

EX:1B

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Linux Networking Commands

Every computer is connected to some other computer through a network whether internally or externally to exchange some information. This network can be small as some computers connected in your home or office, or can be large or complicated as in large University or the entire Internet. Maintaining a system's network is a task of System/Network administrator. Their task includes network configuration and troubleshooting. Here is a list of Networking and Troubleshooting commands:

<u>ifconfig</u>	Display and manipulate route and network interfaces.
<u>ip</u>	It is a replacement of ifconfig command.
<u>traceroute</u>	Network troubleshooting utility.
<u>tracpath</u>	Similar to traceroute but doesn't require root privileges.
<u>ping</u>	To check connectivity between two nodes.
<u>netstat</u>	Display connection information.
<u>ss</u>	It is a replacement of netstat.
<u>dig</u>	Query DNS related information.
<u>nslookup</u>	Find DNS related query.
<u>route</u>	Shows and manipulate IP routing table.
<u>host</u>	Performs DNS lookups.

<u>arp</u>	View or add contents of the kernel's ARP table.
<u>iwconfig</u>	Used to configure wireless network interface.
<u>hostname</u>	To identify a network name.
<u>curl or wget</u>	To download a file from internet.
<u>mtr</u>	Combines ping and tracepath into a single command.
<u>whois</u>	Will tell you about the website's whois.
<u>ifplugstatus</u>	Tells whether a cable is plugged in or not.

Explanation of the above commands:

1. ifconfig: ifconfig is short for interface configurator. This command is utilized in network inspection, initializing the interface, enabling or disabling an IP address, and configuring an interface with an IP address. Also, it is used to show the network and route interface.

The basic details shown with ifconfig are:

- MTU
- MAC address
- IP address

Syntax:

Ifconfig

```

root@ip-10-10-38-111:~# ifconfig
docker0: flags=4163<UP,BROADCAST,RUNNING,MULTICAST> mtu 1500
    inet 172.17.0.1 netmask 255.255.0.0 broadcast 172.17.255.255
    inet6 fe80::42:16ff:fec8:24d5 prefixlen 64 scopeid 0x20<link>
    ether 02:42:16:c8:24:d5 txqueuelen 0 (Ethernet)
    RX packets 0 bytes 0 (0.0 B)
    RX errors 0 dropped 0 overruns 0 frame 0
    TX packets 35 bytes 4761 (4.7 KB)
    TX errors 0 dropped 0 overruns 0 carrier 0 collisions 0

ens5: flags=4163<UP,BROADCAST,RUNNING,MULTICAST> mtu 9001
    inet 10.10.38.111 netmask 255.255.0.0 broadcast 10.10.255.255
    inet6 fe80::4a:89ff:fe31:79dd prefixlen 64 scopeid 0x20<link>
    ether 02:4a:89:31:79:dd txqueuelen 1000 (Ethernet)
    RX packets 8907 bytes 715564 (715.5 KB)
    RX errors 0 dropped 0 overruns 0 frame 0
    TX packets 6758 bytes 4150018 (4.1 MB)
    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 15766 bytes 4606708 (4.6 MB)
    RX errors 0 dropped 0 overruns 0 frame 0
    TX packets 15766 bytes 4606708 (4.6 MB)
    TX errors 0 dropped 0 overruns 0 carrier 0 collisions 0

veth9ddb7c8: flags=4163<UP,BROADCAST,RUNNING,MULTICAST> mtu 1500
    inet6 fe80::540c:a4ff:fe12:a53b prefixlen 64 scopeid 0x20<link>
    ether 56:0c:a4:12:a5:3b txqueuelen 0 (Ethernet)
    RX packets 0 bytes 0 (0.0 B)
    RX errors 0 dropped 0 overruns 0 frame 0
    TX packets 57 bytes 7476 (7.4 KB)
    TX errors 0 dropped 0 overruns 0 carrier 0 collisions 0

vethf098cf2: flags=4163<UP,BROADCAST,RUNNING,MULTICAST> mtu 1500
    inet6 fe80::10a6:daff:fe84:d9f2 prefixlen 64 scopeid 0x20<link>
    ether 12:a6:da:84:d9:f2 txqueuelen 0 (Ethernet)
    RX packets 0 bytes 0 (0.0 B)
    RX errors 0 dropped 0 overruns 0 frame 0
    TX packets 58 bytes 7566 (7.5 KB)
    TX errors 0 dropped 0 overruns 0 carrier 0 collisions 0

