OUTPUT

default glen 1000

1. To identify the network configuration —(Arun Skali)-[~/Desktop] └─\$ ifconfig 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 88 bytes 6960 (6.7 KiB) RX errors 0 dropped 0 overruns 0 frame 0 TX packets 88 bytes 6960 (6.7 KiB) TX errors 0 dropped 0 overruns 0 carrier 0 collisions 0 wlan0: flags=4163<UP,BROADCAST,RUNNING,MULTICAST> mtu 1500 inet 192.168.1.35 netmask 255.255.255.0 broadcast 192.168.1.255 inet6 fe80::2763:c693:d46c:5a3a prefixlen 64 scopeid 0x20<link> inet6 2406:8800:82:906d:fb18:201e:e70e:e724 prefixlen 64 scopeid 0x0<global> ether 60:ff:9e:1d:4b:1a txqueuelen 1000 (Ethernet) RX packets 5368 bytes 4651321 (4.4 MiB) RX errors 0 dropped 0 overruns 0 frame 0 TX packets 3338 bytes 3087463 (2.9 MiB) TX errors 0 dropped 0 overruns 0 carrier 0 collisions 0 (Arun Skali)-[~/Desktop] ∟\$ ip a 1: lo: <LOOPBACK,UP,LOWER_UP> mtu 65536 qdisc noqueue state UNKNOWN group

link/loopback 00:00:00:00:00:00 brd 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 noprefixroute

valid_lft forever preferred_lft forever

2: wlan0: <BROADCAST,MULTICAST,UP,LOWER_UP> mtu 1500 qdisc noqueue state UP group default qlen 1000

link/ether 60:ff:9e:1d:4b:1a brd ff:ff:ff:ff:ff

inet 192.168.1.35/24 brd 192.168.1.255 scope global dynamic noprefixroute wlan0

valid_lft 86346sec preferred_lft 86346sec

inet6 2406:8800:82:906d:fb18:201e:e70e:e724/64 scope global dynamic noprefixroute

valid_lft 1468370sec preferred_lft 604370sec

inet6 fe80::2763:c693:d46c:5a3a/64 scope link noprefixroute

valid_lft forever preferred_lft forever

(Arun@kali)-[~/Desktop]

└─\$ ip addr

1: lo: <LOOPBACK,UP,LOWER_UP> mtu 65536 qdisc noqueue state UNKNOWN group default qlen 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 noprefixroute

valid_lft forever preferred_lft forever

2: wlan0: <BROADCAST,MULTICAST,UP,LOWER_UP> mtu 1500 qdisc noqueue state UP group default qlen 1000

link/ether 60:ff:9e:1d:4b:1a brd ff:ff:ff:ff:ff

inet 192.168.1.35/24 brd 192.168.1.255 scope global dynamic noprefixroute wlan0

valid_lft 86333sec preferred_lft 86333sec

inet6 2406:8800:82:906d:fb18:201e:e70e:e724/64 scope global dynamic noprefixroute

valid_lft 1468358sec preferred_lft 604358sec

inet6 fe80::2763:c693:d46c:5a3a/64 scope link noprefixroute

valid_lft forever preferred_lft forever

2. To test your network connectivity

(Arun Skali)-[~/Desktop]

\$\square\$ \quad \qquad \quad \

PING google.com (142.250.205.142) 56(84) bytes of data.

64 bytes from pnmaaa-aw-in-f14.1e100.net (142.250.205.142): icmp_seq=1 ttl=114 time=105 ms

64 bytes from pnmaaa-aw-in-f14.1e100.net (142.250.205.142): icmp_seq=2 ttl=114 time=126 ms

64 bytes from pnmaaa-aw-in-f14.1e100.net (142.250.205.142): icmp_seq=3 ttl=114 time=44.7 ms

64 bytes from pnmaaa-aw-in-f14.1e100.net (142.250.205.142): icmp_seq=4 ttl=114 time=66.6 ms

64 bytes from pnmaaa-aw-in-f14.1e100.net (142.250.205.142): icmp_seq=5 ttl=114 time=88.8 ms

64 bytes from pnmaaa-aw-in-f14.1e100.net (142.250.205.142): icmp_seq=6 ttl=114 time=111 ms

64 bytes from pnmaaa-aw-in-f14.1e100.net (142.250.205.142): icmp_seq=7 ttl=114 time=84.9 ms

64 bytes from pnmaaa-aw-in-f14.1e100.net (142.250.205.142): icmp_seq=8 ttl=114 time=52.1 ms

64 bytes from pnmaaa-aw-in-f14.1e100.net (142.250.205.142): icmp_seq=9 ttl=114 time=74.1 ms

