

**Information Security Analysis and Audit**

**Lab Digital Assignment 4**

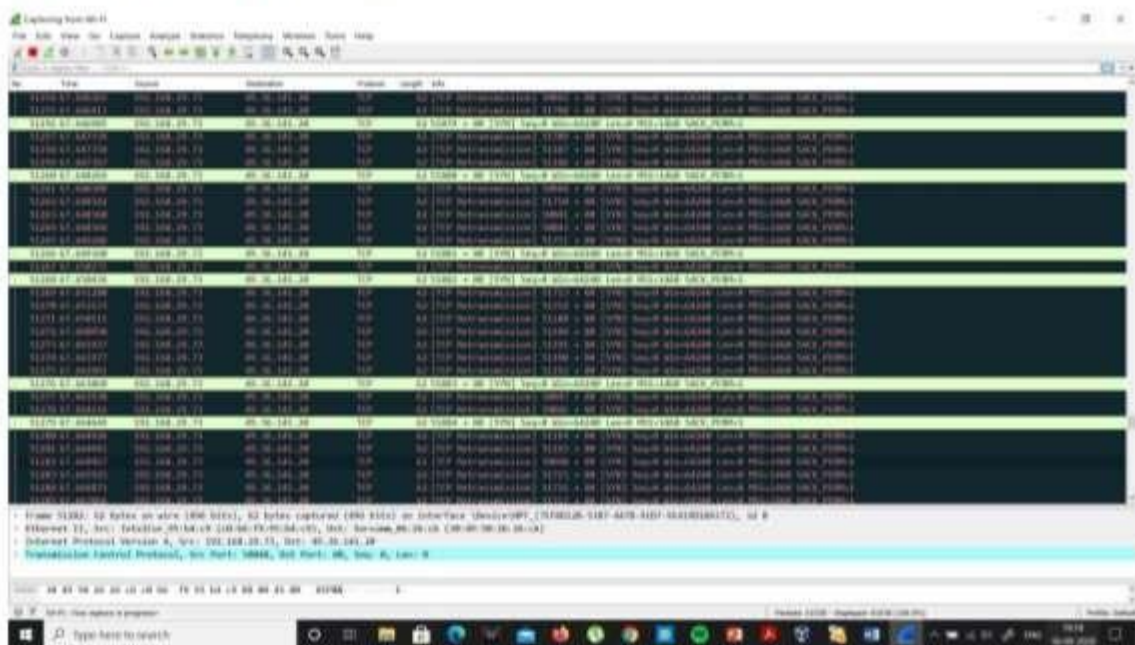
Submitted By: Tej Prakash Agarwal(18BCI0035)

## IPspoofing:-

Flooding with random source IP:-

```
root@mint:/home/mint
File Edit View Search Terminal Help
root@mint:/home/mint# hping3 --flood -p 88 49.36.141.28 -S --rand-source
HPING 49.36.141.28 (enp0s3 49.36.141.28): S set, 40 headers + 0 data bytes
hping in flood mode, no replies will be shown
```

