

## Network Commands

	Registration Number	Surname	Forename	% Contribution
Student 1	001141646	Iz	Ekrem	25
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### Task 1 →

	Computer 1	Computer 2	Computer 3
IP Address	192.168.12.113	192.168.12.205	192.168.112.97
Subnet Mask	255.255.255.0	255.255.255.0	255.255.255.0
Default Gateway	192.168.12.1	192.168.12.1	192.168.112.1

Computer 1 and Computer 2 can communicate with each other. As we can see by analysing the subnet masks. The first three octets of all the three computers' IP addresses belong to network. Therefore, computer 3 has a different network address than computer 1 and computer 2. So, computer 3 cannot communicate with computer 1 and computer 2. However, as the computer 1

and computer 2 are on the same network, they can communicate between each other (Hunter, 2021).

Task 2→

Windows→

```
Wireless LAN adapter Wi-Fi:

Connection-specific DNS Suffix  . : cable.virginm.net
Link-local IPv6 Address . . . . . : fe80::fd33:ce70:2fb0:838d%10
IPv4 Address. . . . . : 192.168.0.24
Subnet Mask . . . . . : 255.255.255.0
Default Gateway . . . . . : 192.168.0.1
```

CentOS7 →

```
virbr0: flags=4099<UP,BROADCAST,MULTICAST> mtu 1500
    inet 192.168.122.1 netmask 255.255.255.0 broadcast 192.168.122.255
    ether 52:54:00:62:64:8a txqueuelen 1000 (Ethernet)
    RX packets 0 bytes 0 (0.0 B)
    RX errors 0 dropped 0 overruns 0 frame 0
    TX packets 0 bytes 0 (0.0 B)
    TX errors 0 dropped 0 overruns 0 carrier 0 collisions 0
```

```
[Eko@localhost ~]$ netstat -rn
Kernel IP routing table
Destination      Gateway         Genmask         Flags         MSS Window  irtt Iface
0.0.0.0          10.0.2.2        0.0.0.0         UG            0 0        0 enp0s3
10.0.2.0         0.0.0.0         255.255.255.0   U             0 0        0 enp0s3
192.168.122.0    0.0.0.0         255.255.255.0   U             0 0        0 virbr0
```

	Windows	CentOS 7
IPv4 Address	192.168.0.24	192.168.122.1
Subnet Mask	255.255.255.0	255.255.255.0
Default Gateway	192.168.0.1	0.0.0.0 → this means unspecified/there is no gateway.

Network Address	192.168.0.0	192.168.122.0
Broadcast Address	192.168.0.255	192.168.122.255
No. Hosts	Range between 192.168.0.0 – 192.168.0.255 → $256 - 2 = 254$ hosts	Range between 192.168.122.0 – 192.168.122.255 → $256 - 2 = 254$ hosts

### Task 3 →

#### Windows →

```
Windows IP Configuration

Host Name . . . . . : DESKTOP-6B97V67
Primary Dns Suffix . . . . . :
Node Type . . . . . : Hybrid
IP Routing Enabled. . . . . : No
WINS Proxy Enabled. . . . . : No
DNS Suffix Search List. . . . . : cable.virginm.net
```

Wireless LAN adapter Wi-Fi:

```
Connection-specific DNS Suffix  . : cable.virginm.net
Description . . . . . : Intel(R) Wi-Fi 6 AX200 160MHz
Physical Address. . . . . : B8-9A-2A-DB-6C-B2
DHCP Enabled. . . . . : Yes
Autoconfiguration Enabled . . . . : Yes
Link-local IPv6 Address . . . . . : fe80::fd33:ce70:2fb0:838d%10(Preferred)
IPv4 Address. . . . . : 192.168.0.24(Preferred)
Subnet Mask . . . . . : 255.255.255.0
Lease Obtained. . . . . : 23 October 2021 00:02:20
Lease Expires . . . . . : 24 October 2021 16:17:24
Default Gateway . . . . . : 192.168.0.1
DHCP Server . . . . . : 192.168.0.1
DHCPv6 IAID . . . . . : 179870250
DHCPv6 Client DUID. . . . . : 00-01-00-01-27-F2-EA-CB-80-FA-5B-83-1F-AF
DNS Servers . . . . . : 194.168.4.100
                       : 194.168.8.100
NetBIOS over Tcpip. . . . . : Enabled
```

