## **PRACTICAL-2**

## **AIM: NETWORKING COMMANDS**

- 1. What are networking commands?
  - The **commands** (such as tracert, traceroute, ping, arp, netstat, nbstat, NetBIOS, ipconfig, winipcfg and nslookup) and their arguments, options and parameters used to troubleshoot the computer **network**.
- 2. Why we require networking commands?
  - For trouble shooting and reassuring network activity
- 3. Where to perform those commands?
  - On compiler for windows cmd and for linux, ubantu or cent-os terminal

```
Command Prompt
ticrosoft Windows [Version 10.0.18362.535]
(c) 2019 Microsoft Corporation. All rights reserved.

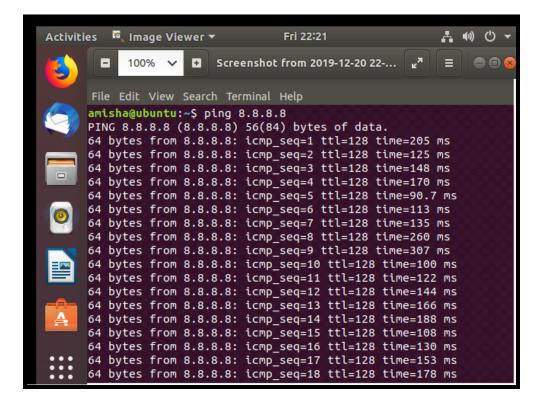
::\Users\admin>ss
'ss' is not recognized as an internal or external command,
perable program or batch file.

::\Users\admin>ss -ta
'ss' is not recognized as an internal or external command,
perable program or batch file.

::\Users\admin>ping 8.8.8.8

inging 8.8.8.8 with 32 bytes of data:
keply from 8.8.8.8: bytes=32 time=259ms TTL=53
keply from 8.8.8.8: bytes=32 time=175ms TTL=53
keply from 8.8.8.8: bytes=32 time=91ms TTL=53
keply from 8.8.8.8: bytes=32 time=109ms TTL=53
ing statistics for 8.8.8.8:
Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
ipproximate round trip times in milli-seconds:
    Minimum = 91ms, Maximum = 259ms, Average = 158ms

::\Users\admin>
```



- 4. What is default gateway and subnet mask?
  - **Default Gateway** is IP of your Router. In simple words, 192.168.0.1 and **Subnet** mask will be automatically deduced by operating system. 255.255.255.0.
- 5. Why we need default gateway?
  - A default gateway makes it possible for devices in one <u>network</u> to communicate with devices in another network. If a computer, for example, requests a web page, the request goes through the default gateway before exiting the <u>local network</u> to reach the internet. Think of a default gateway as an intermediate device between the local network and the internet. The default gateway transfers internal data to the internet and back again.
- 6. Types of default gateways
  - Broadband-Routers
  - Dial-up
  - Network-adaptors

#### SCENARIOS AND LIST OF COMMANDS

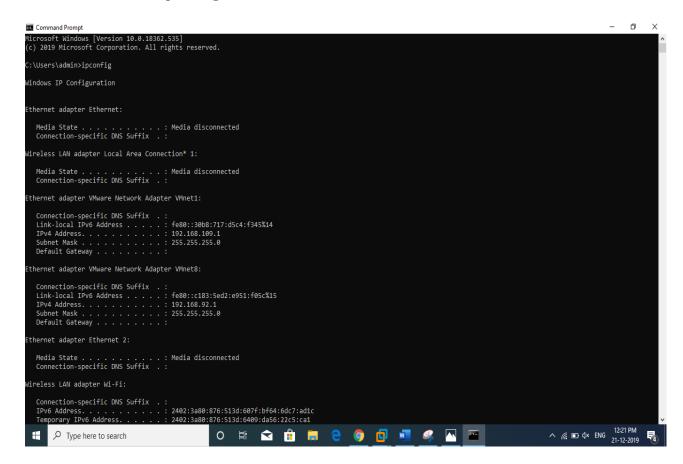
# CASE 1:

Consider a situation, where you need to set a default gateway then how you will find your default gateway ip address?

