Vyshnavi E K Roll No:60 21/02/2019

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

1. View all network setting

vyshnavi@vyshnavi-X541UJ:~\$ ifconfig enp2s0f2 Link encap:Ethernet HWaddr 88:d7:f6:1a:d2:e8 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:1626 errors:0 dropped:0 overruns:0 frame:0 TX packets:1626 errors:0 dropped:0 overruns:0 carrier:0

collisions:0 txqueuelen:1000

RX bytes:124226 (124.2 KB) TX bytes:124226 (124.2 KB)

wlp3s0 Link encap:Ethernet HWaddr 3c:95:09:1b:1e:a8

inet addr:192.168.43.116 Bcast:192.168.43.255 Mask:255.255.255.0 inet6 addr: 2405:204:d203:9200:6039:f234:85e0:12c3/64 Scope:Global

inet6 addr: fe80::ce95:1173:8977:5742/64 Scope:Link

inet6 addr: 2405:204:d203:9200:cb55:bbf5:72ee:7dee/64 Scope:Global UP BROADCAST RUNNING MULTICAST MTU:1500 Metric:1

RX packets:7286 errors:0 dropped:0 overruns:0 frame:0 TX packets:4907 errors:0 dropped:0 overruns:0 carrier:0

collisions:0 txqueuelen:1000 RX bytes:8717797 (8.7 MB) TX bytes:591351 (591.3 KB)

2. Display information of all network interfaces.

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:1626 errors:0 dropped:0 overruns:0 frame:0 TX packets:1626 errors:0 dropped:0 overruns:0 carrier:0

collisions:0 txqueuelen:1000

RX bytes:124226 (124.2 KB) TX bytes:124226 (124.2 KB)

wlp3s0 Link encap:Ethernet HWaddr 3c:95:09:1b:1e:a8

inet addr:192.168.43.116 Bcast:192.168.43.255 Mask:255.255.255.0 inet6 addr: 2405:204:d203:9200:6039:f234:85e0:12c3/64 Scope:Global

inet6 addr: fe80::ce95:1173:8977:5742/64 Scope:Link

inet6 addr: 2405:204:d203:9200:cb55:bbf5:72ee:7dee/64 Scope:Global UP BROADCAST RUNNING MULTICAST MTU:1500 Metric:1

RX packets:7286 errors:0 dropped:0 overruns:0 frame:0 TX packets:4907 errors:0 dropped:0 overruns:0 carrier:0

collisions:0 txqueuelen:1000

RX bytes:8717797 (8.7 MB) TX bytes:591351 (591.3 KB)

3. View network settings of specific interface.

vyshnavi@vyshnavi-X541UJ:~\$ ifconfig wlp3s0 wlp3s0 Link encap:Ethernet HWaddr 3c:95:09:1b:1e:a8

inet addr:192.168.43.116 Bcast:192.168.43.255 Mask:255.255.255.0 inet6 addr: 2405:204:d203:9200:6039:f234:85e0:12c3/64 Scope:Global

inet6 addr: fe80::ce95:1173:8977:5742/64 Scope:Link

inet6 addr: 2405:204:d203:9200:cb55:bbf5:72ee:7dee/64 Scope:Global UP BROADCAST RUNNING MULTICAST MTU:1500 Metric:1

RX packets:7286 errors:0 dropped:0 overruns:0 frame:0 TX packets:4908 errors:0 dropped:0 overruns:0 carrier:0

collisions:0 txqueuelen:1000

RX bytes:8717797 (8.7 MB) TX bytes:591458 (591.4 KB)