CentOS7 →

```
[Eko@localhost ~]$ hostname
localhost.localdomain
[Eko@localhost ~]$ cat /etc/resolv.conf
# Generated by NetworkManager
search cable.virginm.net
nameserver 194.168.4.100
nameserver 194.168.8.100
[Eko@localhost ~]$ netstat -rn
```

```
Kernel IP routing table
Destination      Gateway          Genmask         Flags   MSS Window  irtt Iface
0.0.0.0          10.0.2.2        0.0.0.0         UG        0 0          0 enp0s3
10.0.2.0         0.0.0.0         255.255.255.0   U          0 0          0 enp0s3
192.168.122.0    0.0.0.0         255.255.255.0   U          0 0          0 virbr0
```

```
virbr0: flags=4099<UP,BROADCAST,MULTICAST> mtu 1500
    inet 192.168.122.1 netmask 255.255.255.0 broadcast 192.168.122.255
    ether 52:54:00:62:64:8a txqueuelen 1000 (Ethernet)
    RX packets 0 bytes 0 (0.0 B)
    RX errors 0 dropped 0 overruns 0 frame 0
    TX packets 0 bytes 0 (0.0 B)
    TX errors 0 dropped 0 overruns 0 carrier 0 collisions 0
```

	Windows	CentOS 7
Host Name	DESKTOP-6B97V67	localhost.localdomain
IPv4 Address	192.168.0.24	192.168.122.1
Subnet Mask	255.255.255.0	255.255.255.0
Default Gateway	192.168.0.1	0.0.0.0
DHCP Server	192.168.0.1	In Centos you cannot see DHCP address
DNS Servers	194.168.4.100 194.168.8.100	194.168.4.100 194.168.8.100
Physical Address	B8-9A-2A-DB-6C-B2	52:54:00:62:64:8a
NIC Manufacturer	Intel Corporate	No vendor exists(might be cause of using VirtualBox)

**Task 4 →****a)**

ping	Windows	CentOS 7
127.0.0.1	<i>Success!</i>  Avg rtt = <0ms	<i>Success!</i>  Avg rtt = 0.039ms

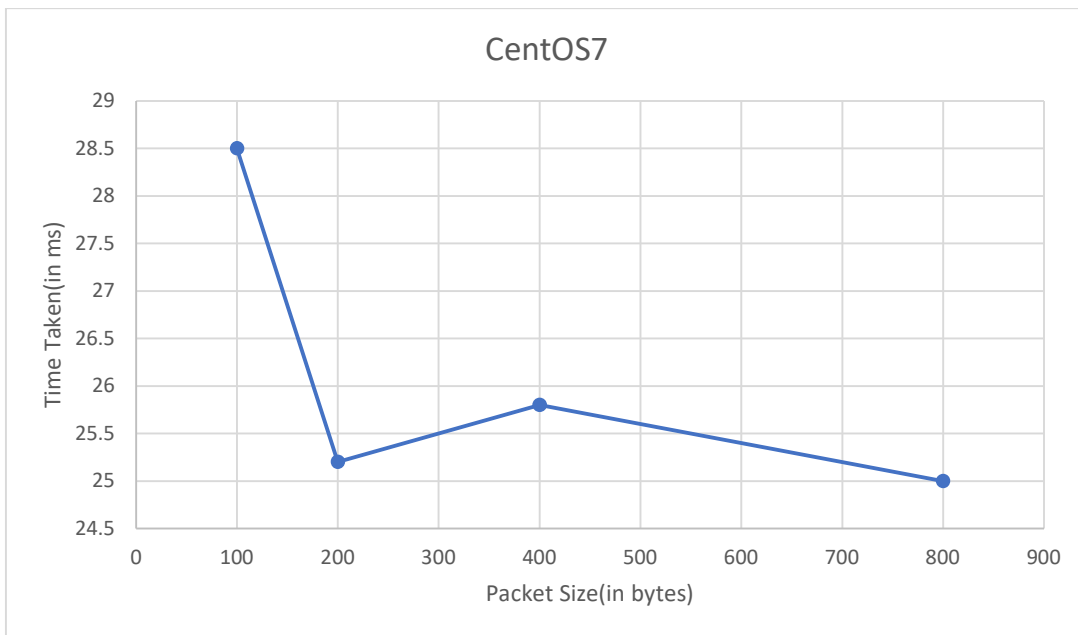
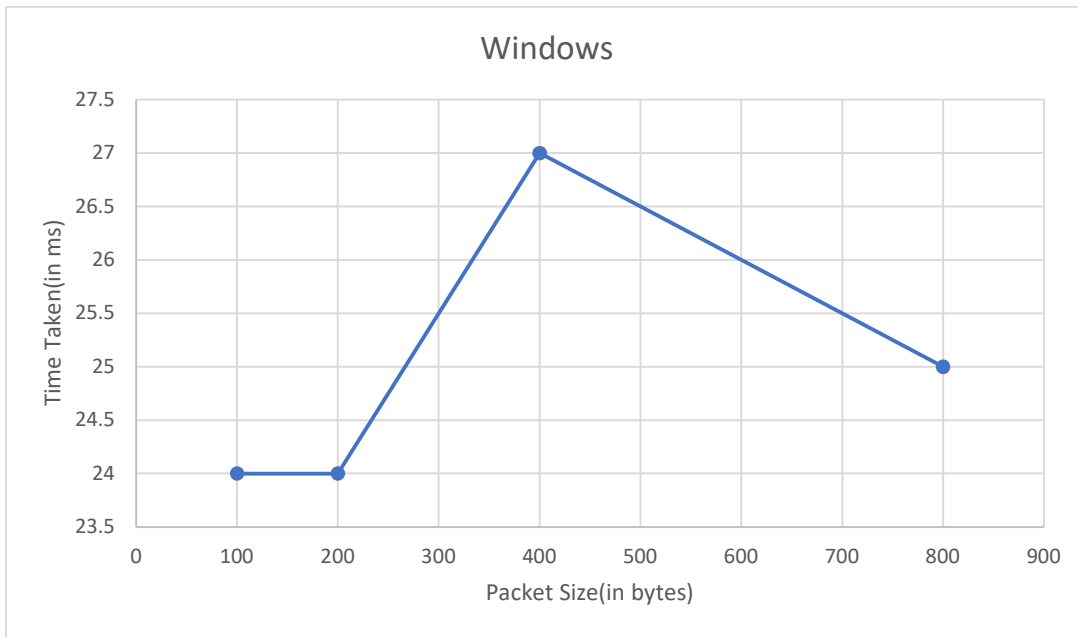
**b)**