```

2. ip: It is the updated and latest edition of ifconfig command. The command provides the information of every network, such as ifconfig. Also, it can be used to get information about a particular interface. **Syntax:**

1. ip a
2. ip addr

```
File Edit View Search Terminal Help
veth9ddb7c8: flags=4163<UP,BROADCAST,RUNNING,MULTICAST> mtu 1500
    inet6 fe80::540c:a4ff:fe12:a53b prefixlen 64 scopeid 0x20<link>
    ether 56:0c:a4:12:a5:3b txqueuelen 0 (Ethernet)
    RX packets 0 bytes 0 (0.0 B)
    RX errors 0 dropped 0 overruns 0 frame 0
    TX packets 57 bytes 7476 (7.4 KB)
    TX errors 0 dropped 0 overruns 0 carrier 0 collisions 0

vethf098cf2: flags=4163<UP,BROADCAST,RUNNING,MULTICAST> mtu 1500
    inet6 fe80::10a6:daff:fe84:d9f2 prefixlen 64 scopeid 0x20<link>
    ether 12:a6:da:84:d9:f2 txqueuelen 0 (Ethernet)
    RX packets 0 bytes 0 (0.0 B)
    RX errors 0 dropped 0 overruns 0 frame 0
    TX packets 58 bytes 7566 (7.5 KB)
    TX errors 0 dropped 0 overruns 0 carrier 0 collisions 0

root@ip-10-10-38-111:~# ip a
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
        valid_lft forever preferred_lft forever
2: ens5: <BROADCAST,MULTICAST,UP,LOWER_UP> mtu 9001 qdisc mq state UP group default qlen 1000
    link/ether 02:4a:89:31:79:dd brd ff:ff:ff:ff:ff:ff
    inet 10.10.38.111/16 brd 10.10.255.255 scope global dynamic ens5
        valid_lft 2768sec preferred_lft 2768sec
    inet6 fe80::4a:89ff:fe31:79dd/64 scope link
        valid_lft forever preferred_lft forever
3: docker0: <BROADCAST,MULTICAST,UP,LOWER_UP> mtu 1500 qdisc noqueue state UP group default
    link/ether 02:42:16:c8:24:d5 brd ff:ff:ff:ff:ff:ff
    inet 172.17.0.1/16 brd 172.17.255.255 scope global docker0
        valid_lft forever preferred_lft forever
    inet6 fe80::42:16ff:fec8:24d5/64 scope link
        valid_lft forever preferred_lft forever
5: vethf098cf2@if4: <BROADCAST,MULTICAST,UP,LOWER_UP> mtu 1500 qdisc noqueue master docker0 state UP group default
    link/ether 12:a6:da:84:d9:f2 brd ff:ff:ff:ff:ff:ff link-netnsid 0
    inet6 fe80::10a6:daff:fe84:d9f2/64 scope link
        valid_lft forever preferred_lft forever
7: veth9ddb7c8@if6: <BROADCAST,MULTICAST,UP,LOWER_UP> mtu 1500 qdisc noqueue master docker0 state UP group default
    link/ether 56:0c:a4:12:a5:3b brd ff:ff:ff:ff:ff:ff link-netnsid 1
    inet6 fe80::540c:a4ff:fe12:a53b/64 scope link
        valid_lft forever preferred_lft forever
root@ip-10-10-38-111:~#
```

3. **traceroute:** The traceroute command is one of the most helpful commands in the networking field. It's used to balance the network. It identifies the delay and decides the pathway to our target. Basically, it aids in the below ways:
- It determines the location of the network latency and informs it.
 - It follows the path to the destination.
 - It gives the names and recognizes all devices on the path.

