

## LINUX 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:

**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.

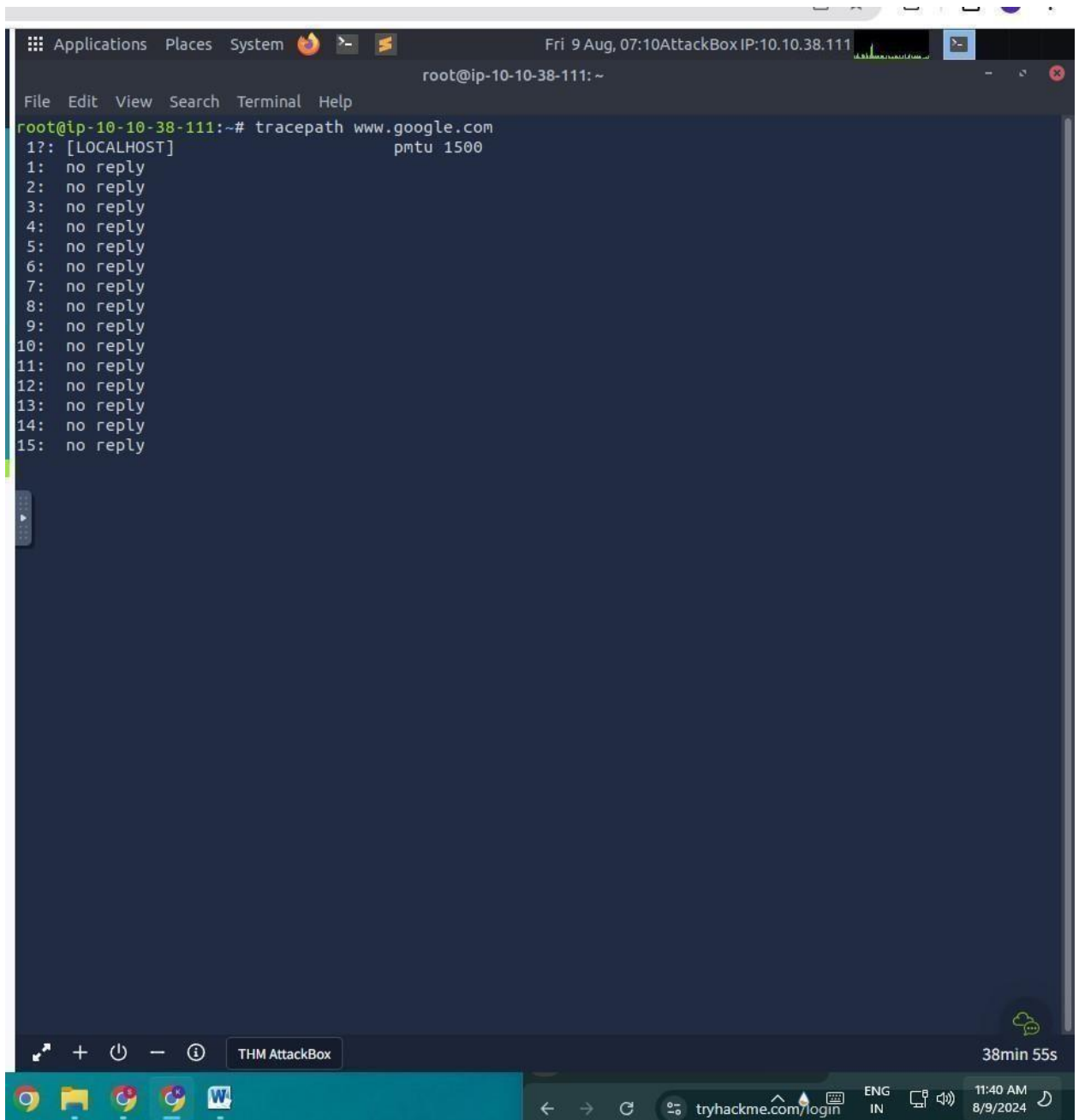
**Syntax:** traceroute  
<destination>

```
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>