ping	Windows	CentOS 7
www.gre.ac.uk	Avg rtt = 15ms	Avg rtt = 16.486ms
www.sky.com	Avg rtt = 17ms	Avg rtt = 15.698ms
www.virgin.co.uk	Avg rtt = 25ms	Avg rtt = 13.621ms
www.cisco.com	Avg rtt = 16ms	Avg rtt = 18.416ms
www.microsoft.com	Avg rtt = 18ms	Avg rtt = 18.115ms

**c)**

ping	Windows	CentOS 7
Australia	<a href="http://www.abc.net.au">www.abc.net.au</a> Avg rtt = 20ms	<a href="http://www.abc.net.au">www.abc.net.au</a> Avg rtt = 17.249
Canada	<a href="http://www.canada.ca">www.canada.ca</a> Avg rtt = 15ms	<a href="http://www.canada.ca">www.canada.ca</a> Avg rtt = 15.237ms
South Africa	<a href="http://www.gov.za">www.gov.za</a> Avg rtt = 186ms	<a href="http://www.gov.za">www.gov.za</a> Avg rtt = 189.370ms

**e)** 10 datagrams have been sent to [www.github.com](http://www.github.com) starting from 100 bytes each time we doubled the packet size. Such as, 100, 200, 400 and so on.



We were unable to send 1600bytes packet.

The largest packet we could be able to send was 1450 bytes.

We thought that as we double the size of the packet, the time taken to deliver would increase. However, it didn't happen. As we can see in both graphs the time taken to deliver a packet randomly increasing and decreasing.

By looking at the graphs, the network performance has increased and decreased randomly regardless of the size of the packets.



