```
aayushrauniyar@DESKTOP-2A ×    +    ∨

aayushrauniyar@DESKTOP-2A7CVUK:~$ ifconfig
eth0: flags=4163<UP,BROADCAST,RUNNING,MULTICAST>  mtu 1500
        inet 172.25.27.103  netmask 255.255.240.0  broadcast 172.25.31.255
        inet6 fe80::215:5dff:fe3d:7699  prefixlen 64  scopeid 0x20<link>
        ether 00:15:5d:3d:76:99  txqueuelen 1000  (Ethernet)
        RX packets 43105  bytes 139347997 (139.3 MB)
        RX errors 0  dropped 0  overruns 0  frame 0
        TX packets 30766  bytes 2332811 (2.3 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 92  bytes 10372 (10.3 KB)
        RX errors 0  dropped 0  overruns 0  frame 0
        TX packets 92  bytes 10372 (10.3 KB)
        TX errors 0  dropped 0 overruns 0  carrier 0  collisions 0
```

```
aayushrauniyar@DESKTOP-2A7CVUK:~$ 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
    inet 10.255.255.254/32 brd 10.255.255.254 scope global lo
       valid_lft forever preferred_lft forever
    inet6 ::1/128 scope host
       valid_lft forever preferred_lft forever
2: eth0: <BROADCAST,MULTICAST,UP,LOWER_UP> mtu 1500 qdisc mq state UP group default qlen 1000
    link/ether 00:15:5d:3d:76:99 brd ff:ff:ff:ff:ff:ff
    inet 172.25.27.103/20 brd 172.25.31.255 scope global eth0
       valid_lft forever preferred_lft forever
    inet6 fe80::215:5dff:fe3d:7699/64 scope link
       valid_lft forever preferred_lft forever
```

```
aayushrauniyar@DESKTOP-2A7CVUK:~$ ip link
1: lo: <LOOPBACK,UP,LOWER_UP> mtu 65536 qdisc noqueue state UNKNOWN mode DEFAULT group default qlen 1000
    link/loopback 00:00:00:00:00:00 brd 00:00:00:00:00:00
2: eth0: <BROADCAST,MULTICAST,UP,LOWER_UP> mtu 1500 qdisc mq state UP mode DEFAULT group default qlen 1000
    link/ether 00:15:5d:3d:76:99 brd ff:ff:ff:ff:ff:ff
```

```
aayushrauniyar@DESKTOP-2A7CVUK:~$ ip route
default via 172.25.16.1 dev eth0 proto kernel
172.25.16.0/20 dev eth0 proto kernel scope link src 172.25.27.103
```

```
aayushrauniyar@DESKTOP-2A7CVUK:~$ ip neigh
172.25.16.1 dev eth0 lladdr 00:15:5d:2f:af:71 REACHABLE
```

```
aayushrauniyar@DESKTOP-2A7CVUK:~$ hostname
DESKTOP-2A7CVUK
```

```
aayushrauniyar@DESKTOP-2A7CVUK:~$ hostname -I
172.25.27.103
```

```
aayushrauniyar@DESKTOP-2A7CVUK:~$ ping www.google.com
PING www.google.com (142.250.182.164) 56(84) bytes of data.
64 bytes from del11s10-in-f4.1e100.net (142.250.182.164): icmp_seq=1 ttl=116 time=102 ms
64 bytes from del11s10-in-f4.1e100.net (142.250.182.164): icmp_seq=2 ttl=116 time=48.8 ms
64 bytes from del11s10-in-f4.1e100.net (142.250.182.164): icmp_seq=3 ttl=116 time=333 ms
64 bytes from del11s10-in-f4.1e100.net (142.250.182.164): icmp_seq=4 ttl=116 time=29.0 ms
64 bytes from del11s10-in-f4.1e100.net (142.250.182.164): icmp_seq=5 ttl=116 time=61.9 ms
64 bytes from del11s10-in-f4.1e100.net (142.250.182.164): icmp_seq=6 ttl=116 time=48.2 ms
^X^Z
[2]+  Stopped                 ping www.google.com
```

```
aayushrauniyar@DESKTOP-2A7CVUK:~$ tracepath www.google.com
 1?: [LOCALHOST]                        pmtu 1500
 1:  DESKTOP-2A7CVUK.mshome.net                         1.043ms
 1:  DESKTOP-2A7CVUK.mshome.net                         1.580ms
 2:  192.168.1.1                                        6.969ms
 3:  103.1.93.1                                        99.835ms
 4:  202.94.66.210                                     38.180ms
 5:  202.94.66.240                                     25.223ms
 6:  ???                                               13.732ms
 7:  116.68.209.163                                    32.689ms asymm 11
 8:  no reply
^X 9:  no reply
^Z
[3]+  Stopped                 tracepath www.google.com
```

```
                              My traceroute  [v0.95]
DESKTOP-2A7CVUK (172.25.27.103) -> www.google.com (172.217.167.196)           2025-08-27T07:24:56+0000
Keys:  Help   Display mode   Restart statistics   Order of fields   quit
                                                              Packets               Pings
 Host                                                        Loss%   Snt   Last   Avg  Best  Wrst StDev
 1. DESKTOP-2A7CVUK.mshome.net                                0.0%     6    1.2   1.1   1.0   1.2   0.1
 2. 192.168.1.1                                               0.0%     6  255.1  81.7  14.9 255.1  91.6
 3. 103.1.93.1                                                0.0%     6  165.7  99.9  33.1 170.1  59.3
 4. 202.94.66.210                                             0.0%     6  262.1 205.2  20.7 331.9 111.5
 5. 202.94.66.240                                             0.0%     6  158.7 141.1  65.6 228.2  61.5
 6. 36.253.0.33                                               0.0%     6  304.0 134.1  39.3 304.0 108.3
 7. 116.68.209.163                                            0.0%     6  120.4  80.9  25.5 120.4  35.8
 8. 172.253.69.191                                            0.0%     6   30.3  39.3  26.8  82.7  24.3
 9. 209.85.252.65                                             0.0%     5  308.7  99.0  31.4 308.7 119.4
10. del03s18-in-f4.1e100.net                                  0.0%     5  485.0 223.3  56.5 485.0 197.3
```