For windows: ipconfig

For linux: netstat and iproute

# CMD OUTPUT OF :ipconfig



- 1. Ethernet adapter Ethernet: enables a computer to access an **Ethernet network** (**LAN**). Currently it is not connected so, media disconnected is showing.
- 2. Wireless LAN adapter is also not connected.
- 3. and 4. for VMware: let us focus on 1st DNS suffix

### DOMAIN NAME SERVER.

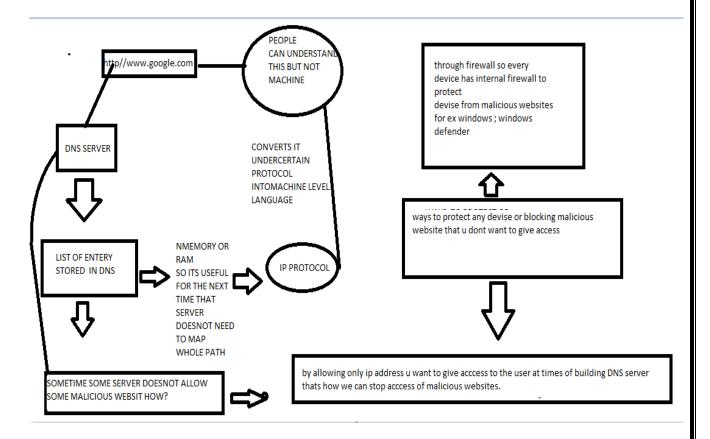
For-example <a href="https://www.google.com">https://www.google.com</a>

When a user request it this URL is: A directory (list) of domain names and translate them to Internet Protocol (IP) addresses. This is necessary because, although domain names are easy for people to remember, computers or machines, access websites based on IP addresses.

Scenario1: you don't want to give access to students particular to some websites but how to do?

# Scenario 2: How DNS server exactly works?

### DNS SERVER:



4. Wifi for ipconfig that wifi adapter currently wifi is on so, Here it indicates details of wifi currently XYZ phone is having this ip and ipv4 and subnet mask it is used to get default gateway information in this case xyz is default gateway

5. ipconfig all: to get all details of ipv4 and 6

```
GE:
ipconfig [/allcompartments] [/? | /all |
/renew [adapter] | /release [adapter] |
/renew6 [adapter] | /release6 [adapter] |
/flushdns | /displaydns | /registerdns |
/showclassid adapter |
/setclassid adapter [classid] |
/showclassid6 adapter |
/setclassid6 adapter [classid] ]
  here
adapter
                                                                 Connection name
                                                               (wildcard characters * and ? allowed, see examples)
                                                               Display this help message
Display full configuration information.
Release the IPv4 address for the specified adapter.
Release the IPv6 address for the specified adapter.
Renew the IPv6 address for the specified adapter.
Renew the IPv6 address for the specified adapter.
Purges the DNS Resolver cache.
Refreshes all DHCP leases and re-registers DNS names
Display the contents of the DNS Resolver Cache.
Displays all the dhcp class IDs allowed for adapter.
Modifies the dhcp class id.
Displays all the IPv6 DHCP class IDs allowed for adapter.
Modifies the IPv6 DHCP class id.
          Options:
                  /?
/all
/release
/release6
                  /renew
/renew6
                   /flushdns
/registerdns
                  /registeruns
/displaydns
/showclassid
/setclassid
/showclassid6
/setclassid6
The default is to display only the IP address, subnet mask and
default gateway for each adapter bound to TCP/IP.
For Release and Renew, if no adapter name is specified, then the IP address
leases for all adapters bound to TCP/IP will be released or renewed.
 For Setclassid and Setclassid6, if no ClassId is specified, then the ClassId is removed.
  xamples:
         iples:
> ipconfig
> ipconfig /all
> ipconfig /renew
> ipconfig /renew EL*
                                                                                                   ... Show detailed information ... renew all adapters
                                                                                                    ... renew any connection that has its name starting with EL
```

Scenario 3: consider a situation where I want to change or flush my old DHCP ip so for ipv4: release

