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WEEK-2

- Create a topology & simulate sending a simple PDU from source to destination using ~~sig~~ simple hub & switch as connecting domains.

Steps:

→ Drag drop 1 hub (generic), 1 switch (generic) & 6 PC (generic). Connect 3 PCs to each, to hub & switch. Label their IP addresses in the ethernet configuration of the PCs.

→ In simulation, send PDU from 1 pc to another
① within the hub (keeping it on), then observe the simulation for successful transmission. ping

→ Next case, send PDU from 1 pc to another
② within the switch (keeping it on), & observe simulation for success. Repeat keeping it off & observe fail.

→ Connect the hub & switch & send PDU
③ from 1 pc in hub to another in switch then select "auto capture/play" as before to observe for success. Repeat keeping switch "off" in physical, observe for fail. For both cases open command prompt in source PC.

→ In the source PC type; ping 10.0.0.6 (IP address of destination PC). write down observations.

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- OUTPUT-

Hub ON switch ON

Packet Tracer PC Command Line 1.0
PC> ping 10.0.0.6
pinging 10.0.0.6 with 32 bytes of data:

Reply from 10.0.0.6: bytes=32 time=0ms TTL=128
Reply from 10.0.0.6: bytes=32 time=0ms TTL=128
Reply from 10.0.0.6: bytes=32 time=0ms TTL=128
Reply from 10.0.0.6: bytes=32 time=0ms TTL=128

Ping statistics for 10.0.0.6:
Packets: sent=4, Recieved=4, Lost=0(0% loss),
approximate round trip times in milliseconds:
Minimum=0ms, Maximum=0ms, Average=0ms.

Hub ON switch OFF

PC> ping 10.0.0.4
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, recieved=0, lost=4 (100% loss)

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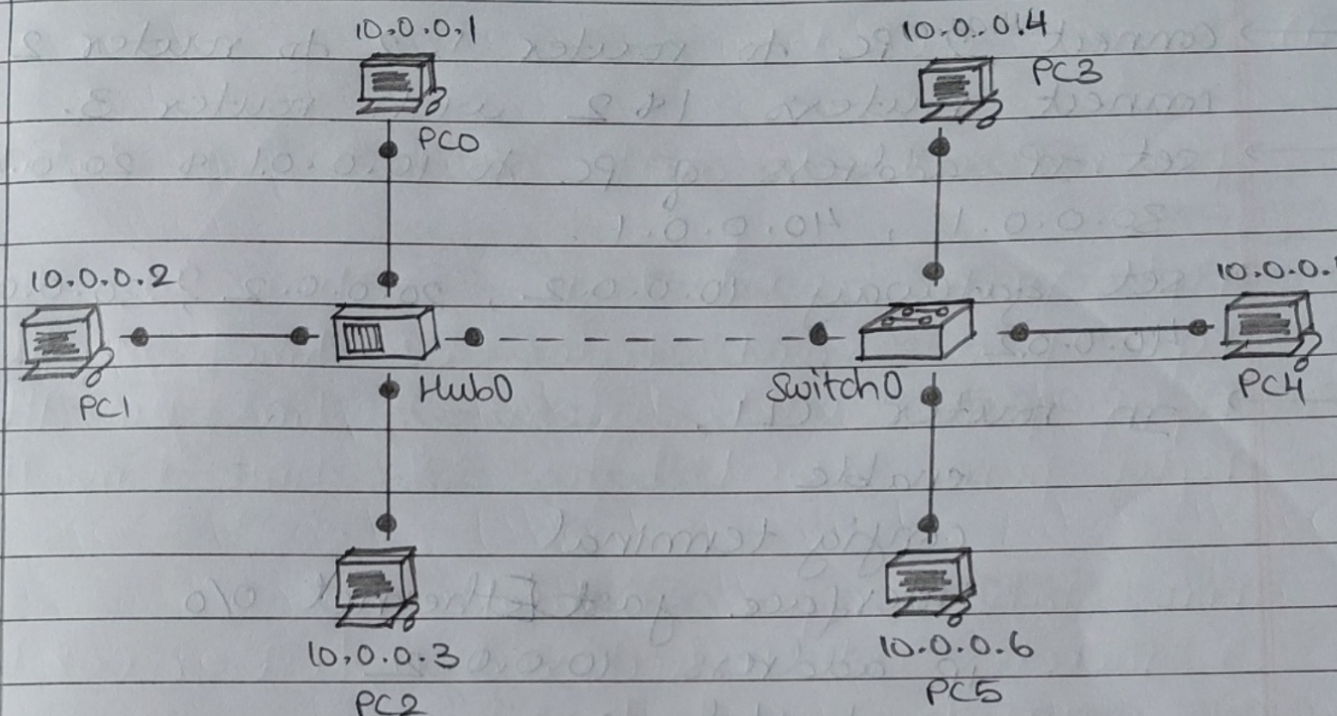
Topology :-



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