LINUX NETWORKING MODULE 3 AND 4 ASSESSMENT SOLUTIONS

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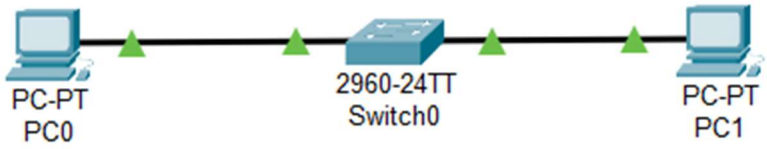
5.Create a simple LAN setup with two machines connected via a switch.

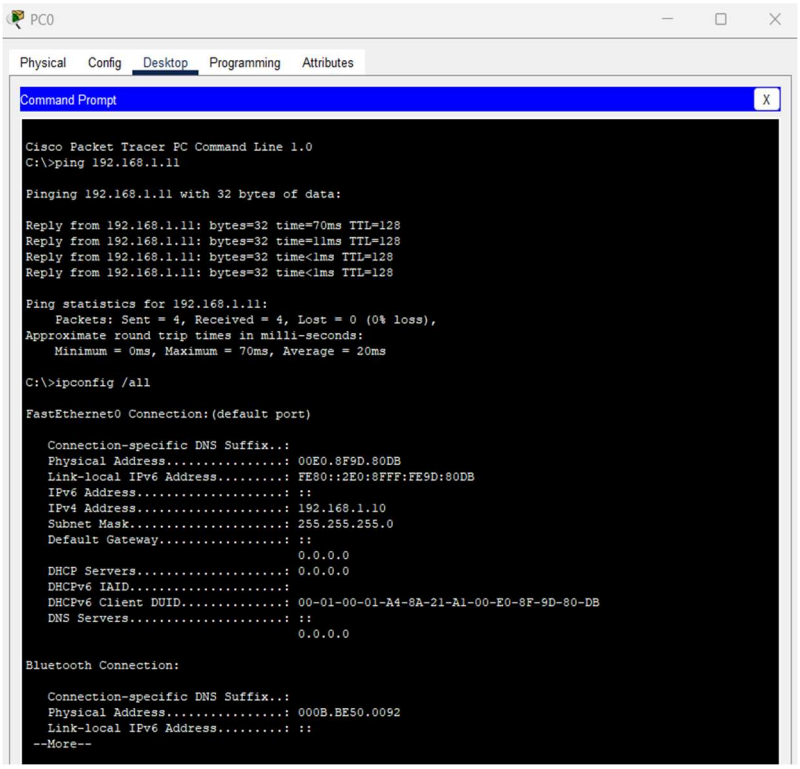
6.Ping from one machine to the other. If it fails, use ifconfig to ensure the IP addresses are configured correctly.

7.Use traceroute to identify where the packets are being dropped if the ping fails



Devices Used

- 2 PCs (PC0 and PC1) (IP addresses: 192.168.1.10 and 192.168.1.11) (
- 1 Switch (Switch0 2960-24TT)
- Copper Straight-Through Cables



```
C:\>tracert 192.168.1.11

Tracing route to 192.168.1.11 over a maximum of 30 hops:

  1    1 ms      0 ms      3 ms      192.168.1.11
```

```
C:\>arp -a
  Internet Address      Physical Address      Type
  192.168.1.11          00d0.5804.ed18        dynamic
```

If Static IP configured is changed and Traceroute is applied:

```
C:\>tracert 192.168.1.11

Tracing route to 192.168.1.11 over a maximum of 30 hops:

  1    *         *         *         Request timed out.
  2    *         *         *         Request timed out.
  3    *         *         *         Request timed out.
```

At this scenarios ipconfig can be used to identify the IP address of the PC to be connected and can be trouble shooted to ensure connectivity.