```
Applications Places System Fri 9 Aug, 07:10 AttackBox IP:10.10.38.111
root@ip-10-10-38-111: ~
File Edit View Search Terminal Help
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
THM AttackBox 38min 55s
tryhackme.com/login ENG IN 11:40 AM 8/9/2024
```

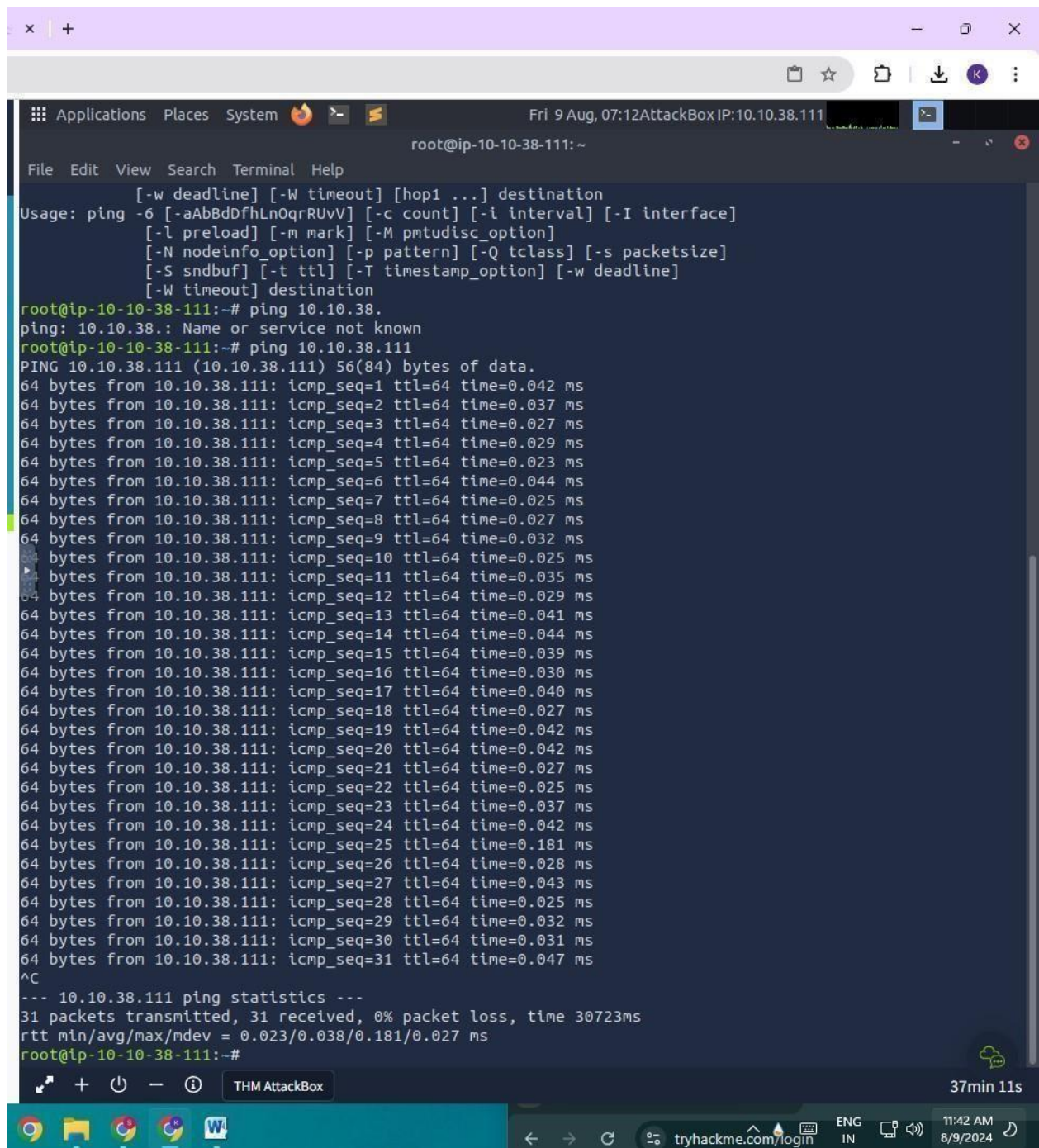
5.

**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>





The screenshot shows a terminal window titled "root@ip-10-10-38-111: ~" with a menu bar (File, Edit, View, Search, Terminal, Help) and a status bar (THM AttackBox, 37min 11s). The terminal displays the following text:

