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IT Lab 2

With help of ping, check if you are connected to other systems of your network and find the route to connect to that system using traceroute. List all the processes which are using ports for TCP protocol.

Ping (on my android device on the same network):

```
> >>> ping 192.168.1.55
PING 192.168.1.55 (192.168.1.55) 56(84) bytes of data.
64 bytes from 192.168.1.55: icmp_seq=1 ttl=64 time=4.64 ms
64 bytes from 192.168.1.55: icmp_seq=2 ttl=64 time=20.5 ms
64 bytes from 192.168.1.55: icmp_seq=3 ttl=64 time=99.8 ms
64 bytes from 192.168.1.55: icmp_seq=4 ttl=64 time=326 ms
64 bytes from 192.168.1.55: icmp_seq=4 ttl=64 time=326 ms (DUP!)
64 bytes from 192.168.1.55: icmp_seq=4 ttl=64 time=326 ms (DUP!)
64 bytes from 192.168.1.55: icmp_seq=4 ttl=64 time=327 ms (DUP!)
64 bytes from 192.168.1.55: icmp_seq=4 ttl=64 time=328 ms (DUP!)
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64 bytes from 192.168.1.55: icmp_seq=4 ttl=64 time=329 ms (DUP!)
^C
--- 192.168.1.55 ping statistics ---
4 packets transmitted, 4 received, +12 duplicates, 0% packet loss, time 3005ms
rtt min/avg/max/mdev = 4.644/274.259/329.422/113.186 ms
> >>> █
```

Route to Connect to that system using traceroute (for Linux):

```
> >>> traceroute 192.168.1.55
traceroute to 192.168.1.55 (192.168.1.55), 30 hops max, 60 byte packets
 1 192.168.1.55 (192.168.1.55) 913.664 ms 917.149 ms 913.964 ms
> >>> █
```

List all the process which are using ports for TCP protocol:

```
Terminal
~ >>> netstat -t
Active Internet connections (w/o servers)
Proto Recv-Q Send-Q Local Address           Foreign Address          State
tcp      0      0 Firebolt:44468          199.232.22.137:https     ESTABLISHED
tcp      0      0 Firebolt:33578          ec2-3-227-144-230:https  ESTABLISHED
tcp      0      0 Firebolt:39928          172.65.247.109:https     ESTABLISHED
tcp      0      0 Firebolt:49626          ec2-34-213-44-137:https  ESTABLISHED
tcp      0      0 Firebolt:39912          172.65.247.109:https     ESTABLISHED
tcp      0      0 Firebolt:57650          ec2-54-76-29-155.:https  ESTABLISHED
tcp      76      0 Firebolt:39484          199.232.22.137:https     CLOSE_WAIT
tcp      0      0 Firebolt:47456          del12s01-in-f14.1:https  ESTABLISHED
tcp      0      0 Firebolt:33052          172.65.63.133:https      ESTABLISHED
tcp      0      0 Firebolt:53938          server-13-224-22-:https  ESTABLISHED
tcp      0      0 Firebolt:56636          aeab55d76dd13c9bb:https  ESTABLISHED
tcp      0      0 Firebolt:55412          192.168.1.55:xmsg        ESTABLISHED
tcp      0      0 Firebolt:43452          ec2-52-42-63-10.u:https  ESTABLISHED
tcp      0      0 Firebolt:60924          104.18.41.98:https       ESTABLISHED
tcp      0      0 Firebolt:49416          104.16.149.64:https      ESTABLISHED
tcp      0      0 Firebolt:37544          nrt12s12-in-f206.:https  ESTABLISHED
tcp      0      0 Firebolt:42490          ec2-44-241-228-25:https  ESTABLISHED
tcp      0      0 Firebolt:49414          104.16.149.64:https      ESTABLISHED
tcp      0      0 Firebolt:59222          del12s02-in-f3.1e:https  ESTABLISHED
tcp      0      0 Firebolt:50086          103.95.84.48:https       ESTABLISHED
~ >>> 
```