4. How to enable an network interface.

vyshnavi@vyshnavi-X541UJ:~\$ sudo ifconfig wlp3s0 up [sudo] password for vyshnavi: vyshnavi@vyshnavi-X541UJ:~\$ ifconfig enp2s0f2 Link encap:Ethernet HWaddr 88:d7:f6:1a:d2:e8 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:1626 errors:0 dropped:0 overruns:0 frame:0 TX packets:1626 errors:0 dropped:0 overruns:0 carrier:0

collisions:0 txqueuelen:1000

RX bytes:124226 (124.2 KB) TX bytes:124226 (124.2 KB)

wlp3s0 Link encap:Ethernet HWaddr 3c:95:09:1b:1e:a8

inet addr:192.168.43.116 Bcast:192.168.43.255 Mask:255.255.255.0 inet6 addr: 2405:204:d203:9200:6039:f234:85e0:12c3/64 Scope:Global

inet6 addr: fe80::ce95:1173:8977:5742/64 Scope:Link

inet6 addr: 2405:204:d203:9200:cb55:bbf5:72ee:7dee/64 Scope:Global UP BROADCAST RUNNING MULTICAST MTU:1500 Metric:1

RX packets:7286 errors:0 dropped:0 overruns:0 frame:0 TX packets:4909 errors:0 dropped:0 overruns:0 carrier:0

collisions:0 txqueuelen:1000

5. How to disable network interface.

vyshnavi@vyshnavi-X541UJ:~\$ sudo ifconfig wlp3s0 down vyshnavi@vyshnavi-X541UJ:~\$ ifconfig enp2s0f2 Link encap:Ethernet HWaddr 88:d7:f6:1a:d2:e8

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:1626 errors:0 dropped:0 overruns:0 frame:0 TX packets:1626 errors:0 dropped:0 overruns:0 carrier:0

collisions:0 txqueuelen:1000

RX bytes:124226 (124.2 KB) TX bytes:124226 (124.2 KB)

6. How to assign an IP address to network interface.

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:1626 errors:0 dropped:0 overruns:0 frame:0 TX packets:1626 errors:0 dropped:0 overruns:0 carrier:0

collisions:0 txqueuelen:1000

RX bytes:124226 (124.2 KB) TX bytes:124226 (124.2 KB)

wlp3s0 Link encap:Ethernet HWaddr 3c:95:09:1b:1e:a8

inet addr:192.168.43.116 Bcast:192.168.43.255 Mask:255.255.255.0 UP BROADCAST RUNNING MULTICAST MTU:1500 Metric:1

RX packets:7288 errors:0 dropped:0 overruns:0 frame:0

TX packets:4912 errors:0 dropped:0 overruns:0 carrier:0

collisions:0 txqueuelen:1000

RX bytes:8718079 (8.7 MB) TX bytes:591980 (591.9 KB)

7. How to assign a netmask to network interface.

vyshnavi@vyshnavi-X541UJ:~\$ sudo ifconfig wlp3s0 netmask 255.255.255.224

vyshnavi@vyshnavi-X541UJ:~\$ ifconfig

enp2s0f2 Link encap:Ethernet HWaddr 88:d7:f6:1a:d2:e8

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:1628 errors:0 dropped:0 overruns:0 frame:0

TX packets:1628 errors:0 dropped:0 overruns:0 carrier:0

collisions:0 txqueuelen:1000

RX bytes:124410 (124.4 KB) TX bytes:124410 (124.4 KB)

wlp3s0 Link encap:Ethernet HWaddr 3c:95:09:1b:1e:a8

inet addr:192.168.43.116 Bcast:192.168.43.127 Mask:255.255.255.224 inet6 addr: 2405:204:d203:9200:6039:f234:85e0:12c3/64 Scope:Global

inet6 addr: fe80::5dab:3db0:e4b5:7983/64 Scope:Link

inet6 addr: 2405:204:d203:9200:cb55:bbf5:72ee:7dee/64 Scope:Global UP BROADCAST RUNNING MULTICAST MTU:1500 Metric:1

RX packets:7304 errors:0 dropped:0 overruns:0 frame:0 TX packets:4987 errors:0 dropped:0 overruns:0 carrier:0

collisions:0 txqueuelen:1000

RX bytes:8719571 (8.7 MB) TX bytes:604840 (604.8 KB)