**Task 5 →**

# of hops	Windows	CentOS 7
Australia	www.abc.net.au  11 hops	www.abc.net.au  9 or more hops since it shows *** until 30
Canada	www.canada.ca  11 hops	www.canada.ca  9 or more hops since it shows *** until 30
South Africa	www.gov.za  17 hops	www.gov.za  15 or more hops since it shows *** until 30

**Task 6→****Windows:**

*netstat* command

```
Command Prompt
C:\Users\ekrem>netstat

Active Connections

Proto Local Address           Foreign Address         State
TCP    127.0.0.1:9010          DESKTOP-6B97V67:54477  ESTABLISHED
TCP    127.0.0.1:9100          DESKTOP-6B97V67:54471  ESTABLISHED
TCP    127.0.0.1:54471         DESKTOP-6B97V67:9100   ESTABLISHED
TCP    127.0.0.1:54477         DESKTOP-6B97V67:9010   ESTABLISHED
TCP    127.0.0.1:63963         DESKTOP-6B97V67:6468   SYN_SENT
TCP    172.19.8.109:49248      172.67.13.182:https    TIME_WAIT
TCP    172.19.8.109:49569      104.16.149.64:https    ESTABLISHED
TCP    172.19.8.109:50507      1hr25s34-in-f1:https   TIME_WAIT
TCP    172.19.8.109:52725      52.113.205.232:https    ESTABLISHED
TCP    172.19.8.109:54448      20.54.36.229:https      ESTABLISHED
TCP    172.19.8.109:54473      20.54.37.73:https       ESTABLISHED
TCP    172.19.8.109:54474      104.16.149.64:https     ESTABLISHED
TCP    172.19.8.109:54542      52.114.92.111:https     ESTABLISHED
TCP    172.19.8.109:54591      137.135.225.146:https   ESTABLISHED
TCP    172.19.8.109:54651      52.165.239.223:https    ESTABLISHED
TCP    172.19.8.109:54652      52.251.79.17:https      ESTABLISHED
TCP    172.19.8.109:54653      40.90.9.180:https       ESTABLISHED
TCP    172.19.8.109:54659      a104-95-180-10:https    CLOSE_WAIT
TCP    172.19.8.109:54772      52.111.236.10:https     ESTABLISHED
TCP    172.19.8.109:54777      52.111.236.10:https     ESTABLISHED
TCP    172.19.8.109:55007      165:https               ESTABLISHED
TCP    172.19.8.109:55328      52.137.110.235:https    FIN_WAIT_1
TCP    172.19.8.109:55369      server-143-204-170-17:https ESTABLISHED
TCP    172.19.8.109:55645      104.20.185.68:https     ESTABLISHED
TCP    172.19.8.109:55800      154.54.250.150:https    TIME_WAIT
```

## netstat -a command

```
Command Prompt - netstat -a
C:\Users\ekrem>netstat -a

Active Connections

Proto Local Address           Foreign Address         State
TCP    0.0.0.0:135             DESKTOP-6B97V67:0      LISTENING
TCP    0.0.0.0:445             DESKTOP-6B97V67:0      LISTENING
TCP    0.0.0.0:5040            DESKTOP-6B97V67:0      LISTENING
TCP    0.0.0.0:5357            DESKTOP-6B97V67:0      LISTENING
TCP    0.0.0.0:7680            DESKTOP-6B97V67:0      LISTENING
TCP    0.0.0.0:49664           DESKTOP-6B97V67:0      LISTENING
TCP    0.0.0.0:49665           DESKTOP-6B97V67:0      LISTENING
TCP    0.0.0.0:49666           DESKTOP-6B97V67:0      LISTENING
TCP    0.0.0.0:49667           DESKTOP-6B97V67:0      LISTENING
TCP    0.0.0.0:49668           DESKTOP-6B97V67:0      LISTENING
TCP    0.0.0.0:49674           DESKTOP-6B97V67:0      LISTENING
TCP    127.0.0.1:9010          DESKTOP-6B97V67:0      LISTENING
TCP    127.0.0.1:9010          DESKTOP-6B97V67:54477  ESTABLISHED
TCP    127.0.0.1:9080          DESKTOP-6B97V67:0      LISTENING
TCP    127.0.0.1:9100          DESKTOP-6B97V67:0      LISTENING
TCP    127.0.0.1:9100          DESKTOP-6B97V67:54471  ESTABLISHED
TCP    127.0.0.1:9180          DESKTOP-6B97V67:0      LISTENING
TCP    127.0.0.1:45654         DESKTOP-6B97V67:0      LISTENING
TCP    127.0.0.1:49210         DESKTOP-6B97V67:0      LISTENING
TCP    127.0.0.1:54471         DESKTOP-6B97V67:9100   ESTABLISHED
TCP    127.0.0.1:54477         DESKTOP-6B97V67:9010   ESTABLISHED
TCP    172.19.8.109:139        DESKTOP-6B97V67:0      LISTENING
TCP    172.19.8.109:52725      52.113.205.232:https    ESTABLISHED
TCP    172.19.8.109:54448      20.54.36.229:https      ESTABLISHED
TCP    172.19.8.109:54473      20.54.37.73:https       ESTABLISHED
TCP    172.19.8.109:54542      52.114.92.111:https     ESTABLISHED
TCP    172.19.8.109:54591      137.135.225.146:https   ESTABLISHED
TCP    172.19.8.109:54651      52.165.239.223:https    ESTABLISHED
TCP    172.19.8.109:54652      52.251.79.17:https      ESTABLISHED
TCP    172.19.8.109:54653      40.90.9.180:https       ESTABLISHED
TCP    172.19.8.109:54659      a104-95-180-10:https    CLOSE_WAIT
TCP    172.19.8.109:54772      52.111.236.10:https     ESTABLISHED
TCP    172.19.8.109:54777      52.111.236.10:https     ESTABLISHED
TCP    172.19.8.109:55007      165:https               ESTABLISHED
TCP    172.19.8.109:55369      server-143-204-170-17:https TIME_WAIT
TCP    172.19.8.109:58039      a92-122-165-153:https   CLOSE_WAIT
TCP    172.19.8.109:58063      rom30r3a:https          ESTABLISHED
TCP    172.19.8.109:58071      52.155.161.106:https    CLOSE_WAIT
TCP    172.19.8.109:58080      wg-in-f108:imaps        CLOSE_WAIT
TCP    172.19.8.109:58082      1hr25s25-in-f10:https   CLOSE_WAIT
TCP    172.19.8.109:58087      52.97.202.82:https      ESTABLISHED
```