64 bytes from pnmaaa-aw-in-f14.1e100.net (142.250.205.142): icmp_seq=10 ttl=114 time=96.8 ms

64 bytes from pnmaaa-aw-in-f14.1e100.net (142.250.205.142): icmp_seq=11 ttl=114 time=79.0 ms

64 bytes from pnmaaa-aw-in-f14.1e100.net (142.250.205.142): icmp_seq=12 ttl=114 time=24.0 ms

64 bytes from pnmaaa-aw-in-f14.1e100.net (142.250.205.142): icmp_seq=13 ttl=114 time=61.7 ms

64 bytes from pnmaaa-aw-in-f14.1e100.net (142.250.205.142): icmp_seq=14 ttl=114 time=82.6 ms

64 bytes from pnmaaa-aw-in-f14.1e100.net (142.250.205.142): icmp_seq=15 ttl=114 time=21.1 ms

64 bytes from pnmaaa-aw-in-f14.1e100.net (142.250.205.142): icmp_seq=16 ttl=114 time=93.7 ms

64 bytes from pnmaaa-aw-in-f14.1e100.net (142.250.205.142): icmp_seq=17 ttl=114 time=46.6 ms

^C

--- google.com ping statistics ---

17 packets transmitted, 17 received, 0% packet loss, time 16032ms rtt min/avg/max/mdev = 21.082/74.016/125.588/28.618 ms

(Arun Skali)-[~/Desktop]

\$\square\$ ping localhost

PING localhost (::1) 56 data bytes

64 bytes from localhost (::1): icmp_seq=1 ttl=64 time=0.036 ms

64 bytes from localhost (::1): icmp_seq=2 ttl=64 time=0.078 ms

64 bytes from localhost (::1): icmp_seq=3 ttl=64 time=0.070 ms

64 bytes from localhost (::1): icmp_seq=4 ttl=64 time=0.095 ms

64 bytes from localhost (::1): icmp_seq=5 ttl=64 time=0.078 ms

64 bytes from localhost (::1): icmp_seq=6 ttl=64 time=0.047 ms

64 bytes from localhost (::1): icmp_seq=7 ttl=64 time=0.082 ms

64 bytes from localhost (::1): icmp_seq=8 ttl=64 time=0.096 ms

64 bytes from localhost (::1): icmp_seq=9 ttl=64 time=0.073 ms

64 bytes from localhost (::1): icmp_seq=10 ttl=64 time=0.083 ms
64 bytes from localhost (::1): icmp_seq=11 ttl=64 time=0.097 ms
64 bytes from localhost (::1): icmp_seq=12 ttl=64 time=0.073 ms
64 bytes from localhost (::1): icmp_seq=13 ttl=64 time=0.058 ms
64 bytes from localhost (::1): icmp_seq=14 ttl=64 time=0.074 ms
64 bytes from localhost (::1): icmp_seq=15 ttl=64 time=0.033 ms
64 bytes from localhost (::1): icmp_seq=16 ttl=64 time=0.036 ms
64 bytes from localhost (::1): icmp_seq=17 ttl=64 time=0.076 ms
64 bytes from localhost (::1): icmp_seq=18 ttl=64 time=0.098 ms
64 bytes from localhost (::1): icmp_seq=18 ttl=64 time=0.098 ms

--- localhost ping statistics ---

19 packets transmitted, 19 received, 0% packet loss, time 18418ms rtt min/avg/max/mdev = 0.033/0.071/0.098/0.020 ms

3. To view active ports

└─\$ netstat -a

Active Internet connections (servers and established)