8. How to assign a broadcast to network interface.

vyshnavi@vyshnavi-X541UJ:~\$ sudo ifconfig wlp3s0 broadcast 172.16.25.63 vyshnavi@vyshnavi-X541UJ:~\$ ifconfig

enp2s0f2 Link encap:Ethernet HWaddr 88:d7:f6:1a:d2:e8

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:1628 errors:0 dropped:0 overruns:0 frame:0 TX packets:1628 errors:0 dropped:0 overruns:0 carrier:0

collisions:0 txqueuelen:1000

RX bytes:124410 (124.4 KB) TX bytes:124410 (124.4 KB)

wlp3s0 Link encap:Ethernet HWaddr 3c:95:09:1b:1e:a8

inet addr:192.168.43.116 Bcast:172.16.25.63 Mask:255.255.255.224 inet6 addr: 2405:204:d203:9200:6039:f234:85e0:12c3/64 Scope:Global

inet6 addr: fe80::5dab:3db0:e4b5:7983/64 Scope:Link

inet6 addr: 2405:204:d203:9200:cb55:bbf5:72ee:7dee/64 Scope:Global UP BROADCAST RUNNING MULTICAST MTU:1500 Metric:1

RX packets:7304 errors:0 dropped:0 overruns:0 frame:0

TX packets:5000 errors:0 dropped:0 overruns:0 carrier:0

collisions:0 txqueuelen:1000

RX bytes:8719571 (8.7 MB) TX bytes:607382 (607.3 KB)

9. How to assign an IP, netmask and broadcast to network interface.

vyshnavi@vyshnavi-X541UJ:~\$ sudo ifconfig wlp3s0 netmask 255.255.255.224 broadcast 172.16.25.63 vyshnavi@vyshnavi-X541UJ:~\$ ifconfig enp2s0f2 Link encap:Ethernet HWaddr 88:d7:f6:1a:d2:e8 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:1635 errors:0 dropped:0 overruns:0 frame:0 TX packets:1635 errors:0 dropped:0 overruns:0 carrier:0

collisions:0 txqueuelen:1000

RX bytes:125014 (125.0 KB) TX bytes:125014 (125.0 KB)

wlp3s0 Link encap:Ethernet HWaddr 3c:95:09:1b:1e:a8

inet addr:192.168.43.116 Bcast:172.16.25.63 Mask:255.255.255.224 inet6 addr: 2405:204:d203:9200:6039:f234:85e0:12c3/64 Scope:Global

inet6 addr: fe80::5dab:3db0:e4b5:7983/64 Scope:Link

inet6 addr: 2405:204:d203:9200:cb55:bbf5:72ee:7dee/64 Scope:Global UP BROADCAST RUNNING MULTICAST MTU:1500 Metric:1

RX packets:7320 errors:0 dropped:0 overruns:0 frame:0 TX packets:5020 errors:0 dropped:0 overruns:0 carrier:0

collisions:0 txqueuelen:1000

RX bytes:8721226 (8.7 MB) TX bytes:609714 (609.7 KB)

10. How to change MTU for an network interface.

vyshnavi@vyshnavi-X541UJ:~\$ sudo ifconfig wlp3s0 mtu 1000 vyshnavi@vyshnavi-X541UJ:~\$ ifconfig enp2s0f2 Link encap:Ethernet HWaddr 88:d7:f6:1a:d2:e8

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:1635 errors:0 dropped:0 overruns:0 frame:0 TX packets:1635 errors:0 dropped:0 overruns:0 carrier:0

collisions:0 txqueuelen:1000

RX bytes:125014 (125.0 KB) TX bytes:125014 (125.0 KB)

wlp3s0 Link encap:Ethernet HWaddr 3c:95:09:1b:1e:a8

inet addr:192.168.43.116 Bcast:172.16.25.63 Mask:255.255.255.224

UP BROADCAST RUNNING MULTICAST MTU:1000 Metric:1

RX packets:7320 errors:0 dropped:0 overruns:0 frame:0

TX packets:5023 errors:0 dropped:0 overruns:0 carrier:0

collisions:0 txqueuelen:1000

RX bytes:8721226 (8.7 MB) TX bytes:610239 (610.2 KB)

