DATE: 16/6/23

LAB - 2

Q. Create a topology & simulate sending a simple PDU from src → destination using simple hub & switch as connecting domain

Step 1: drag and drop a generic hub PT on the work-space

Step 2: drag and drop 6 pc's & configure the ip addresses for each of the 6 pcs and make the ip 10.0.0.1 – 10.0.0.6

Step 3: Connect the pc's to the hub & transmit data blw them

Step 4: drag & drop the switch and repeat the same

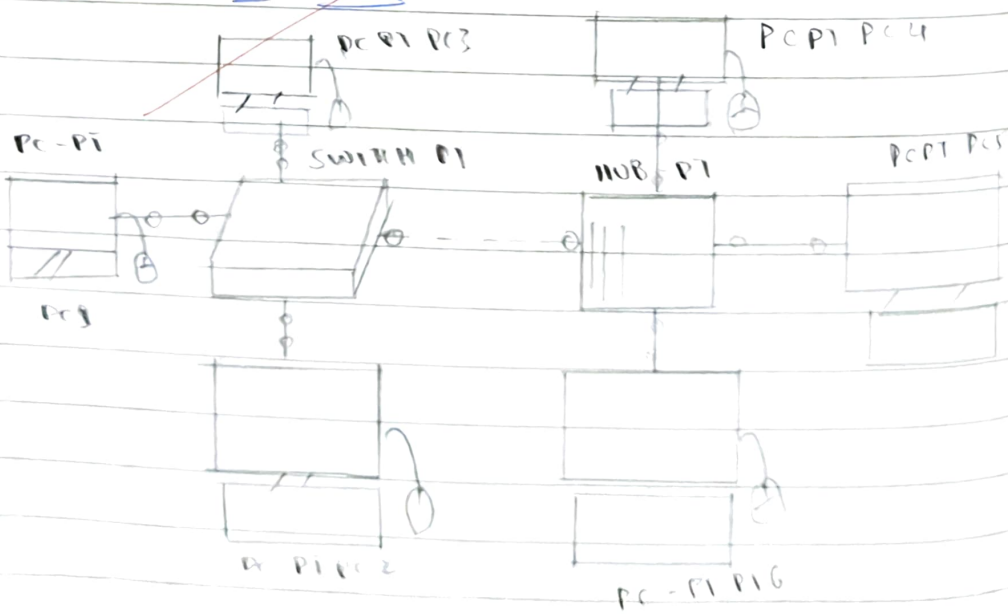
Step 5: test package transmission by sending PDU blw the PC's the process is a success

Step 6: Connect the hub & the switch on & transmit data blw them the process succeeds

Step 7: Transmit data blw hub pc & switch pc and try again toggling the switch on & off

from ip 10.0.0.1 → 10.0.0.5.

diagram of topology



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Command Promp Pinging a Pc

Pc > Ping 10.0.0.5

Pinging 10.0.0.5 with 32 bytes of data :

Reply from 10.0.0.5 : bytes = 32 time = 0ms TTL = 120
Reply from 10.0.0.5 : bytes = 32 time = 0ms TTL = 120
Reply from 10.0.0.5 : bytes = 32 time = 0ms TTL = 120
Reply from 10.0.0.05 : bytes = 32 time = 0ms TTL = 120

Ping statistics for 10.0.0.5 :
packets: sent = 4, Received = 4, lost = 0 (0% loss),
Approximate round trip times in milli-seconds :
Minimum = 0ms, Maximum = 0ms, Average = 0ms

when switch is turned off

Pinging 10.0.0.4 with 32 bytes of data :

Request timed out.
Request timed out.
Request timed out
Request timed out.

Ping statistics for 10.0.0.4 :
Packets : sent = 4, received = 0, lost = 4 (100% loss),

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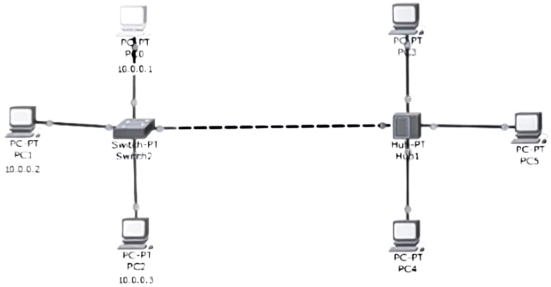

PC0

Physical Config Desktop Custom Interface

Command Prompt

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Pinging 10.0.0.4 with 32 bytes of data:

Request timed out.
Request timed out.
Request timed out.
Request timed out.

Ping statistics for 10.0.0.4:
    Packets: Sent = 4, Received = 0, Lost = 4 (100% loss),

PC>pin 10.0.0.5
Invalid Command.

PC>ping 10.0.0.5

Pinging 10.0.0.5 with 32 bytes of data:

Reply from 10.0.0.5: bytes=32 time=0ms TTL=128
Reply from 10.0.0.5: bytes=32 time=0ms TTL=128
Reply from 10.0.0.5: bytes=32 time=0ms TTL=128
Reply from 10.0.0.5: bytes=32 time=0ms TTL=128

Ping statistics for 10.0.0.5:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
    Minimum = 0ms, Maximum = 0ms, Average = 0ms

PC>
```