Proto I	Recv-Q	Send-Q Local Address	Foreign Address	State
tcp	0	0 192.168.1.35:48228	93.243.107.34.bc.:http	ps ESTABLISHED
tcp6	0	0 2406:8800:82:906d:50772	sa-in-x54.1e100.n:http	s ESTABLISHED
tcp6	0	0 2406:8800:82:906d:38808	maa03s39-in-x04.1:htt	ps ESTABLISHED
tcp6	0	0 2406:8800:82:906d:54762	maa05s12-in-x0a.1:htt	ps ESTABLISHED
tcp6	0	0 2406:8800:82:906d:56818	pnmaaa-an-in-x03.1:ht	tp ESTABLISHED
tcp6	0	0 2406:8800:82:906d:40868	lcmaaa-au-in-x05.:http	s ESTABLISHED
tcp6	0	0 2406:8800:82:906d:40628	lcmaaa-au-in-x03.:http	s ESTABLISHED
tcp6	0	0 2406:8800:82:906d:55768	pnmaaa-an-in-x03.1:ht	tp ESTABLISHED
tcp6	0	0 2406:8800:82:906d:40292	maa03s43-in-x0e.1:htt	ps ESTABLISHED

```
0 2406:8800:82:906d:34850 maa03s41-in-x03.1:https TIME_WAIT
tcp6
      0
udp
      0
            0 192.168.1.35:bootpc
                                     192.168.1.1:bootps
                                                        ESTABLISHED
udp6
            0 [::]:40492
                               [::]:*
      0
udp6
      0
            0 [::]:49252
                               [::]:*
udp6
            0 fe80::276:dhcpv6-client [::]:*
udp6
            0 [::]:41611
                               [::]:*
     0
                                           7
raw6 0
            0 [::]:ipv6-icmp
                               [::]:*
Active UNIX domain sockets (servers and established)
Proto RefCnt Flags
                  Type State
                                     I-Node Path
unix 3
                  STREAM
                               CONNECTED
                                                  2708
            []
      /run/dbus/system_bus_socket
unix 3
            []
                  STREAM
                               CONNECTED
                                                  2632
                                     LISTENING
unix 2
            [ACC]
                        STREAM
                                                 11665 /tmp/.ICE-unix/1083
unix 3
            []
                  DGRAM
                               CONNECTED
                                                  12607
unix 3
                               CONNECTED
            []
                  STREAM
                                                  10957
unix 3
                               CONNECTED
                  STREAM
                                                  2707
            []
      /run/dbus/system_bus_socket
unix 3
                               CONNECTED
                                                  319
            []
                  STREAM
unix 3
            []
                  DGRAM
                               CONNECTED
                                                  7571
unix 3
                               CONNECTED
            []
                  STREAM
                                                  11617
      /run/systemd/journal/stdout
                        STREAM
unix 2
            [ACC]
                                     LISTENING 750
                                                        /tmp/ssh-
skiEi4olHZVm/agent.1180
unix 3
            []
                  DGRAM
                               CONNECTED
                                                  12606
                               CONNECTED
unix 3
            STREAM
                                                  2602 /run/user/1000/bus
unix 2
            [ACC]
                         STREAM
                                     LISTENING
                                                 15878 /run/user/1000/gcr/ssh
unix 3
            []
                  STREAM
                               CONNECTED
                                                  20673
unix 3
            []
                               CONNECTED
                                                  3978 /run/user/1000/bus
                  STREAM
unix 3
            []
                               CONNECTED
                                                  10805
                  STREAM
```

unix 3 spi/bus_0	[]	STREAM	CONNECTED	847	/run/user/1000/at-		
unix 3	[]	STREAM	CONNECTED	6883			
unix 3	[]	STREAM	CONNECTED	16040			
unix 2 /run/us	[ACC ser/1000	15880					
unix 2 /run/us	[ACC ser/1000	STRE.	AM LISTENING agent.browser	15881			
unix 3	[]	SEQPACKET	CONNECTED	25163			
unix 3	[]	STREAM	CONNECTED	10808			
unix 3	[]	STREAM	CONNECTED	9663	@/tmp/.X11-unix/X0		
unix 3	[]	STREAM	CONNECTED	748	/run/user/1000/bus		
unix 3	[]	STREAM	CONNECTED	13776			
unix 3	[]	STREAM	CONNECTED	665			
unix 3	[]	STREAM	CONNECTED	12847	/run/user/1000/bus		
unix 3	[]	STREAM	CONNECTED	13807			
unix 2 spi/bus_0	[ACC	STRE.	AM LISTENING	739	/run/user/1000/at-		
unix 3 /run/systemd/j	[] journal/s	STREAM stdout	CONNECTED	12675			
unix 3	[]	STREAM	CONNECTED	12555			
unix 3	[]	STREAM	CONNECTED	10906			
unix 3	[]	STREAM	CONNECTED	16039			
unix 3	[]	STREAM	CONNECTED	10917			
unix 3	[]	DGRAM	CONNECTED	7575			
unix 3	[]	STREAM	CONNECTED	6955			
unix 3	[]	STREAM	CONNECTED	11671	@/tmp/.X11-unix/X0		
unix 3	[]	STREAM	CONNECTED	822			
/run/systemd/journal/stdout							
unix 3	[]	STREAM	CONNECTED	12709			
unix 3	[]	STREAM	CONNECTED	24691			