11. How to enable promiscuous mode.

vyshnavi@vyshnavi-X541UJ:~\$ sudo ifconfig wlp3s0 promisc vyshnavi@vyshnavi-X541UJ:~\$ ifconfig

enp2s0f2 Link encap:Ethernet HWaddr 88:d7:f6:1a:d2:e8

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:1635 errors:0 dropped:0 overruns:0 frame:0

TX packets:1635 errors:0 dropped:0 overruns:0 carrier:0

collisions:0 txqueuelen:1000

RX bytes:125014 (125.0 KB) TX bytes:125014 (125.0 KB)

wlp3s0 Link encap:Ethernet HWaddr 3c:95:09:1b:1e:a8

inet addr:192.168.43.116 Bcast:172.16.25.63 Mask:255.255.255.224

UP BROADCAST RUNNING PROMISC MULTICAST MTU:1000 Metric:1

RX packets:7320 errors:0 dropped:0 overruns:0 frame:0 TX packets:5023 errors:0 dropped:0 overruns:0 carrier:0

collisions:0 txqueuelen:1000

RX bytes:8721226 (8.7 MB) TX bytes:610239 (610.2 KB)

12. How to disable promiscuous mode.

vyshnavi@vyshnavi-X541UJ:~\$ sudo ifconfig wlp3s0 -promisc vyshnavi@vyshnavi-X541UJ:~\$ ifconfig enp2s0f2 Link encap:Ethernet HWaddr 88:d7:f6:1a:d2:e8

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:1635 errors:0 dropped:0 overruns:0 frame:0

TX packets:1635 errors:0 dropped:0 overruns:0 carrier:0

collisions:0 txqueuelen:1000

RX bytes:125014 (125.0 KB) TX bytes:125014 (125.0 KB)

wlp3s0 Link encap:Ethernet HWaddr 3c:95:09:1b:1e:a8

inet addr:192.168.43.116 Bcast:172.16.25.63 Mask:255.255.255.224

UP BROADCAST RUNNING MULTICAST MTU:1000 Metric:1

RX packets:7320 errors:0 dropped:0 overruns:0 frame:0

TX packets:5023 errors:0 dropped:0 overruns:0 carrier:0

collisions:0 txqueuelen:1000

RX bytes:8721226 (8.7 MB) TX bytes:610239 (610.2 KB)

13. How to add new alias to network interface.

vyshnavi@vyshnavi-X541UJ:~\$ sudo ifconfig wlp3s0:0 172.16.25.127 vyshnavi@vyshnavi-X541UJ:~\$ ifconfig

enp2s0f2 Link encap:Ethernet HWaddr 88:d7:f6:1a:d2:e8
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:1635 errors:0 dropped:0 overruns:0 frame:0 TX packets:1635 errors:0 dropped:0 overruns:0 carrier:0

collisions:0 txqueuelen:1000

RX bytes:125014 (125.0 KB) TX bytes:125014 (125.0 KB)

wlp3s0 Link encap:Ethernet HWaddr 3c:95:09:1b:1e:a8
inet addr:192.168.43.116 Bcast:172.16.25.63 Mask:255.255.255.224
UP BROADCAST RUNNING MULTICAST MTU:1000 Metric:1
RX packets:7320 errors:0 dropped:0 overruns:0 frame:0
TX packets:5029 errors:0 dropped:0 overruns:0 carrier:0
collisions:0 txqueuelen:1000
RX bytes:8721226 (8.7 MB) TX bytes:611101 (611.1 KB)

wlp3s0:0 Link encap:Ethernet HWaddr 3c:95:09:1b:1e:a8 inet addr:172.16.25.127 Bcast:172.16.255.255 Mask:255.255.0.0 UP BROADCAST RUNNING MULTICAST MTU:1000 Metric:1

14.how to remove alias to network interface.

