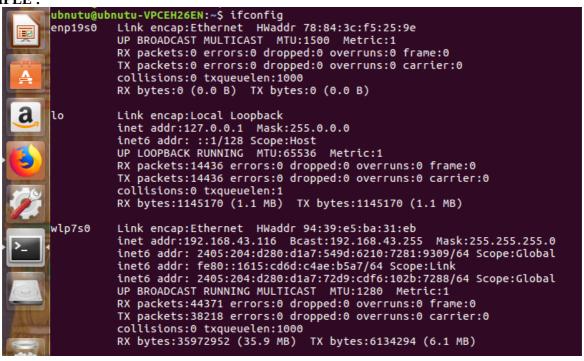
EXPERIMENT NO:2 DRISHYA M ROLL NO:66 S4 CS DATE:21/02/19

#### **AIM**

Set up the complete network interface by configuring services such as gateway, DNS, IP tables etc. using ifconfig.

## **COMMAND 1:View All Network Setting SAMPLE:**



### **COMMAND 2:Display Information of All Network Interfaces SAMPLE:**

```
ubnutu@ubnutu-VPCEH26EN:~$ ifconfig -a
enp19s0
Link encap:Ethernet HWaddr 78:84:3c:f5:25:9e
UP BROADCAST MULTICAST MTU:1500 Metric:1
RX packets:0 errors:0 dropped:0 overruns:0 frame:0
TX packets:0 errors:0 dropped:0 overruns:0 carrier:0
collisions:0 txqueuelen:1000
RX bytes:0 (0.0 B) TX bytes:0 (0.0 B)

lo
Link encap:Local Loopback
inet addr:127.0.0.1 Mask:255.0.0.0
inet6 addr: ::1/128 Scope:Host
UP LOOPBACK RUNNING MTU:65536 Metric:1
RX packets:14805 errors:0 dropped:0 overruns:0 frame:0
TX packets:14805 errors:0 dropped:0 overruns:0 carrier:0
collisions:0 txqueuelen:1
RX bytes:1172782 (1.1 MB) TX bytes:1172782 (1.1 MB)

wlp7s0
Link encap:Ethernet HWaddr 94:39:e5:ba:31:eb
inet addr:192.168.43.116 Bcast:192.168.43.255 Mask:255.255.255.0
inet6 addr: 2405:204:d407:c9cb:69f4:d0ff:5252:9a4c/64 Scope:Global
inet6 addr: 4605:204:d407:c9cb:69f4:d0ff:5252:9a4c/64 Scope:Global
inet6 addr: fe80::a0b2:92f:e97d:438a/64 Scope:Link
UP BROADCAST RUNNING MULTICAST MTU:1280 Metric:1
RX packets:44550 errors:0 dropped:0 overruns:0 frame:0
TX packets:38514 errors:0 dropped:0 overruns:0 frame:0
TX packets:38514 errors:0 dropped:0 overruns:0 carrier:0
collisions:0 txqueuelen:1000
RX bytes:36003709 (36.0 MB) TX bytes:6186764 (6.1 MB)
```

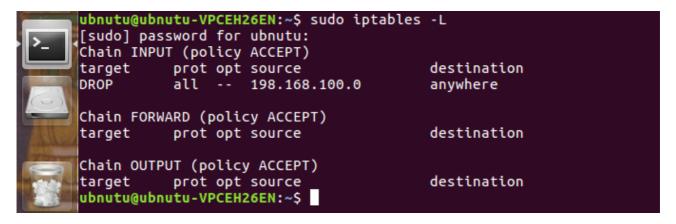
## **COMMAND 3:Gateway configuration SAMPLE**

```
ubnutu@ubnutu-VPCEH26EN:-$ sudo route add default gw 192.168.43.1
ubnutu@ubnutu-VPCEH26EN:-$ ifconfig
enp19s0 Link encap:Ethernet HWaddr 78:84:3c:f5:25:9e
UP BROADCAST MULTICAST MTU:1500 Metric:1
RX packets:0 errors:0 dropped:0 overruns:0 frame:0
TX packets:0 errors:0 dropped:0 overruns:0 carrier:0
collisions:0 txqueuelen:1000
RX bytes:0 (0.0 B) TX bytes:0 (0.0 B)

lo Link encap:Local Loopback
inet addr: 2:1/12B Scope:Host
UP LOOPBACK RUNNING MTU:65536 Metric:1
RX packets:13763 errors:0 dropped:0 overruns:0 frame:0
TX packets:13763 errors:0 dropped:0 overruns:0 frame:0
TX packets:13763 errors:0 dropped:0 overruns:0 carrier:0
collisions:0 txqueuelen:1
RX bytes:109240B (1.0 MB) TX bytes:109240B (1.0 MB)

wlp7s0 Link encap:Ethernet HWaddr 94:39:es5:ba3:16
inet addr: 192.168.43.116 Bcast:192.168.43.255 Mask:255.255.255.0
inet6 addr: 2405:204:d407:c9cb:69f4:d0ff:5252:9a4c/64 Scope:Global
inet6 addr: 2405:204:d407:c9cb:69f4:d0ff:5252:9a4c/64 Scope:Global
inet6 addr: 2805:204:d407:c9cb:69f4:d0ff:5252:9a4c/64 Scope:Global
inet6 addr: Res0::a0b2:92f:e97d:438a/64 Scope:Link
UP BROADCAST RUNNING MULTICAST MTU:1280 Metric:1
RX packets:43403 errors:0 dropped:0 overruns:0 frame:0
TX packets:37174 errors:0 dropped:0 overruns:0 frame:0
TX packets:37174 errors:0 dropped:0 overruns:0 frame:0
Collisions:0 txqueuelen:1000
RX bytes:35771058 (35.7 MB) TX bytes:5942085 (5.9 MB)
```

#### **COMMAND 4: IP Tables Listing SAMPLE:**



# **COMMAND 5 : DNS Configuration SAMPLE :**

```
ubnutu@ubnutu-VPCEH26EN:~$ sudo echo "nameserver 192.168.43.1" >> /etc/resolv.conf bash: /etc/resolv.conf: Permission denied ubnutu@ubnutu-VPCEH26EN:~$ nano /etc/resolv.conf ubnutu@ubnutu-VPCEH26EN:~$ cat /etc/resolv.conf # Dynamic resolv.conf(5) file for glibc resolver(3) generated by resolvconf(8) # DO NOT EDIT THIS FILE BY HAND -- YOUR CHANGES WILL BE OVERWRITTEN nameserver 127.0.1.1
```

#### **CONCLUSION:**

Set up the complete network interface by configuring services such as gateway, DNS, IP tables etc. using ifconfig have been done and result obtained as above.