Ipv6: release6

And then renew

```
C:\Users\admin>ipconfig/release
Windows IP Configuration
No operation can be performed on Ethernet while it has its media disconnected.
No operation can be performed on Local Area Connection* 1 while it has its media disconnected.
No operation can be performed on Ethernet 2 while it has its media disconnected.
Ethernet adapter Ethernet:
   Media State . . . . . . . . . : Media disconnected Connection-specific DNS Suffix . :
Wireless LAN adapter Local Area Connection* 1:
   Media State . . . . . . . . . : Media disconnected Connection-specific DNS Suffix . :
Ethernet adapter VMware Network Adapter VMnet1:
   Connection-specific DNS Suffix .:
   Link-local IPv6 Address . . . . : fe80::30b8:717:d5c4:f345%14
   Default Gateway . . . . . . . :
Ethernet adapter VMware Network Adapter VMnet8:
   Connection-specific DNS Suffix .:
   Link-local IPv6 Address . . . . : fe80::c183:5ed2:e951:f05c%15
   Default Gateway . . . . . . . :
Ethernet adapter Ethernet 2:
   meula State . . . . . . . . : Media disconnected Connection-specific DNS Suffix . :
Wireless LAN adapter Wi-Fi:
  Connection-specific DNS Suffix .:
Wireless LAN adapter Wi-Fi:
   Connection-specific DNS Suffix .:
   IPv6 Address. . . . . . . . : 2402:3a80:876:513d:607f:bf64:6dc7:ad1c
Temporary IPv6 Address. . . . : 2402:3a80:876:513d:6409:da56:22c5:ca1
Link-local IPv6 Address . . . : fe80::607f:bf64:6dc7:ad1c%21
Default Gateway . . . . : fe80::22a6:cff:fe94:cbb2%21
```

```
C:\Users\admin>ipconfig/renew
Windows IP Configuration
No operation can be performed on Ethernet while it has its media disconnected.
No operation can be performed on Local Area Connection* 1 while it has its media disconnected.
No operation can be performed on Ethernet 2 while it has its media disconnected.
Ethernet adapter Ethernet:
  Media State . . . . . . . . . : Media disconnected Connection-specific DNS Suffix . :
Wireless LAN adapter Local Area Connection* 1:
   Media State . . . . . . . . : Media disconnected Connection-specific DNS Suffix . :
Ethernet adapter VMware Network Adapter VMnet1:
   Connection-specific DNS Suffix .:
   Link-local IPv6 Address . . . . : fe80::30b8:717:d5c4:f345%14
   IPv4 Address. . . . . . . . . . . . 192.168.109.1
   Subnet Mask . . . . . . . . . : 255.255.255.0
   Default Gateway . . . . . . .
Ethernet adapter VMware Network Adapter VMnet8:
   Connection-specific DNS Suffix .:
   Link-local IPv6 Address . . . . : fe80::c183:5ed2:e951:f05c%15
   IPv4 Address. . . . . . . . : 192.168.92.1
Subnet Mask . . . . . . : 255.255.255.0
   Default Gateway . . . . . . . :
Ethernet adapter Ethernet 2:
Wireless LAN adapter Local Area Connection* 1:
   Media State . . . . . . . . . : Media disconnected Connection-specific DNS Suffix . :
Ethernet adapter VMware Network Adapter VMnet1:
   Connection-specific DNS Suffix .:
   Link-local IPv6 Address . . . . : fe80::30b8:717:d5c4:f345%14
IPv4 Address . . . . . . : 192.168.109.1
   Default Gateway . . . . . .
Ethernet adapter VMware Network Adapter VMnet8:
   Connection-specific DNS Suffix .:
   Link-local IPv6 Address . . . . : fe80::c183:5ed2:e951:f05c%15
   IPv4 Address. . . . . . . . . . . . . 192.168.92.1
   Subnet Mask . . . . . . . . . : 255.255.255.0
   Default Gateway . . . . . . . . :
Ethernet adapter Ethernet 2:
                                   . . : Media disconnected
   Media State . .
  Wireless LAN adapter Wi-Fi:
   Connection-specific DNS Suffix .:
   IPv6 Address. . . . . . . . . : 2402:3a80:876:513d:607f:bf64:6dc7:ad1c
  Temporary IPv6 Address. . . . : 2402:3a80:876:513d:6409:da56:22c5:ca1 Link-local IPv6 Address . . . . : fe80::607f:bf64:6dc7:ad1c%21
  IPv4 Address. . . . . . . . : 192.168.43.235
Subnet Mask . . . . . . . : 255.255.25.0
Default Gateway . . . . . : fe80::22a6:cff:fe94:cbb2%21
                                         192.168.43.1
```

