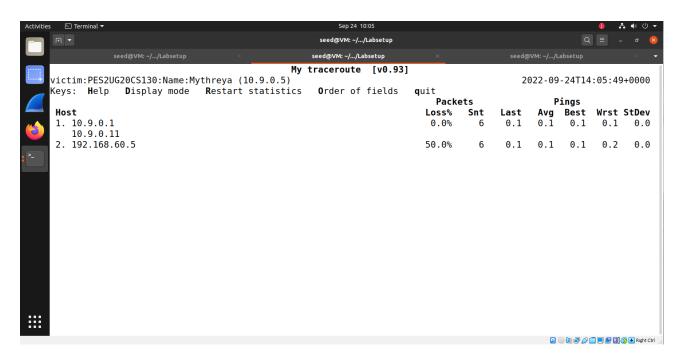
Task 1C Victim



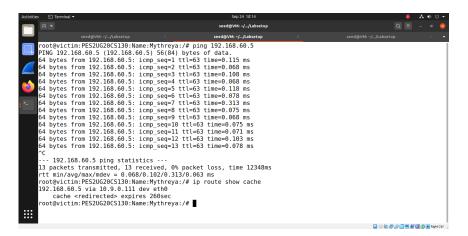
Attacker



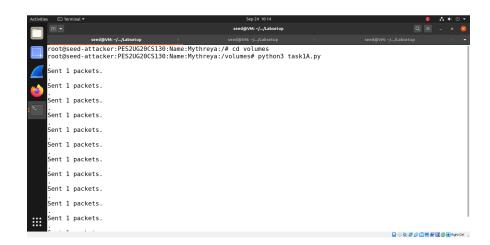
traceroute



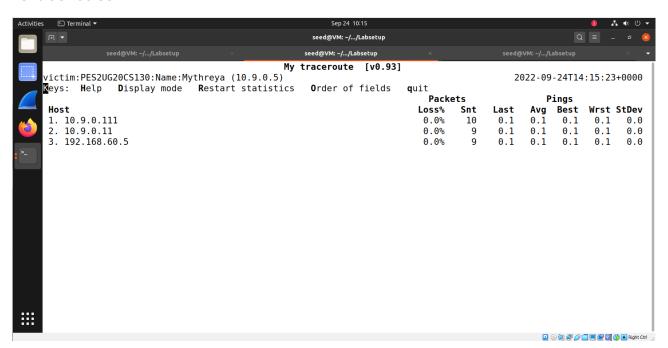
Task 1D Victim



Attacker



traceroute



Task 2: Launching the MITM Attack

Establishing netcat between victim and host (192.168.60.6)

root@victim:PES2UG20CS130:Name:Mythreya:/# nc 192.168.60.5 9090
hi

this is victim machine

```
seed@VM:-/.../Labsetup × seed@VM:-/.../Labsetup × seed@VM:-/.../Labsetup × ▼
root@hostB1:PES2UG20CS130:Name:Mythreya:/# nc -lp 9090
hi
this is victim machine
```

Launching MITM attack from malicious router

```
seed@VM:~/.../volumes × seed@VM:~/.../volumes × ▼
root@malicious-router:PES2UG20CS130:Name:Mythreya:/volumes# python3 mitm.py
LAUNCHING MITM ATTACK......
*** b'Mythreya\n', length: 9
```

Victim and Host have different messages:

```
seed@VM:-/.../Labsetup × seed@VM:-/.../Labsetup × seed@VM:-/.../Labsetup × root@victim:PES2UG20CS130:Name:Mythreya:/# nc 192.168.60.5 9090 hi this is victim machine Mythreya

seed@VM:-/.../Labsetup × seed@VM:-/.../Labsetup × seed@VM:-/.../Labsetup × root@hostB1:PES2UG20CS130:Name:Mythreya:/# nc -lp 9090 hi this is victim machine AAAAAAAAA
```

Wireshark:

