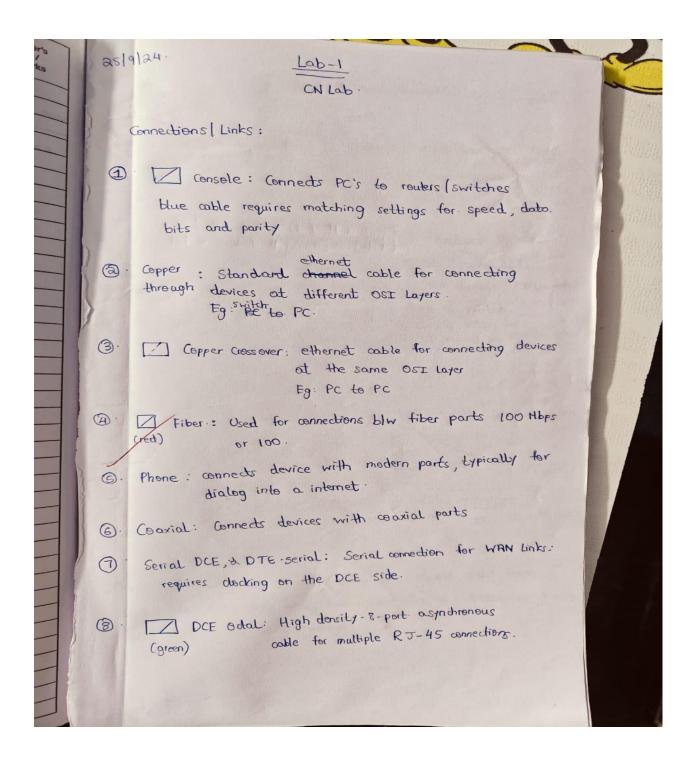
PC to Server:

Dote Page
PC to Server
Aim: To set up a point to point blue a PC and a Server facilitating direct Communication to Observe the date exchange.
Topologie:
PC-PT Server-PT
PCO Serror O
1000.1 10.0.0.2
Observations Direct communication allows PC to commonwell with server, which is typically in small networks for tasks such as fill showing server request or techniq server reponses to client queue.

Hubs and Switches:

Create a topology and simulate sending a simple PDU from source to destination using hub and switch as connecting devices and demonstrate ping message



Week-1 Switch & Hub.

Greated a network. by selecting end devices. Add. a generic server & PC to the workspace, and used a copper cross over dable.

Sent a simple text message in realtime

To demonstrate the transmission for simple PDU blw 2 devices connected using a hub is switch Create a topology & simulate sending a simple POU, from

Source to destination using hub a switch as connecting devices demonstrate pi demonstrate ping mig Huba of 8 Mo rat port 10 up

nection

resstul

IP 192-180-160-1124

generic PC1081

trial mort addlemate IP: 192.180.160.2/24

State on the source PCO a destriction PC & reade a topology of simulate sending a simple PDU from source to destination using hub and switche as connecting device and demonstrate ping message.

- 3) Connect the 3 PCD 12 to switch parts using comper straight through. Had twhood (time stop landing)
- 4) Setup devices by praviding ip's goto config -> fost ethernet -> input ilp. 21 Jall 509 al

IP address: 192.180.160.1

IP address: 192.180.160.2

IP address: 192.180,160.13.0 1111 800 910

- 5) Switch to simulation made choose visible event/protocol-
- Add PDU to source and destination to PCZ:
- 2) Ran simulation outo capture | play. ICMP (ping) are sent to only correct device with correct mac.
- 8). Result switch uses MAC address to intelligently forward. ping (ICMP) packets to the destination (PCQ) rather broadcasting to all connected devices like a hub would

Switches.

- Direct -> MAC.
- Intelligent.
- Works in full duplex
- Only on Multiple devices only one device con can send data at same time

Hubs.

Brodeast model.

Not intelligent.

Works in half duplex

send data at a time

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Result: great deplace of 10098 of bonnes (8 > From PCO to paul p1 | since it is hub the PDU (protocol data unit). broadcast happens to all connected to a hub. > return msgl PDU in sent only intended PC will from PCQ to PCO that is receiver. > But only PC2 will accept the PDU & hence X mark on PI John John allier seeds about address of the * Connecting PC to switch: b but some of 019 660 Andgor of io milationis and of the sie (pring) THOT general fine flored (8 generic , PCO PCI bonniecalla ed pollachonel 9 192.180.160.3/24 192-180-160-1124 1/12.180.160.2/24 John Jambors 1 Observation: Trop Mohn 1611 1811 1). Open cisco packet tracer a) Add device to be the second to the second switch -> network devices Network devices - (generic switch).

end devices

generic PC.

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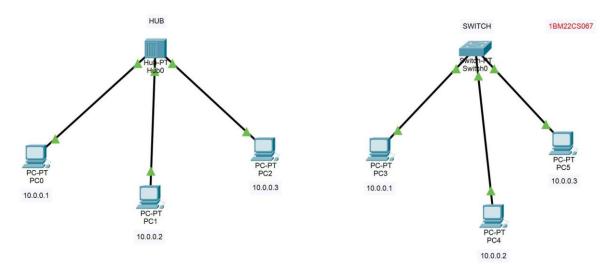
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Command Prompt X

```
Cisco Packet Tracer PC Command Line 1.0
C:\>ping 10.0.0.3
Pinging 10.0.0.3 with 32 bytes of data:
Reply from 10.0.0.3: bytes=32 time<1ms TTL=128
Ping statistics for 10.0.0.3:
   Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
    Minimum = 0ms, Maximum = 0ms, Average = 0ms
C:\>ping 10.0.0.2
Pinging 10.0.0.2 with 32 bytes of data:
Reply from 10.0.0.2: bytes=32 time<1ms TTL=128
Ping statistics for 10.0.0.2:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
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Reply from 10.0.0.2: bytes=32 time<1ms TTL=128
Ping statistics for 10.0.0.2:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
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