Syntax:

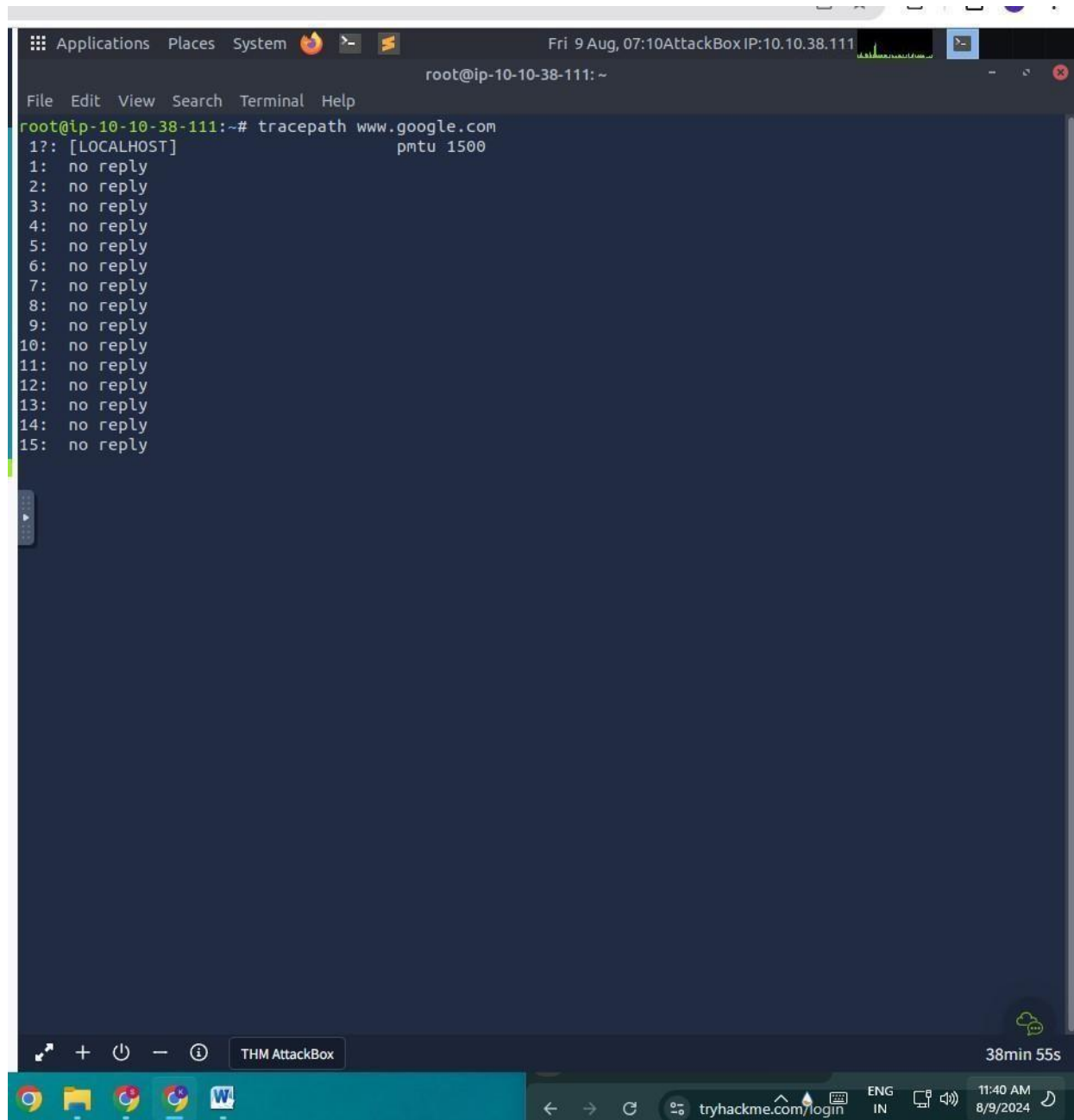
traceroute <destination>

```
root@ip-10-10-38-111:~# traceroute www.google.com
traceroute to www.google.com (209.85.202.104), 30 hops max, 60 byte packets
 1  * * *
 2  * * *
 3  * * *
 4  * * *
 5  * * *
 6  * * *
 7  * * *
 8  * * *
 9  * * *
10  * * *
11  * * *
12  * * *
13  * * *
14  * * *
15  * * *
16  * * *
17  * * *
18  * * *
19  * * *
20  * * *
21  * * *
22  * * *
23  * * *
24  * * *
25  * * *
26  * * *
27  * * *
28  * * *
29  * * *
30  * * *
```

4. **tracpath:** The tracpath command is the same as the traceroute command, and it is used to find network delays. Besides, it does not need root privileges. By default, it comes pre-installed in Ubuntu. It traces the path to the destination and recognizes all hops in it. It identifies the point at which the network is weak if our network is not strong enough.