## netstat -r command

```

C:\Users\ekrem>netstat -r
=====
Interface List
=====
15...80 fa 5b 83 1f af .....Realtek PCIe GbE Family Controller
13...0a 00 27 00 00 0d .....VirtualBox Host-Only Ethernet Adapter
5...b8 9a 2a db 6c b3 .....Microsoft Wi-Fi Direct Virtual Adapter
16...ba 9a 2a db 6c b2 .....Microsoft Wi-Fi Direct Virtual Adapter #2
10...b8 9a 2a db 6c b2 .....Intel(R) Wi-Fi 6 AX200 160MHz
1.....Software Loopback Interface 1
=====

IPv4 Route Table
=====
Active Routes:
=====
Network Destination        Netmask          Gateway           Interface        Metric
0.0.0.0                    0.0.0.0          172.19.8.1        172.19.8.109     50
127.0.0.0                  255.0.0.0        On-link           127.0.0.1        331
127.0.0.1                  255.255.255.255  On-link           127.0.0.1        331
127.255.255.255            255.255.255.255  On-link           127.0.0.1        331
172.19.8.0                  255.255.248.0    On-link           172.19.8.109     306
172.19.8.109                255.255.255.255  On-link           172.19.8.109     306
172.19.15.255               255.255.255.255  On-link           172.19.8.109     306
192.168.56.0                 255.255.255.0    On-link           192.168.56.1     281
192.168.56.1                255.255.255.255  On-link           192.168.56.1     281
192.168.56.255              255.255.255.255  On-link           192.168.56.1     281
224.0.0.0                   240.0.0.0        On-link           127.0.0.1        331
224.0.0.0                   240.0.0.0        On-link           192.168.56.1     281
224.0.0.0                   240.0.0.0        On-link           172.19.8.109     306
255.255.255.255             255.255.255.255  On-link           127.0.0.1        331
255.255.255.255             255.255.255.255  On-link           192.168.56.1     281
255.255.255.255             255.255.255.255  On-link           172.19.8.109     306
=====
Persistent Routes:
None

IPv6 Route Table
=====
Active Routes:
=====
If Metric Network Destination      Gateway
1 331 ::1/128               On-link
13 281 fe80::/64             On-link
10 306 fe80::/64             On-link
13 281 fe80::5989:a0ab:be1c:5821/128
On-link
10 306 fe80::fd33:ce70:2fb0:838d/128
On-link
1 331 ff00::/8              On-link
13 281 ff00::/8              On-link
10 306 ff00::/8              On-link
=====
Persistent Routes:
None