Capturing packets using wireshark:-

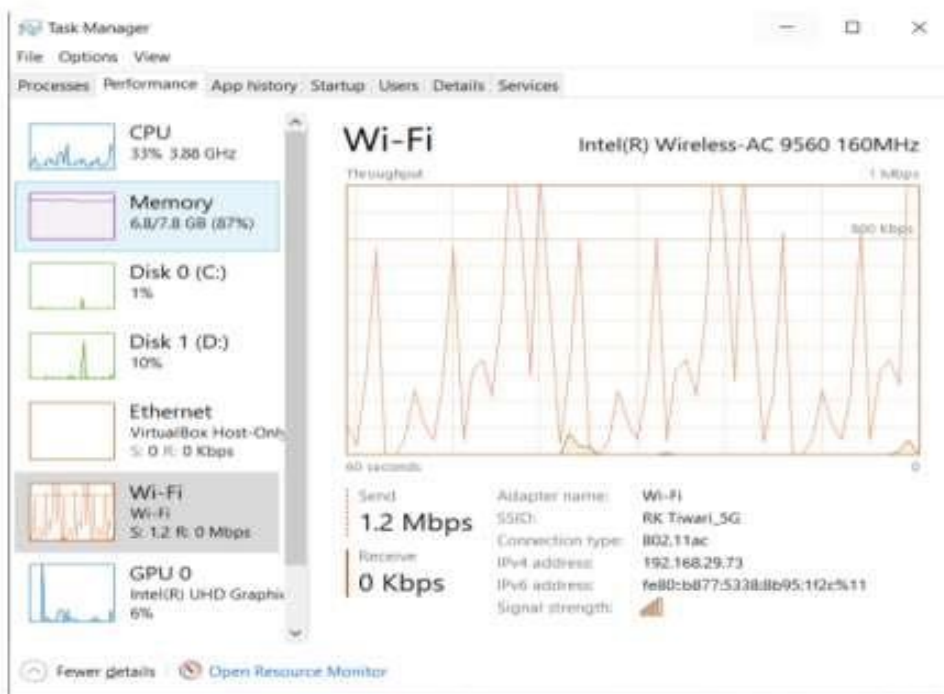


## Network traffic on victim system:-

Before:-



After :-



### Arpspoof:-

### Getting gateway IP of the router:-

```
root@mint: /home/mint
File Edit View Search Terminal Help
root@mint:/home/mint# ip r
default via 10.0.2.2 dev enp0s3 proto dhcp metric 20100
10.0.2.0/24 dev enp0s3 proto kernel scope link src 10.0.2.15 metric 100
169.254.0.0/16 dev enp0s3 scope link metric 1000
root@mint:/home/mint#
```

Victim IP - 49.36.141.20

```

root@mint: /home/mint
File Edit View Search Terminal Help
root@mint:/home/mint# ip r
default via 10.0.2.2 dev enp0s3 proto dhcp metric 20100
10.0.2.0/24 dev enp0s3 proto kernel scope link_src 10.0.2.15 metric 100
169.254.0.0/16 dev enp0s3 scope link metric 1000
root@mint:/home/mint# ip a
1: lo: <LOOPBACK,UP,LOWER_UP> mtu 65536 qdisc noqueue state UNKNOWN group default
    tqlen 1000
        link/loopback 00:00:00:00:00:00 brd 00:00:00:00:00:00
        inet 127.0.0.1/8 scope host lo
            valid_lft forever preferred_lft forever
        inet6 ::1/128 scope host
            valid_lft forever preferred_lft forever
2: enp0s3: <BROADCAST,MULTICAST,UP,LOWER_UP> mtu 1500 qdisc fq_codel state UP group default qlen 1000
    link/ether 08:00:27:10:12:47 brd ff:ff:ff:ff:ff:ff
    inet 10.0.2.15/24 brd 10.0.2.255 scope global dynamic noprefixroute enp0s3
        valid_lft 85681sec preferred_lft 85681sec
    inet6 fe80::d8a9:7864:b79d:bd8b/64 scope link noprefixroute
        valid_lft forever preferred_lft forever
root@mint:/home/mint#

```

Spoofing the router that I am the target:-

[illegible]

```
C:\Users\hp>arp -a
```

```
Interface: 192.168.56.1 --- 0x7
```

Internet Address	Physical Address	Type
192.168.56.255	ff-ff-ff-ff-ff-ff	static
224.0.0.22	01-00-5e-00-00-16	static
224.0.0.251	01-00-5e-00-00-fb	static
224.0.0.252	01-00-5e-00-00-fc	static
239.255.255.250	01-00-5e-7f-ff-fa	static
255.255.255.255	ff-ff-ff-ff-ff-ff	static

```
Interface: 192.168.137.1 --- 0xd
```

Internet Address	Physical Address	Type
192.168.137.255	ff-ff-ff-ff-ff-ff	static
224.0.0.22	01-00-5e-00-00-16	static
224.0.0.251	01-00-5e-00-00-fb	static
224.0.0.252	01-00-5e-00-00-fc	static
239.255.255.250	01-00-5e-7f-ff-fa	static
255.255.255.255	ff-ff-ff-ff-ff-ff	static

```
Interface: 192.168.43.147 --- 0xf
```

Internet Address	Physical Address	Type
192.168.43.1	8a-a3-03-b7-49-4d	dynamic
192.168.43.255	ff-ff-ff-ff-ff-ff	static
224.0.0.22	01-00-5e-00-00-16	static
224.0.0.251	01-00-5e-00-00-fb	static
224.0.0.252	01-00-5e-00-00-fc	static
239.255.255.250	01-00-5e-7f-ff-fa	static
255.255.255.255	ff-ff-ff-ff-ff-ff	static

```
C:\Users\hp>
```