Syntax:

tracpath <destination>



The screenshot shows a Kali Linux desktop environment. A terminal window is open, displaying the command `tracert www.google.com` and its output. The output shows 15 hops, all of which are '[LOCALHOST]' with 'no reply' for each hop. The terminal window has a title bar that reads 'root@ip-10-10-38-111: ~'. The desktop background is dark blue. The taskbar at the bottom shows icons for Chrome, File Manager, and other applications. The system clock in the bottom right corner shows '11:40 AM 8/9/2024'.

```
root@ip-10-10-38-111:~# tracert www.google.com
1?: [LOCALHOST] pmtu 1500
1: no reply
2: no reply
3: no reply
4: no reply
5: no reply
6: no reply
7: no reply
8: no reply
9: no reply
10: no reply
11: no reply
12: no reply
13: no reply
14: no reply
15: no reply
```

5. **ping:** It is short for Packet Internet Groper. The ping command is one of the widely used commands for network troubleshooting. Basically, it inspects the network connectivity between two different nodes.

Syntax:

ping <destination>


```
root@ip-10-10-38-111:~  
File Edit View Search Terminal Help  
[-w deadline] [-W timeout] [hop1 ...] destination  
Usage: ping -6 [-aAbBdDfhLnOqrRUvV] [-c count] [-i interval] [-I interface]  
[-l preload] [-m mark] [-M pmtudisc_option]  
[-N nodeinfo_option] [-p pattern] [-Q tclass] [-s packetsize]  
[-S sndbuf] [-t ttl] [-T timestamp_option] [-w deadline]  
[-W timeout] destination  
root@ip-10-10-38-111:~# ping 10.10.38.  
ping: 10.10.38.: Name or service not known  
root@ip-10-10-38-111:~# ping 10.10.38.111  
PING 10.10.38.111 (10.10.38.111) 56(84) bytes of data.  
64 bytes from 10.10.38.111: icmp_seq=1 ttl=64 time=0.042 ms  
64 bytes from 10.10.38.111: icmp_seq=2 ttl=64 time=0.037 ms  
64 bytes from 10.10.38.111: icmp_seq=3 ttl=64 time=0.027 ms  
64 bytes from 10.10.38.111: icmp_seq=4 ttl=64 time=0.029 ms  
64 bytes from 10.10.38.111: icmp_seq=5 ttl=64 time=0.023 ms  
64 bytes from 10.10.38.111: icmp_seq=6 ttl=64 time=0.044 ms  
64 bytes from 10.10.38.111: icmp_seq=7 ttl=64 time=0.025 ms  
64 bytes from 10.10.38.111: icmp_seq=8 ttl=64 time=0.027 ms  
64 bytes from 10.10.38.111: icmp_seq=9 ttl=64 time=0.032 ms  
64 bytes from 10.10.38.111: icmp_seq=10 ttl=64 time=0.025 ms  
64 bytes from 10.10.38.111: icmp_seq=11 ttl=64 time=0.035 ms  
64 bytes from 10.10.38.111: icmp_seq=12 ttl=64 time=0.029 ms  
64 bytes from 10.10.38.111: icmp_seq=13 ttl=64 time=0.041 ms  
64 bytes from 10.10.38.111: icmp_seq=14 ttl=64 time=0.044 ms  
64 bytes from 10.10.38.111: icmp_seq=15 ttl=64 time=0.039 ms  
64 bytes from 10.10.38.111: icmp_seq=16 ttl=64 time=0.030 ms  
64 bytes from 10.10.38.111: icmp_seq=17 ttl=64 time=0.040 ms  
64 bytes from 10.10.38.111: icmp_seq=18 ttl=64 time=0.027 ms  
64 bytes from 10.10.38.111: icmp_seq=19 ttl=64 time=0.042 ms  
64 bytes from 10.10.38.111: icmp_seq=20 ttl=64 time=0.042 ms  
64 bytes from 10.10.38.111: icmp_seq=21 ttl=64 time=0.027 ms  
64 bytes from 10.10.38.111: icmp_seq=22 ttl=64 time=0.025 ms  
64 bytes from 10.10.38.111: icmp_seq=23 ttl=64 time=0.037 ms  
64 bytes from 10.10.38.111: icmp_seq=24 ttl=64 time=0.042 ms  
64 bytes from 10.10.38.111: icmp_seq=25 ttl=64 time=0.181 ms  
64 bytes from 10.10.38.111: icmp_seq=26 ttl=64 time=0.028 ms  
64 bytes from 10.10.38.111: icmp_seq=27 ttl=64 time=0.043 ms  
64 bytes from 10.10.38.111: icmp_seq=28 ttl=64 time=0.025 ms  
64 bytes from 10.10.38.111: icmp_seq=29 ttl=64 time=0.032 ms  
64 bytes from 10.10.38.111: icmp_seq=30 ttl=64 time=0.031 ms  
64 bytes from 10.10.38.111: icmp_seq=31 ttl=64 time=0.047 ms  
^C  
--- 10.10.38.111 ping statistics ---  
31 packets transmitted, 31 received, 0% packet loss, time 30723ms  
rtt min/avg/max/mdev = 0.023/0.038/0.181/0.027 ms  
root@ip-10-10-38-111:~#
```