6. Consider a scenario when you want to cross check whether your request is being sent properly or not whether anybody is not accessing your data.

# Ping:

To check whether I am connected to any website or not?

**Tracert** 

For ex: google.com

Ping google.com

Ping 8.8.8.8

Ping 4.4.4.4

```
C:\Users\admin>ping 8.8.8.8

Pinging 8.8.8.8 with 32 bytes of data:
Reply from 8.8.8.8: bytes=32 time=615ms TTL=53
Reply from 8.8.8.8: bytes=32 time=112ms TTL=53
Reply from 8.8.8.8: bytes=32 time=120ms TTL=53
Reply from 8.8.8.8: bytes=32 time=129ms TTL=53

Ping statistics for 8.8.8.8:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
    Minimum = 112ms, Maximum = 615ms, Average = 244ms

C:\Users\admin>
```

Yes, all packets are sent perfectly to transmitter and I am receiving all

### **Tracert command**

for example: a client comes to me that my internet connectivity is not up to the mark how would I find?

Fire this command check the particular route and find out that whether a request is received by server, which route and at which point it has been showing dilemmas or whether switch/router/firewall/ISP/devices. where is the problem occurring?

```
::\Users\admin>tracert 8.8.8.8
Tracing route to dns.google [8.8.8.8]
over a maximum of 30 hops:
               56 ms
                         3 ms 192.168.43.1
     278 ms
              201 ms
                        98 ms 192.168.1.6
                               Request timed out.
                               Request timed out.
 5
                             Request timed out.
 6
                               Request timed out.
                               Request timed out.
                               Request timed out.
     239 ms 201 ms 98 ms dns.google [8.8.8.8]
 9
Trace complete.
C:\Users\admin>
```

It shows that request is going out from phone (wifi) to switch then lost somewhere and finally to the dns google server