```

*netstat -s* command

Command Prompt

C:\Users\ekrem>netstat -s

#### IPv4 Statistics

Packets Received	= 10421490
Received Header Errors	= 0
Received Address Errors	= 12
Datagrams Forwarded	= 0
Unknown Protocols Received	= 5
Received Packets Discarded	= 20456
Received Packets Delivered	= 20228787
Output Requests	= 12072747
Routing Discards	= 0
Discarded Output Packets	= 11923
Output Packet No Route	= 108
Reassembly Required	= 277
Reassembly Successful	= 106
Reassembly Failures	= 0
Datagrams Successfully Fragmented	= 38
Datagrams Failing Fragmentation	= 0
Fragments Created	= 76

#### IPv6 Statistics

Packets Received	= 11527
Received Header Errors	= 0
Received Address Errors	= 50
Datagrams Forwarded	= 0
Unknown Protocols Received	= 0
Received Packets Discarded	= 92
Received Packets Delivered	= 26225
Output Requests	= 20192
Routing Discards	= 0
Discarded Output Packets	= 0
Output Packet No Route	= 0
Reassembly Required	= 6
Reassembly Successful	= 3
Reassembly Failures	= 0
Datagrams Successfully Fragmented	= 0
Datagrams Failing Fragmentation	= 0
Fragments Created	= 0

#### ICMPv4 Statistics

	Received	Sent
Messages	1752	3060
Errors	0	0
Destination Unreachable	1361	2641
Time Exceeded	177	4
Parameter Problems	0	0
Source Quenches	0	0
Redirects	0	0
Echo Replies	209	4
Echos	5	411
Timestamps	0	0
Timestamp Replies	0	0
Address Masks	0	0
Address Mask Replies	0	0
Router Solicitations	0	0
Router Advertisements	0	0

#### ICMPv6 Statistics

	Received	Sent
Messages	3055	516
Errors	0	0
Destination Unreachable	0	0
Packet Too Big	0	0
Time Exceeded	0	0
Parameter Problems	0	0
Echos	42	0
Echo Replies	0	0
MLD Queries	737	0
MLD Reports	0	0
MLD Dones	0	0
Router Solicitations	0	175
Router Advertisements	0	0
Neighbor Solicitations	178	104
Neighbor Advertisements	2098	237
Redirects	0	0
Router Renumberings	0	0

#### TCP Statistics for IPv4

Active Opens	= 73126
Passive Opens	= 325
Failed Connection Attempts	= 43928
Reset Connections	= 7216
Current Connections	= 41
Segments Received	= 11924376
Segments Sent	= 3219074
Segments Retransmitted	= 0

#### TCP Statistics for IPv6

Active Opens	= 129
Passive Opens	= 34
Failed Connection Attempts	= 432
Reset Connections	= 2
Current Connections	= 0
Segments Received	= 2035
Segments Sent	= 897
Segments Retransmitted	= 0

#### UDP Statistics for IPv4

Datagrams Received	= 8834071
No Ports	= 20448
Receive Errors	= 3
Datagrams Sent	= 8314351

#### UDP Statistics for IPv6

Datagrams Received	= 30424
No Ports	= 8
Receive Errors	= 0
Datagrams Sent	= 15596

CentOS7:

## netstat

```
[Eko@localhost ~]$ netstat
Active Internet connections (w/o servers)
Proto Recv-Q Send-Q Local Address           Foreign Address         State
tcp        0      0 localhost.localdo:34918 lhr48s28-in-f1.1e:https TIME_WAIT
tcp        0      0 localhost.localdo:34906 lhr48s28-in-f1.1e:https TIME_WAIT
tcp        0      0 localhost.localdo:35766 5.180.211.190:http      TIME_WAIT
tcp        0      0 localhost.localdo:59494 lhr48s09-in-f10.1:https TIME_WAIT
tcp        0      0 localhost.localdo:59014 5.153.223.4.ip.sta:http TIME_WAIT
tcp        0      0 localhost.localdo:59012 5.153.223.4.ip.sta:http TIME_WAIT
tcp        32      0 localhost.localdo:37238 oscp-router03.gno:https CLOSE_WAIT
tcp        0      0 localhost.localdo:52484 lhr25s34-in-f13.1:https TIME_WAIT
tcp        0      0 localhost.localdo:59026 5.153.223.4.ip.sta:http TIME_WAIT
tcp        0      0 localhost.localdo:35780 5.180.211.190:http      TIME_WAIT
tcp        0      0 localhost.localdo:40074 lhr48s08-in-f10.1:https TIME_WAIT
tcp        0      0 localhost.localdo:41322 ams10s22-in-f10.1:https TIME_WAIT
tcp        0      0 localhost.localdo:41288 ams10s22-in-f10.1:https TIME_WAIT
tcp        0      0 localhost.localdo:45064 lhr25s31-in-f10.1:https TIME_WAIT
tcp        0      0 localhost.localdo:45048 lhr25s33-in-f10.1:https ESTABLISHED
tcp        0      0 localhost.localdo:34908 lhr48s28-in-f1.1e:https TIME_WAIT
tcp        0      0 localhost.localdo:35768 5.180.211.190:http      TIME_WAIT
tcp        0      0 localhost.localdo:37938 lhr25s32-in-f10.1:https TIME_WAIT
tcp        0      0 localhost.localdo:42962 ec2-34-210-104-24:https ESTABLISHED
tcp        0      0 localhost.localdo:35786 5.180.211.190:http      TIME_WAIT
tcp        0      0 localhost.localdo:59024 5.153.223.4.ip.sta:http TIME_WAIT
Active UNIX domain sockets (w/o servers)
Proto RefCnt Flags       Type       State      I-Node   Path
```