vyshnavi@vyshnavi-X541UJ:~\$ sudo ifconfig wlp3s0:0 down vyshnavi@vyshnavi-X541UJ:~\$ ifconfig enp2s0f2 Link encap:Ethernet HWaddr 88:d7:f6:1a:d2:e8 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:1635 errors:0 dropped:0 overruns:0 frame:0
     TX packets:1635 errors:0 dropped:0 overruns:0 carrier:0
     collisions:0 txqueuelen:1000
     RX bytes:125014 (125.0 KB) TX bytes:125014 (125.0 KB)
       Link encap:Ethernet HWaddr 3c:95:09:1b:1e:a8
wlp3s0
     inet addr:192.168.43.116 Bcast:172.16.25.63 Mask:255.255.255.224
     UP BROADCAST RUNNING MULTICAST MTU:1000 Metric:1
     RX packets:7320 errors:0 dropped:0 overruns:0 frame:0
     TX packets:5033 errors:0 dropped:0 overruns:0 carrier:0
     collisions:0 txqueuelen:1000
     RX bytes:8721226 (8.7 MB) TX bytes:611693 (611.6 KB)
15. How to change the MAC adress of network interface.
vyshnavi@vyshnavi-X541UJ:~$ sudo ifconfig wlp3s0 hw wired
AA:BB:CC:DD:EE:FF
[sudo] password for vyshnavi:
Usage:
 ifconfig [-a] [-v] [-s] <interface> [[<AF>] <address>]
 [add <address>[/<prefixlen>]]
 [del <address>[/<prefixlen>]]
 [[-]broadcast [<address>]] [[-]pointopoint [<address>]]
 [netmask <address>] [dstaddr <address>] [tunnel <address>]
 [outfill <NN>] [keepalive <NN>]
 [hw <HW> <address>] [metric <NN>] [mtu <NN>]
 [[-]trailers] [[-]arp] [[-]allmulti]
 [multicast] [[-]promisc]
 [mem_start <NN>] [io_addr <NN>] [irq <NN>] [media <type>]
 [txqueuelen <NN>]
 [[-]dynamic]
 [up|down] ...
 <HW>=Hardware Type.
```

List of possible hardware types:

```
loop (Local Loopback) slip (Serial Line IP) cslip (VJ Serial Line IP)
  slip6 (6-bit Serial Line IP) cslip6 (VJ 6-bit Serial Line IP) adaptive (Adaptive
Serial Line IP)
  ash (Ash) ether (Ethernet) ax25 (AMPR AX.25)
  netrom (AMPR NET/ROM) rose (AMPR ROSE) tunnel (IPIP Tunnel)
  ppp (Point-to-Point Protocol) hdlc ((Cisco)-HDLC) lapb (LAPB)
  arcnet (ARCnet) dlci (Frame Relay DLCI) frad (Frame Relay Access Device)
  sit (IPv6-in-IPv4) fddi (Fiber Distributed Data Interface) hippi (HIPPI)
  irda (IrLAP) ec (Econet) x25 (generic X.25)
  eui64 (Generic EUI-64)
 <AF>=Address family. Default: inet
List of possible address families:
  unix (UNIX Domain) inet (DARPA Internet) inet6 (IPv6)
  ax25 (AMPR AX.25) netrom (AMPR NET/ROM) rose (AMPR ROSE)
  ipx (Novell IPX) ddp (Appletalk DDP) ec (Econet)
  ash (Ash) x25 (CCITT X.25)
```

IP TABLES

vyshnavi@vyshnavi-X541UJ:~\$ sudo root add default gw [sudo] password for vyshnavi: sudo: root: command not found vyshnavi@vyshnavi-X541UJ:~\$ sudo iptables -L Chain INPUT (policy ACCEPT) target prot opt source destination

Chain FORWARD (policy ACCEPT) target prot opt source destination

Chain OUTPUT (policy ACCEPT)
target prot opt source destination

CONFIGURE DNS

vyshnavi@vyshnavi-X541UJ:~\$ sudo echo "nameserver 192.168.11.1" nameserver 192.168.11.1

vyshnavi@vyshnavi-X541UJ:~\$ sudo echo "nameserver 192.168.11.1" >>/etc/resolve.conf

bash: /etc/resolve.conf: Permission denied