Netstat 8.8.8: it is showing that these many active connections are in between to show connections are established there so

```
::\Users\admin>netstat 8.8.8.8
Active Connections
  Proto Local Address
                                         Foreign Address
                                        DESKTOP-DD143JG:54237
DESKTOP-DD143JG:49671
          127.0.0.1:443
127.0.0.1:49670
                                                                       ESTABLISHED
  ТСР
                                                                       ESTABLISHED
          127.0.0.1:49671
                                         DESKTOP-DD143JG:49670
                                                                        ESTABLISHED
                                                                       ESTABLISHED ESTABLISHED
          127.0.0.1:49672
                                         DESKTOP-DD143JG:49673
                                         DESKTOP-DD143JG:49672
          127.0.0.1:49673
  TCP
                                         DESKTOP-DD143JG:49675
                                                                        ESTABLISHED
  TCP
          127.0.0.1:49674
           127.0.0.1:49675
                                         DESKTOP-DD143JG:49674
                                                                        ESTABLISHED
  TCP
          127.0.0.1:49676
                                         DESKTOP-DD143JG:49677
                                                                       ESTABLISHED
                                         DESKTOP-DD143JG:49676
                                                                       ESTABLISHED
          127.0.0.1:49677
           127.0.0.1:53387
                                         DESKTOP-DD143JG:53388
                                                                        ESTABLISHED
           127.0.0.1:53388
                                         DESKTOP-DD143JG:53387
                                                                        ESTABLISHED
                                         DESKTOP-DD143JG:https
          127.0.0.1:54235
  TCP
                                                                        TIME WATT
  ТСР
           127.0.0.1:54237
                                         DESKTOP-DD143JG:https
                                                                       ESTABLISHED
           [::1]:8307
[::1]:8307
                                         DESKTOP-DD143JG:54236
                                                                        CLOSE_WAIT
                                         DESKTOP-DD143JG:54238
                                                                       ESTABLISHED
           [::1]:53367
[::1]:53368
[::1]:54236
                                         DESKTOP-DD143JG:53368
  TCP
                                                                       ESTABLISHED
  TCP
                                         DESKTOP-DD143JG:53367
                                                                       ESTABLISHED
                                                                       FIN_WAIT_2
ESTABLISHED
                                         DESKTOP-DD143JG:8307
            ::1]:54238
                                         DESKTOP-DD143JG:8307
                                                                       [64:ff9b::2877:d3cb]:https ESTABLISHED
g2600-1417-0075-0591-0000-0000-0000-02ef:https
[2402:3a80:c000:24::685e:1358]:https CLOSE_WAIT
sc-in-xbc:https ESTABLISHED
           [2402:3a80:876:513d:6409:da56:22c5:ca1]:53324
[2402:3a80:876:513d:6409:da56:22c5:ca1]:53386
  TCP
  TCP
           [2402:3a80:876:513d:6409:da56:22c5:ca1]:53932
[2402:3a80:876:513d:6409:da56:22c5:ca1]:54227
[2402:3a80:876:513d:6409:da56:22c5:ca1]:54240
  TCP
                                                                        bom07s11-in-x0e:https ESTABLISHED
            2402:3a80:876:513d:6409:da56:22c5:ca1]:54241
```

### ARP command

#### **ARP** - Address Resolution Protocol

Short for Address Resolution Protocol, a network layer protocol **used to** convert an IP address into a physical address (called a DLC address), such as an Ethernet address. A host wishing to obtain a physical address broadcasts an **ARP** request onto the TCP/IP network.

Consider a situation where ARP address that how many entries has been saved at ARP address

```
Example:
 > arp -s 157.55.85.212 00-aa-00-62-c6-09
                                             .... Adds a static entry.
 > arp -a
                                             .... Displays the arp table.
C:\Users\admin>arp -a
Interface: 192.168.109.1 --- 0xe
 Internet Address
                       Physical Address
                                             Type
                       ff-ff-ff-ff-ff
  192.168.109.255
                                             static
                       01-00-5e-00-00-16
  224.0.0.22
                                             static
                       01-00-5e-00-00-fb
  224.0.0.251
                                             static
                       01-00-5e-00-00-fc
                                             static
  224.0.0.252
  239.255.255.250
                       01-00-5e-7f-ff-fa
                                             static
                       ff-ff-ff-ff-ff
 255.255.255.255
                                             static
Interface: 192.168.92.1 --- 0xf
 Internet Address
                       Physical Address
                                             Type
                       ff-ff-ff-ff-ff
  192.168.92.255
                                             static
  224.0.0.22
                       01-00-5e-00-00-16
                                             static
                                             static
  224.0.0.251
                       01-00-5e-00-00-fb
  224.0.0.252
                       01-00-5e-00-00-fc
                                             static
  239.255.255.250
                                             static
                       01-00-5e-7f-ff-fa
  255.255.255.255
                       ff-ff-ff-ff-ff
                                             static
Interface: 192.168.43.235 --- 0x15
 Internet Address Physical Address
                                             Type
 192.168.43.1
                       20-a6-0c-94-cb-b2
                                             dynamic
 192.168.43.255
                       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
                                             static
```

Arp -a so these many entries are there save already if I will remove this than it will require more time as no catch memory is stored so it need to map ip address again

Looking it we come to know one is dynamic ip address that is of wifi being connected to the devise

# ifconfig



It shows that how many packets are being sent and how many packets are being received:

TX: TRANSMITTED: 1777 bytes

RX: RECEIVED: 1777 bytes

Interface configuration:

Consider a situation where your internet connectivity is having problem and you want to see whether all transmitted packets have been received or lost somewhere else.