```
[ -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

```
root@ip-10-10-38-111: ~
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 /run/systemd/journal/stdout
unix 3 [ ] STREAM CONNECTED 30129 /run/systemd/journal/stdout
unix 3 [ ] STREAM CONNECTED 25464 /var/run/dbus/system_bus_socket
unix 3 [ ] STREAM CONNECTED 27535 /var/run/dbus/system_bus_socket
unix 3 [ ] STREAM CONNECTED 29397 /run/systemd/journal/stdout
unix 2 [ ] DGRAM 32416 /run/systemd/journal/stdout
unix 3 [ ] STREAM CONNECTED 29811 /run/systemd/journal/stdout
unix 3 [ ] STREAM CONNECTED 29148 /run/systemd/journal/stdout
unix 3 [ ] STREAM CONNECTED 24921 /run/systemd/journal/stdout
unix 3 [ ] STREAM CONNECTED 25382 /run/systemd/journal/stdout
unix 3 [ ] STREAM CONNECTED 27880 /run/systemd/journal/stdout
unix 3 [ ] STREAM CONNECTED 27351 /run/systemd/journal/stdout
unix 2 [ ] DGRAM 22033 /run/systemd/journal/stdout
unix 3 [ ] STREAM CONNECTED 30767 @/tmp/dbus-syGt6LJFW9
unix 3 [ ] STREAM CONNECTED 29605 @/tmp/dbus-syGt6LJFW9
unix 3 [ ] STREAM CONNECTED 27130 @/tmp/dbus-syGt6LJFW9
unix 2 [ ] DGRAM 25476 /var/run/dbus/system_bus_socket
unix 3 [ ] STREAM CONNECTED 19423 /var/run/dbus/system_bus_socket
unix 3 [ ] STREAM CONNECTED 32978 /var/run/dbus/system_bus_socket
unix 3 [ ] STREAM CONNECTED 29381 /var/run/dbus/system_bus_socket
unix 3 [ ] STREAM CONNECTED 34353 /var/run/dbus/system_bus_socket
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 @/tmp/dbus-syGt6LJFW9
unix 3 [ ] SEQPACKET CONNECTED 63556 @/tmp/dbus-syGt6LJFW9
unix 3 [ ] STREAM CONNECTED 30734 @/tmp/dbus-syGt6LJFW9
unix 3 [ ] STREAM CONNECTED 29785 @/tmp/dbus-syGt6LJFW9
unix 3 [ ] STREAM CONNECTED 29150 @/tmp/dbus-syGt6LJFW9
unix 3 [ ] STREAM CONNECTED 27005 @/tmp/dbus-syGt6LJFW9
unix 3 [ ] STREAM CONNECTED 17677 @/tmp/dbus-syGt6LJFW9
unix 3 [ ] STREAM CONNECTED 33137 @/tmp/dbus-syGt6LJFW9
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 @/tmp/.X11-unix/X1
unix 3 [ ] STREAM CONNECTED 45152 @/tmp/.X11-unix/X1
unix 3 [ ] STREAM CONNECTED 31428 @/tmp/.X11-unix/X1
unix 3 [ ] STREAM CONNECTED 28557 @/tmp/dbus-SetFr4GY3I
unix 3 [ ] STREAM CONNECTED 27871 @/tmp/dbus-SetFr4GY3I
```

