

1. To find the networks connected, I used ifconfig

```
root@kali:~# ifconfig
eth0: flags=4163<UP,BROADCAST,RUNNING,MULTICAST> mtu 1500
    inet 10.0.2.15 netmask 255.255.255.0 broadcast 10.0.2.255
    inet6 fe80::a00:27ff:fe89:3db prefixlen 64 scopeid 0x20<link>
    ether 08:00:27:89:03:db txqueuelen 1000 (Ethernet)
    RX packets 20 bytes 4391 (4.2 KiB)
    RX errors 0 dropped 0 overruns 0 frame 0
    TX packets 45 bytes 3951 (3.8 KiB)
    TX errors 0 dropped 0 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 20 bytes 1116 (1.0 KiB)
    RX errors 0 dropped 0 overruns 0 frame 0
    TX packets 20 bytes 1116 (1.0 KiB)
    TX errors 0 dropped 0 overruns 0 carrier 0 collisions 0

wlan0: flags=4099<UP,BROADCAST,MULTICAST> mtu 1500
    unspec 7A-39-77-6D-23-65-30-3A-00-00-00-00-00-00-00-00 txqueuelen 1000 (UNSPEC)
    RX packets 154137 bytes 21263976 (20.2 MiB)
    RX errors 0 dropped 141510 overruns 0 frame 0
    TX packets 0 bytes 0 (0.0 B)
    TX errors 0 dropped 0 overruns 0 carrier 0 collisions 0
```

2. I used ifconfig wlan0 down to shut down my wlan0 connection.
3. I used ifconfig again to see if wlan0 is still up and running. In this case, it is down.

```
root@kali:~# ifconfig
eth0: flags=4163<UP,BROADCAST,RUNNING,MULTICAST> mtu 1500
    inet 10.0.2.15 netmask 255.255.255.0 broadcast 10.0.2.255
    inet6 fe80::a00:27ff:fe89:3db prefixlen 64 scopeid 0x20<link>
    ether 08:00:27:89:03:db txqueuelen 1000 (Ethernet)
    RX packets 20 bytes 4391 (4.2 KiB)
    RX errors 0 dropped 0 overruns 0 frame 0
    TX packets 45 bytes 3951 (3.8 KiB)
    TX errors 0 dropped 0 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 20 bytes 1116 (1.0 KiB)
    RX errors 0 dropped 0 overruns 0 frame 0
    TX packets 20 bytes 1116 (1.0 KiB)
    TX errors 0 dropped 0 overruns 0 carrier 0 collisions 0
```

4. I used iwconfig wlan0 mode monitor to monitor wlan0
5. Then by using ifconfig wlan0 up, I enabled the wlan0 back.

6. To make sure that wlan0 is back up again, I rechecked using ifconfig.

```
root@kali:~# ifconfig
eth0: flags=4163<UP,BROADCAST,RUNNING,MULTICAST> mtu 1500
    inet 10.0.2.15 netmask 255.255.255.0 broadcast 10.0.2.255
    inet6 fe80::a00:27ff:fe89:3db prefixlen 64 scopeid 0x20<link>
    ether 08:00:27:89:03:db txqueuelen 1000 (Ethernet)
    RX packets 20 bytes 4391 (4.2 KiB)
    RX errors 0 dropped 0 overruns 0 frame 0
    TX packets 45 bytes 3951 (3.8 KiB)
    TX errors 0 dropped 0 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 20 bytes 1116 (1.0 KiB)
    RX errors 0 dropped 0 overruns 0 frame 0
    TX packets 20 bytes 1116 (1.0 KiB)
    TX errors 0 dropped 0 overruns 0 carrier 0 collisions 0

wlan0: flags=4099<UP,BROADCAST,MULTICAST> mtu 1500
    unspec 0A-F1-3B-41-E9-7F-30-3A-00-00-00-00-00-00-00-00 txqueuelen 1000 (UNSPEC)
    RX packets 155004 bytes 21423897 (20.4 MiB)
    RX errors 0 dropped 142377 overruns 0 frame 0
    TX packets 0 bytes 0 (0.0 B)
    TX errors 0 dropped 0 overruns 0 carrier 0 collisions 0
```

7. I then ran the sniffer.py code and it returns which networks do the devices near me are asking for.

```
root@kali:~/Desktop# python sniffer.py
[+] Detected New Probe Request:
[+] Detected New Probe Request: notat74troid44sval
[+] Detected New Probe Request: A2q
[+] Detected New Probe Request: media63evert51jolle
```