Whether my ISP is better or on upto which standard so this command will help that how efficient INTERNET SERVICE PROVIDER

```
^C
amisha@ubuntu:~$ traceroute 8.8.8.8
traceroute to 8.8.8.8 (8.8.8.8), 64 hops max
      192.168.92.2 0.124ms 0.292ms 0.233ms
 2
  3
 4
  5
 б
 9
 10
11
12
13
14
 15
16
 17
```

For linux:

## ss command:

It is similar to netstat utility used to display **network** connections for the TCP/UDP, **network** protocol statistics, interface statistics, routing tables, masquerade connections, multicast memberships etc. netstat program is obsolete now and its replacement is **ss**.

TCP: consider a situation where we want to acknowledge a connection-oriented request

UDP: without acknowledgement

```
mishagubuntu:-5 traceroute 8.8.8°C
ntshaqubuntu:-$ ss
                                     Send-0
                       Recy-0
                                                                                Local Address:Port
                                                                                                                         Peer Address:Port
etid
         State
str
          ESTAB
                                                                           /run/user/1000/bus 58553
                                                                                                                                     * 58552
                                                                                                                                     + 37270
str
                                                             /var/run/dbus/system_bus_socket 37271
         ESTAB
                                                                                                                                     * 37176
str
         ESTAB
                       8
                                     8
                                                                                             * 37169
                                                                                             * $4331
                                                                                                                                     + 54332
str
          ESTA8
str
         ESTAB
                                                                         g/tmp/dbus-yvYbFbn1 53313
                                                           /run/systemd/journal/stdout 36720
#/dbus-vfs-daemon/socket-b9WDuNls 57638
str
          ESTAB
                                                                                                                                     * 36715
                                                                                                                                     * 57637
ste
          ESTAB
                                                                                            + 55738
                                                                                                                                     + 55739
str
         ESTAB
                       6
                                                                                            * 55139
         ESTAB
                                                                                                                                     * 55148
str
                                                                                             * 58200
                                                                                                                                     * 58281
str
         ESTA8
itr
         ESTAB.
                                                                       g/tmp/.X11-unix/X1824 37442
                                                                                                                                     * 37441
                       0
                                                                  /run/user/121/pulse/native 36783
                                                                                                                                     * 36782
str
          ESTA8
                                                                                                                                     * 31513
                                                                 /run/systemd/journel/stdout 31515
str
         ESTAB
                       0
                                                                                             * 54287
                                                                                                                                     * 54288
str
         ESTAB
                       8
                                                                         @/tmp/dbus-yvVbFbn1 53311
str
          ESTAB
                                                                                                                                     * 188612
                                                                 /run/systemd/journal/stdout 188613
str
          ESTAB.
str
          EST/A
                                                                       @/tmp/dbus-82fjI63el3 57649
                                                                                                                                     * 57648
                                                                                                                                     * 55711
str
          ESTAB
                                                             /var/run/dbus/system_bus_socket 55815
                                                                                                                                     * 55014
str
          ESTAB
```

#### Ss -ta

```
ımtsha@ubuntu:~Ş ss -ta
tate Recv-Q Send-Q
                    Local Address:Port
                                            Peer Address:Port
                    127.0.0.53%lo:domain
                                                 0.0.0.0:*
ISTEN0
            128
            5
ISTEN0
                        127.0.0.1:ipp
                                                 0.0.0.0:*
ISTEN0
            5
                             [::1]:ipp
                                                    [::]:*
misha@ubuntu:~$
```