## netstat -a

```
[Eko@localhost ~]$ netstat -a
Active Internet connections (servers and established)
Proto Recv-Q Send-Q Local Address           Foreign Address         State
tcp        0      0 0.0.0.0:sunrpc          0.0.0.0:*               LISTEN
tcp        0      0 localhost.locald:domain 0.0.0.0:*               LISTEN
tcp        0      0 0.0.0.0:ssh             0.0.0.0:*               LISTEN
tcp        0      0 localhost:ipp           0.0.0.0:*               LISTEN
tcp        0      0 localhost:smtp          0.0.0.0:*               LISTEN
tcp6       0      0 [::]:sunrpc             [::]:*                  LISTEN
tcp6       0      0 [::]:ssh                [::]:*                  LISTEN
tcp6       0      0 localhost:ipp           [::]:*                  LISTEN
tcp6       0      0 localhost:smtp          [::]:*                  LISTEN
udp        0      0 0.0.0.0:43466           0.0.0.0:*               LISTEN
udp        0      0 localhost.locald:domain 0.0.0.0:*               LISTEN
udp        0      0 0.0.0.0:bootps          0.0.0.0:*               LISTEN
udp        0      0 0.0.0.0:bootpc          0.0.0.0:*               LISTEN
udp        0      0 0.0.0.0:sunrpc          0.0.0.0:*               LISTEN
udp        0      0 localhost:323           0.0.0.0:*               LISTEN
udp        0      0 0.0.0.0:ideafarm-panic 0.0.0.0:*               LISTEN
udp        0      0 0.0.0.0:mdns             0.0.0.0:*               LISTEN
udp6       0      0 [::]:sunrpc             [::]:*                  LISTEN
udp6       0      0 localhost:323           [::]:*                  LISTEN
udp6       0      0 [::]:ideafarm-panic     [::]:*                  LISTEN
raw6       0      0 [::]:ipv6-icmp          [::]:*                  LISTEN
Active UNIX domain sockets (servers and established)
```

## netstat -r

```
[Eko@localhost ~]$ netstat -r
Kernel IP routing table
Destination Gateway Genmask Flags MSS Window irtt Iface
default gateway 0.0.0.0 UG 0 0 0 enp0s3
10.0.2.0 0.0.0.0 255.255.255.0 U 0 0 0 enp0s3
192.168.122.0 0.0.0.0 255.255.255.0 U 0 0 0 virbr0
```

## netstat -s

```
[Eko@localhost ~]$ netstat -s
Ip:
    672 total packets received
    0 forwarded
    0 incoming packets discarded
    625 incoming packets delivered
    669 requests sent out
    16 outgoing packets dropped
Icmp:
    39 ICMP messages received
    0 input ICMP message failed.
    ICMP input histogram:
        destination unreachable: 34
        echo replies: 5
    39 ICMP messages sent
    0 ICMP messages failed
    ICMP output histogram:
        destination unreachable: 34
        echo request: 5
IcmpMsg:
    InType0: 5
    InType3: 34
    OutType3: 34
    OutType8: 5
Tcp:
    23 active connections openings
```

## References

Hunter, S., 2021. *How do computers communicate with each other?*. [Online]  
Available at: <https://levelup.gitconnected.com/how-do-computers-communicate-with-each-other-50636acbeb4c>  
[Accessed 26 10 2021].