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 /var/run/dbus/system_bus_socket
u_str ESTAB 0 0
62417 * 62416
u_str ESTAB 0 0
24854 /run/systemd/journal/stdout
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 /run/systemd/journal/stdout
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. At the top, there is a purple taskbar with icons for Applications, Places, and System. Below it is a terminal window titled 'root@ip-10-10-38-111: ~'. The terminal displays a list of network connections with columns for protocol, state, local address, remote address, and port. The connections include SYN-SENT and ESTAB states for various protocols like tcp, http, and https. Below the network statistics, the user has entered the command 'nslookup' followed by 'www.google.com'. The output shows the IP address 127.0.0.53 and a list of non-authoritative answers for the domain www.google.com, including IPv4 and IPv6 addresses. The bottom of the screen shows a teal taskbar with icons for Google, File Manager, and other applications. The system tray at the bottom right indicates the time as 11:46 AM on 8/9/2024.

```
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:**

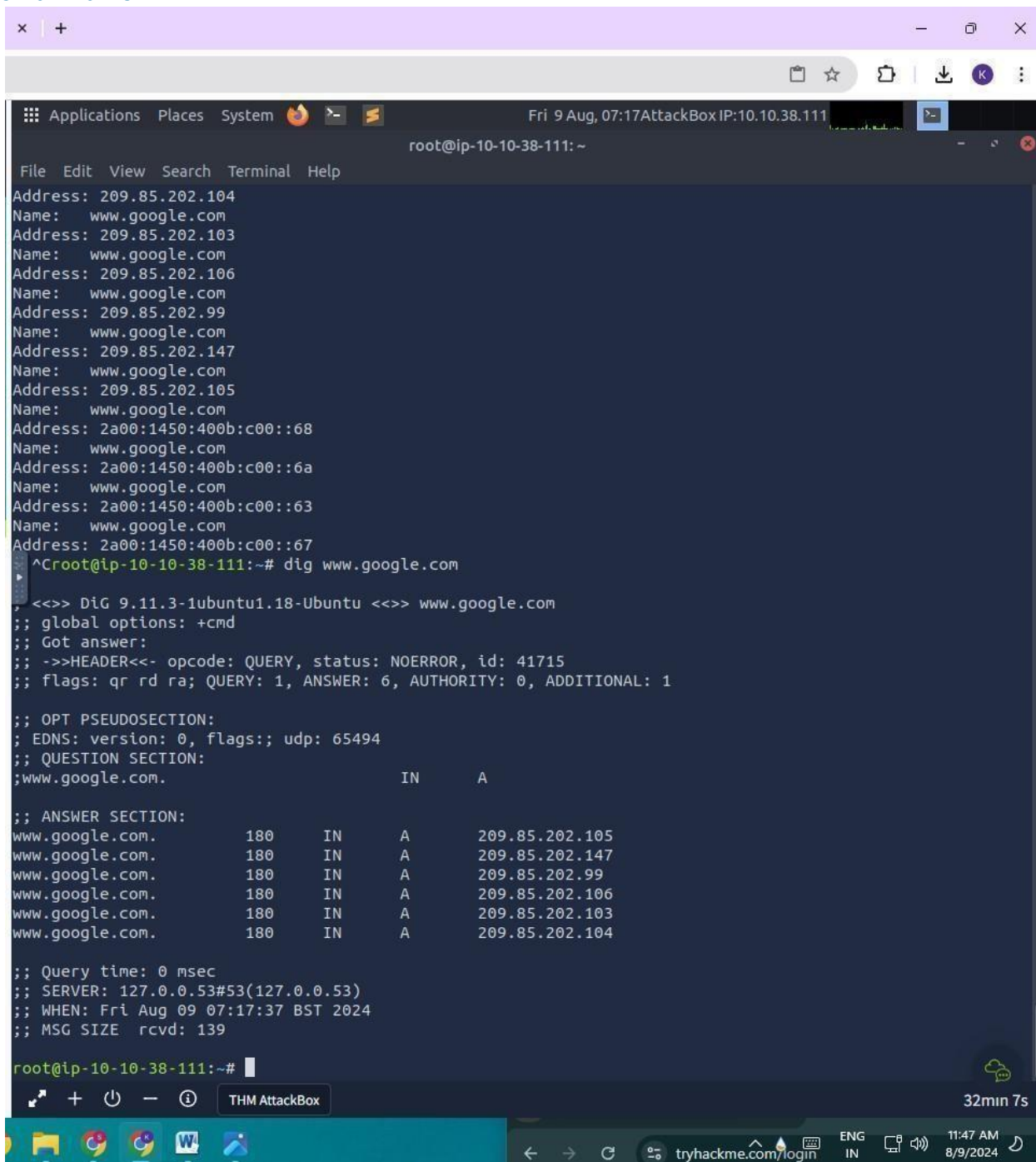
nslookup <domainname>

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>



```

x | +
Fri 9 Aug, 07:17 AttackBox IP: 10.10.38.111
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:~#
THM AttackBox
32min 7s
tryhackme.com/login
ENG IN
11:47 AM
8/9/2024
```

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>

**RESULT :**

Basic linux commands are executed successfully.