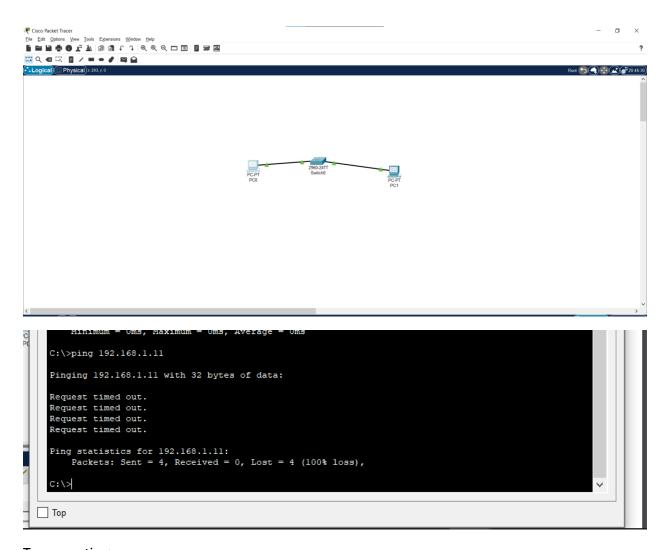
Troubleshoot Ethernet Communication with ping and traceroute -> Using cisco packet tracer:

- Create a simple LAN setup with two Linux machines connected via a switch.
- Ping from one machine to the other. If it fails, use if config to ensure the IP addresses are configured correctly.
- Use traceroute to identify where the packets are being dropped if the ping fails



Tracerouting

```
C:\>tracert 192.178.1.11
Tracing route to 192.178.1.11 over a maximum of 30 hops:
                                       Request timed out.
                                       Request timed out.
                                      Request timed out.
                                     Request timed out.
                                     Request timed out.
Request timed out.
  6
                                     Request timed out.
                                     Request timed out.
Request timed out.
Request timed out.
  8
                                      Request timed out.
Request timed out.
  12
                                      Request timed out.
  13
  14
                                      Request timed out.
                                        Request timed out.
                                      Request timed out.
                                      Request timed out.
                                      Request timed out.
Request timed out.
  18
  19
                                      Request timed out.
  20
                                      Request timed out.
  21
                                        Request timed out.
  22
                                      Request timed out.
  23
                                      Request timed out.
  24
  25
                                        Request timed out.
                                      Request timed out.
  26
                                      Request timed out.
                                        Request timed out.
                                        Request timed out.
  29
  30
                                        Request timed out.
Trace complete.
C:\>
```

Ping

```
Trace complete.

C:\>ping 192.168.1.20

Pinging 192.168.1.20 with 32 bytes of data:

Reply from 192.168.1.20: bytes=32 time<lms TTL=128

Reply from 192.168.1.20: bytes=32 time=7ms TTL=128

Reply from 192.168.1.20: bytes=32 time<lms TTL=128

Reply from 192.168.1.20: bytes=32 time<lms TTL=128

Ping statistics for 192.168.1.20:

Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:

Minimum = 0ms, Maximum = 7ms, Average = 1ms

C:\>
```