

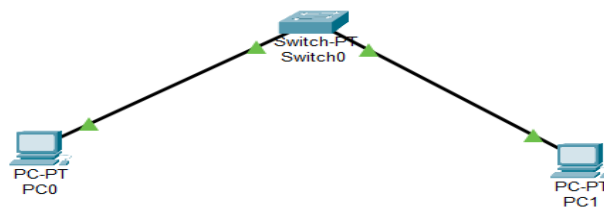
5. Create a simple LAN setup with two machines connected via a switch.

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

1)

Network topology:



Devices:

Pc0 (IP ADDRESS: 192.168.1.2)

Pc1 (IP ADDRESS: 192.168.1.3)

PING COMMAND:

```
PC0
Physical Config Desktop Programming Attributes
Command Prompt
Cisco Packet Tracer PC Command Line 1.0
C:\>ping 192.168.1.3

Pinging 192.168.1.3 with 32 bytes of data:

Reply from 192.168.1.3: bytes=32 time<1ms TTL=128
Reply from 192.168.1.3: bytes=32 time<1ms TTL=128
Reply from 192.168.1.3: bytes=32 time<1ms TTL=128
Reply from 192.168.1.3: bytes=32 time<1ms TTL=128

Ping statistics for 192.168.1.3:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 0ms, Maximum = 0ms, Average = 0ms

C:\>ipconfig /all

FastEthernet0 Connection: (default port)

    Connection-specific DNS Suffix...: 
    Physical Address. . . . .: 0002.4A76.0250
    Link-local IPv6 Address . . . . .: FE80::202:4AFF:FE76:250
    IPv6 Address. . . . .: ::
    IPv4 Address. . . . .: 192.168.1.2
    Subnet Mask . . . . .: 255.255.255.0
    Default Gateway . . . . .: ::

    DHCP Servers . . . . .: 0.0.0.0
    DHCPv6 IAID . . . . .: 
    DHCPv6 Client DUID. . . . .: 00-01-00-01-45-88-96-E6-00-02-4A-76-02-50
    DNS Servers . . . . .: ::
    . . . . .: 0.0.0.0

Bluetooth Connection:

    Connection-specific DNS Suffix...: 
    Physical Address. . . . .: 0001.976E.B99D
    Link-local IPv6 Address . . . . .: ::
    --More--
```

USING TRACEROUTE :

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C:\>tracert 192.168.1.3

Tracing route to 192.168.1.3 over a maximum of 30 hops:

  1  0 ms    0 ms    0 ms    192.168.1.3

Trace complete.
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USING IPCONFIG:

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C:\>ipconfig

FastEthernet0 Connection: (default port)

    Connection-specific DNS Suffix...:
    Link-local IPv6 Address . . . . .: FE80::202:4AFF:FE76:250
    IPv6 Address . . . . . : ::
    IPv4 Address . . . . . : 192.168.1.2
    Subnet Mask . . . . . : 255.255.255.0
    Default Gateway . . . . . : ::
                                0.0.0.0

Bluetooth Connection:

    Connection-specific DNS Suffix...:
    Link-local IPv6 Address . . . . .: ::
    IPv6 Address . . . . . : ::
    IPv4 Address . . . . . : 0.0.0.0
    Subnet Mask . . . . . : 0.0.0.0
    Default Gateway . . . . . : ::
                                0.0.0.0
```