6.

netstat: It is short for network statistics. It gives statistical figures of many interfaces, which contain open sockets, connection information, and routing tables.

Syntax:

Netstat

```
File Edit View Search Terminal Help
unix 3 [ ] STREAM CONNECTED 30757 @/tmp/dbus-syGt6LJFW9
unix 3 [ ] STREAM CONNECTED 29383 /run/systemd/journal/stdout
unix 3 [ ] STREAM CONNECTED 28959 /run/systemd/journal/stdout
unix 3 [ ] STREAM CONNECTED 63562
unix 3 [ ] STREAM CONNECTED 30129
unix 3 [ ] STREAM CONNECTED 25464 /var/run/dbus/system_bus_socket
unix 3 [ ] STREAM CONNECTED 27535
unix 3 [ ] STREAM CONNECTED 29397 /run/systemd/journal/stdout
unix 2 [ ] DGRAM 32416
unix 3 [ ] STREAM CONNECTED 29811
unix 3 [ ] STREAM CONNECTED 29148
unix 3 [ ] STREAM CONNECTED 24921
unix 3 [ ] STREAM CONNECTED 25382
unix 3 [ ] STREAM CONNECTED 27880
unix 3 [ ] STREAM CONNECTED 27351
unix 2 [ ] DGRAM 22033
unix 3 [ ] STREAM CONNECTED 30767 @/tmp/dbus-syGt6LJFW9
unix 3 [ ] STREAM CONNECTED 29605
unix 3 [ ] STREAM CONNECTED 27130
unix 2 [ ] DGRAM 25476
unix 3 [ ] STREAM CONNECTED 19423 /var/run/dbus/system_bus_socket
unix 3 [ ] STREAM CONNECTED 32978
unix 3 [ ] STREAM CONNECTED 29381
unix 3 [ ] STREAM CONNECTED 34353
unix 3 [ ] STREAM CONNECTED 30112 /run/systemd/journal/stdout
unix 3 [ ] STREAM CONNECTED 29382 /run/systemd/journal/stdout
unix 3 [ ] STREAM CONNECTED 27022 /run/systemd/journal/stdout
unix 3 [ ] STREAM CONNECTED 18837 /var/run/dbus/system_bus_socket
unix 3 [ ] STREAM CONNECTED 29776 @/tmp/dbus-syGt6LJFW9
unix 3 [ ] STREAM CONNECTED 27866 @/tmp/dbus-syGt6LJFW9
unix 3 [ ] DGRAM 17056
unix 3 [ ] SEQPACKET CONNECTED 63556
unix 3 [ ] STREAM CONNECTED 30734
unix 3 [ ] STREAM CONNECTED 29785
unix 3 [ ] STREAM CONNECTED 29150 @/tmp/dbus-syGt6LJFW9
unix 3 [ ] STREAM CONNECTED 27005
unix 3 [ ] STREAM CONNECTED 17677
unix 3 [ ] STREAM CONNECTED 33137
unix 3 [ ] STREAM CONNECTED 28112 @/tmp/dbus-SetFr4GY3I
unix 3 [ ] STREAM CONNECTED 30012 @/tmp/.X11-unix/X1
unix 3 [ ] STREAM CONNECTED 26693 @/tmp/.X11-unix/X1
unix 2 [ ] DGRAM 881
unix 3 [ ] STREAM CONNECTED 45152
unix 3 [ ] STREAM CONNECTED 31428
unix 3 [ ] STREAM CONNECTED 28557 @/tmp/dbus-SetFr4GY3I
unix 3 [ ] STREAM CONNECTED 27871
```