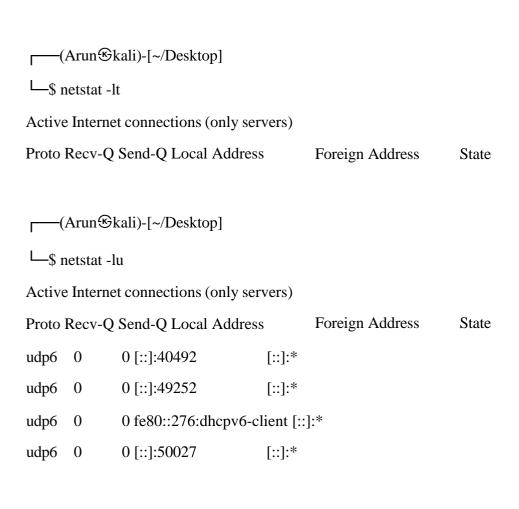
[]2717 /run/user/1000/bus unix 3 STREAM CONNECTED unix 3 []STREAM CONNECTED 741 —(Arun⊕kali)-[~/Desktop] ∟\$ netstat -at Active Internet connections (servers and established) Proto Recv-Q Send-Q Local Address Foreign Address State tcp 0 0 192.168.1.35:48228 93.243.107.34.bc.:https ESTABLISHED 0 2406:8800:82:906d:49224 pnmaaa-as-in-x03.:https ESTABLISHED tcp6 0 2406:8800:82:906d:55526 maa05s20-in-x0a.1:https ESTABLISHED tcp6 0 tcp6 0 2406:8800:82:906d:38898 maa05s05-in-x03.1:https TIME WAIT 0 tcp6 0 2406:8800:82:906d:37824 pnmaaa-aq-in-x0e.:https ESTABLISHED 0 (Arun&kali)-[~/Desktop] └─\$ netstat -au Active Internet connections (servers and established) Proto Recv-Q Send-Q Local Address Foreign Address State 0 192.168.1.35:bootpc udp 0 192.168.1.1:bootps ESTABLISHED udp6 0 0 [::]:40492 [::]:* udp6 0 0 [::]:49252 [::]:* udp6 0 0 fe80::276:dhcpv6-client [::]:* udp6 0 0 [::]:50027 [::]:* —(Arun&kali)-[~/Desktop] \$\sum_\\$\netstat -1 Active Internet connections (only servers) Proto Recv-Q Send-Q Local Address Foreign Address State udp6 0 0 [::]:48209 [::]:*

[::]:*

udp6 0

0 [::]:40492

```
udp6 0
            0 [::]:49252
                               [::]:*
            0 fe80::276:dhcpv6-client [::]:*
udp6 0
raw6 0
            0 [::]:ipv6-icmp
                               [::]:*
                                            7
Active UNIX domain sockets (only servers)
Proto RefCnt Flags
                  Type State
                                     I-Node Path
unix 2
                                     LISTENING 485
            [ACC]
                         STREAM
                                                        /tmp/.X11-unix/X0
unix 2
            [ACC]
                         STREAM
                                     LISTENING 11665 /tmp/.ICE-unix/1083
unix 2
            [ACC]
                         STREAM
                                     LISTENING 750
                                                        /tmp/ssh-
skiEi4olHZVm/agent.1180
unix 2
            [ACC]
                                     LISTENING 7576
                                                        /run/systemd/private
                         STREAM
unix 2
            [ACC]
                         STREAM
                                     LISTENING 7577
      /run/systemd/userdb/io.systemd.DynamicUser
unix 2
            [ACC]
                         STREAM
                                     LISTENING 7578
      /run/systemd/io.systemd.ManagedOOM
unix 2
            [ACC]
                         STREAM
                                     LISTENING 7592
      /run/systemd/io.systemd.Credentials
unix 2
            [ACC]
                         STREAM
                                     LISTENING 7595
      /run/systemd/journal/stdout
unix 2
                         SEQPACKET LISTENING 7596 /run/udev/control
            [ACC]
                                     LISTENING 10746
unix 2
            [ACC]
                         STREAM
      /run/user/1000/systemd/private
unix 2
            [ACC]
                         STREAM
                                     LISTENING 10757 /run/user/1000/bus
unix 2
                                     LISTENING 15877
            [ACC]
                         STREAM
      /run/user/1000/gnupg/S.dirmngr
unix 2
            [ACC]
                         STREAM
                                     LISTENING 15878 /run/user/1000/gcr/ssh
unix 2
            [ACC]
                         STREAM
                                     LISTENING 15880
      /run/user/1000/keyring/control
unix 2
            [ACC]
                         STREAM
                                     LISTENING 15881
      /run/user/1000/gnupg/S.gpg-agent.browser
unix 2
                         STREAM
                                     LISTENING 15882
            [ACC]
      /run/user/1000/gnupg/S.gpg-agent.extra
```



4. To find hardware/MAC address

[—(Arun&kali)-[~/Desktop]

5. View network configuration file

├──(Arun�kali)-[~/Desktop] └─\$ ls -a

. .. a chrome network 'New Folder' 'penetration testing' unnamed.jpg