### ss-ua

```
amisha@ubuntu:~$ ss -ua
State Recv-Q Send-Q Local Address:Port
                                              Peer Address:Port
JNCONN0
             0
                            0.0.0.0:ipp
                                                    0.0.0.0:*
JNCONN0
                            0.0.0.0:41865
             0
                                                    0.0.0.0:*
JNCONN0
             0
                      127.0.0.53%lo:domain
                                                    0.0.0.0:*
JNCONN0
             0
                            0.0.0.0:bootpc
                                                    0.0.0.0:*
JNCONN0
             0
                            0.0.0.0:mdns
                                                    0.0.0.0:*
JNCONNO
                               [::]:49353
             0
                                                       [::]:*
                               [::]:mdns
JNCONNO
             0
                                                       [::]:*
amisha@ubuntu:~S
```

ss-xa

antshagubuntu	-5 ss -	Xii	Market State	100000000000000000000000000000000000000
Netld State			Local Address:Port	Peer Address:Port
u_dgr UNCONN	ð	8	/run/user/1000/systemd/notlfy 53593	*1
u_dgr_UNCONN	8	8	/run/user/121/systemd/notify 31453	**
u_seq LISTEN	8	128	/run/udex/control 23643	3.00
u_atr LISTEN	0	128	/run/user/1980/systemé/private 53596	
u_str LISTEN	6	128	/run/user/121/systemd/private 31456	**
u_str LISTEN	0	128	/run/user/1000/bus \$3600	**
u_str LISTEN	0	128	@/trp/.ICE-unix/1031 32130	••
u_str LISTEN	0	128	/run/user/121/gnupg/S.gpg-agent.ssh 31460	**
u_dgr UNCONN	0	0	/run/systend/journal/syslog 23765	* 0
u_str LISTEN	0	128	/run/user/1600/gnupg/S.gpg-agent.extra 53601	*.6
u_str LISTEN	8	128	/run/user/1000/gnupg/S.gpg-agent.ssh 53602	**
u_str LISTEN	8	5	/run/user/121/pulse/native 31461	* 6
u str LESTEN	b	128	/run/user/1888/gnupg/S.gpg-agent 53683	**

# Nslookup

It is also one of the ways to get the ip address

Ping

Tracert

nslookup

```
amisha@ubuntu:~$ nslookup google.com
```

Server: 127.0.0.53 Address: 127.0.0.53#53

Non-authoritative answer:

Name: google.com

Address: 172.217.166.78

Name: google.com

Address: 2404:6800:4009:80d::200e

# dig command in linux:

With the dig command, you can query information about various DNS records, including host addresses, mail exchanges, and name servers. It is the most

commonly used tool among system administrators for troubleshooting DNS problems because of its flexibility and ease of use.

```
amisha@ubuntu:~$ dig google.com
; <<>> DiG 9.11.3-1ubuntu1.11-Ubuntu <<>> google.com
;; global options: +cmd
;; Got answer:
;; ->>HEADER<<- opcode: QUERY, status: NOERROR, id: 23586
;; flags: qr rd ra; QUERY: 1, ANSWER: 1, AUTHORITY: 0, ADDITIO
NAL: 1
;; OPT PSEUDOSECTION:
; EDNS: version: 0, flags:; udp: 65494
;; QUESTION SECTION:
;google.com.
                               IN
                                       Α
;; ANSWER SECTION:
google.com.
                       5
                              IN
                                       Α
                                               172.217.166.78
;; Query time: 599 msec
;; SERVER: 127.0.0.53#53(127.0.0.53)
;; WHEN: Sat Dec 21 02:01:15 PST 2019
;; MSG SIZE rcvd: 55
```

We can also use dig command in another form:

dig google and host id:

```
misha@ubuntu:~$ dig 127.0.0.53
<>>> DiG 9.11.3-1ubuntu1.11-Ubuntu <<>> 127.0.0.53
; global options: +cmd
; Got answer:
; ->>HEADER<<- opcode: QUERY, status: NOERROR, id: 21696
; flags: qr rd ra; QUERY: 1, ANSWER: 1, AUTHORITY: 0, ADDITIO
IAL: 1
; OPT PSEUDOSECTION:
EDNS: version: 0, flags:; udp: 65494
; QUESTION SECTION:
127.0.0.53.
                              IN
                                      Α
; ANSWER SECTION:
                      5
.27.0.0.53.
                              IN A
                                              127.0.0.53
; Query time: 277 msec
; SERVER: 127.0.0.53#53(127.0.0.53)
; WHEN: Sat Dec 21 02:05:22 PST 2019
; MSG SIZE rcvd: 55
```