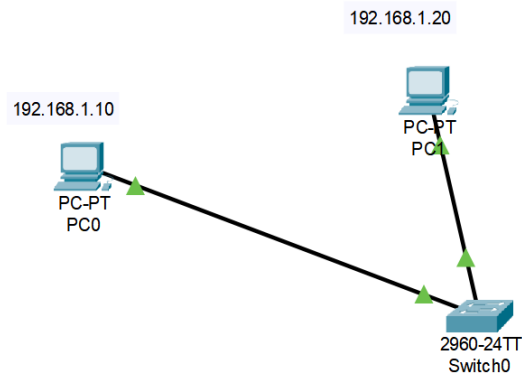


#### Q4. Troubleshoot Ethernet Communication with ping and traceroute -> Using cisco packet tracer



ping is successful and tracert show one direct hop to PC1.

```
PC0
Physical Config Desktop Programming Attributes
Command Prompt

Cisco Packet Tracer PC Command Line 1.0
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<1ms TTL=128
Reply from 192.168.1.20: bytes=32 time<1ms TTL=128
Reply from 192.168.1.20: bytes=32 time<1ms TTL=128
Reply from 192.168.1.20: bytes=32 time<1ms 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 = 0ms, Average = 0ms

C:\>tracert 192.168.1.20

Tracing route to 192.168.1.20 over a maximum of 30 hops:

  1  0 ms      0 ms      0 ms      192.168.1.20

Trace complete.

C:\>
```

The screenshot shows the 'Desktop' tab of PC0 in Cisco Packet Tracer. The 'Command Prompt' window displays the results of a ping and traceroute command. The ping command 'ping 192.168.1.20' was successful, showing four replies with 0ms round trip times. The traceroute command 'tracert 192.168.1.20' also completed successfully, showing a single hop to the destination IP 192.168.1.20.