7. **ss:** This command is the substitution for the netstat command. The ss command is more informative and much faster than netstat. The ss command's faster response is possible because it fetches every information from inside the kernel userspace.

Syntax:

Ss


```
root@ip-10-10-38-111: ~  
File Edit View Search Terminal Help  
68180 * 68181  
u_str ESTAB 0 0  
63443 * 63444  
u_str ESTAB 0 0  
45154 * 44635  
u_str ESTAB 0 0  
29772 * 29378  
u_str ESTAB 0 0  
62417 * 62416  
u_str ESTAB 0 0  
24854 * 26289  
u_str ESTAB 0 0  
62776 * 63530  
u_str ESTAB 0 0  
29679 * 30095  
u_str ESTAB 0 0  
29656 * 30068  
u_str ESTAB 0 0  
19962 * 18852  
u_str ESTAB 0 0  
27917 * 27916  
u_str ESTAB 64 0  
26859 * 25446  
u_str ESTAB 0 0  
28978 * 28369  
u_str ESTAB 0 0  
28317 * 28906  
u_str ESTAB 0 0  
63890 * 63006  
u_str ESTAB 0 0  
32451 * 33491
```

8. **nslookup**: The nslookup command is an older edition of the dig command. Also, it is utilized for DNS related problems.

The screenshot shows a Kali Linux desktop environment with a terminal window open. The terminal displays a list of network connections using the `ss -ttn` command. The connections include SYN-SENT and ESTAB states for various ports and protocols (tcp, http). Below the connection list, the `nslookup` command is used to query the IP address of `www.google.com`. The output shows a non-authoritative answer with multiple IP addresses for `www.google.com`.

```
root@ip-10-10-38-111: ~  
File Edit View Search Terminal Help  
tcp                SYN-SENT           0                1                10.10.38.111:  
44124              34.117.188.166:https  
tcp                SYN-SENT           0                1                10.10.38.111:  
59546              34.120.208.123:https  
tcp                ESTAB              0                0                127.0.0.1:  
5901              127.0.0.1:54532  
tcp                SYN-SENT           0                1                10.10.38.111:  
56484              34.107.221.82:http  
tcp                ESTAB              0                0                10.10.38.111:  
http              10.100.2.28:52654  
tcp                ESTAB              0                0                127.0.0.1:  
54532              127.0.0.1:5901  
root@ip-10-10-38-111:~# nslookup  
www.google.com  
Server:           127.0.0.53  
Address:          127.0.0.53#53  
  
Non-authoritative answer:  
Name:   www.google.com  
Address: 209.85.202.104  
Name:   www.google.com  
Address: 209.85.202.103  
Name:   www.google.com  
Address: 209.85.202.106  
Name:   www.google.com  
Address: 209.85.202.99  
Name:   www.google.com  
Address: 209.85.202.147  
Name:   www.google.com  
Address: 209.85.202.105  
Name:   www.google.com  
Address: 2a00:1450:400b:c00::68  
Name:   www.google.com  
Address: 2a00:1450:400b:c00::6a  
Name:   www.google.com  
Address: 2a00:1450:400b:c00::63  
Name:   www.google.com  
Address: 2a00:1450:400b:c00::67  
>
```

Syntax: `nslookup`
`<domainname>`

9. **dig:** dig is short for Domain Information Groper. The dig command is an improvised edition of the nslookup command. It is utilized in DNS lookup to reserve the DNS name server. Also, it is used to balance DNS related problems. Mainly, it is used to authorize DNS mappings, host addresses, MX records, and every other DNS record for the best DNS topography understanding.

Syntax:
`dig <domainname>`

```
root@ip-10-10-38-111: ~  
File Edit View Search Terminal Help  
Address: 209.85.202.104  
Name: www.google.com  
Address: 209.85.202.103  
Name: www.google.com  
Address: 209.85.202.106  
Name: www.google.com  
Address: 209.85.202.99  
Name: www.google.com  
Address: 209.85.202.147  
Name: www.google.com  
Address: 209.85.202.105  
Name: www.google.com  
Address: 2a00:1450:400b:c00::68  
Name: www.google.com  
Address: 2a00:1450:400b:c00::6a  
Name: www.google.com  
Address: 2a00:1450:400b:c00::63  
Name: www.google.com  
Address: 2a00:1450:400b:c00::67  
^Croot@ip-10-10-38-111:~# dig www.google.com  
  
;<<<> DiG 9.11.3-1ubuntu1.18-Ubuntu <<<> www.google.com  
;; global options: +cmd  
;; Got answer:  
;; ->HEADER<- opcode: QUERY, status: NOERROR, id: 41715  
;; flags: qr rd ra; QUERY: 1, ANSWER: 6, AUTHORITY: 0, ADDITIONAL: 1  
  
;; OPT PSEUDOSECTION:  
; EDNS: version: 0, flags:; udp: 65494  
;; QUESTION SECTION:  
;www.google.com.  
IN A  
  
;; ANSWER SECTION:  
www.google.com. 180 IN A 209.85.202.105  
www.google.com. 180 IN A 209.85.202.147  
www.google.com. 180 IN A 209.85.202.99  
www.google.com. 180 IN A 209.85.202.106  
www.google.com. 180 IN A 209.85.202.103  
www.google.com. 180 IN A 209.85.202.104  
  
;; Query time: 0 msec  
;; SERVER: 127.0.0.53#53(127.0.0.53)  
;; WHEN: Fri Aug 09 07:17:37 BST 2024  
;; MSG SIZE rcvd: 139  
  
root@ip-10-10-38-111:~#
```

10. **route:** The route command shows and employs the routing table available for our system. Basically, a router is used to detect a better way to transfer the packets around a destination.

Syntax:

Route

11. **host:** The host command shows the IP address for a hostname and the domain name for an IP address. Also, it is used to get DNS lookup for DNS related issues.

Syntax: host -t

<resourceName>

12. **arp:** The arp command is short for Address Resolution Protocol. This command is used to see and include content in the ARP table of the kernel.

Syntax:

1. Arp

13. **iwconfig:** It is a simple command which is used to see and set the system's hostname.

Syntax:

Hostname

14. **curl and wget:** These commands are used to download files from CLI from the internet. curl must be specified with the "O" option to get the file, while wget is directly used. **curl Syntax:**

1. curl -O <fileLink>

15. **wget Syntax**

:

1. wget <fileLink>

16. **mtr:** The mtr command is a mix of the traceroute and ping commands. It regularly shows information related to the packets transferred using the ping time of all hops. Also, it is used to see network problems.

Syntax:

1. mtr <path>

17. **whois:** The whois command fetches every website related information. We can get every information of a website, such as an owner and the registration information.

Syntax:

1. mtr <websiteName>

18. **ifplugstatus:** The ifplugstatus command checks whether a cable is currently plugged into a network interface. It is not available in Ubuntu directly. We can install it with the help of the below command:

1. sudo apt-get install ifplugd

Syntax:

1. Ifplugstatus **iftop:** The iftop command is utilized in traffic monitoring.

tcpdump: The tcpdump command is widely used in network analysis with other commands of the Linux network. It analyses the traffic passing from the network interface and shows it. When balancing the network, this type of packet access will be crucial. **Syntax:**

1. \$ tcpdump -i <network_device>