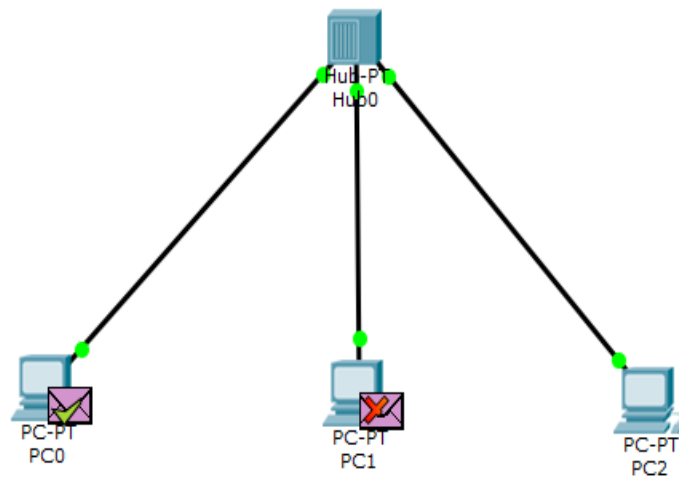


Lab-01- To demonstrate the transmission of a simple PDU between 2 devices connected using a Hub and a Switch.

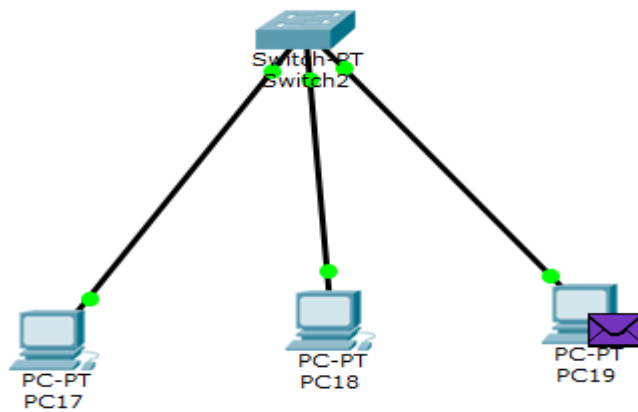
Using Hub:

Star Topology with Hub



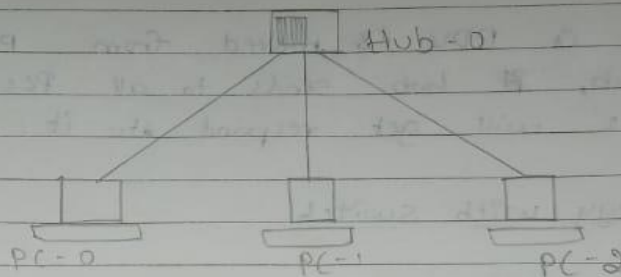
Using Switch:

Star Topology with switch



Lab-01

Aim: To demonstrate the transmission of a simple PDU b/w 2 devices connected using a hub and a switch.



Configuration steps:

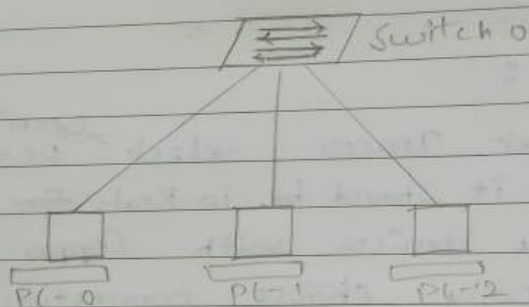
1. In Cisco Packet Tracer select ^{Generic} PCs & a ^{Generic} Hub. & it should be in Real-time mode.
2. Connect all the devices with Copper cross-over (or) Automatically choose connection Type Cable.
3. Now the devices are connect but IP address is not assigned. To assign IP address to PC's, click on PC0 & go to config tab.
4. In the config tab select Interface → FastEthernet0 and assign IP address as 10.0.0.1 in static mode.
Do the same thing for PC1 & PC2.
5. For Hub no need of IP address. Now All the devices are connected & IP address has been assigned.
6. Take a PDU & select source & destination PC, & check how the PDU is moving in

Simulation mode
⇒ Now the PDU ~~is~~ should be moved
from source PC to Destination PC.

Observation:

Whenever a PDU is moved from PC₀ to PC₂,
through Hub, ~~the~~ hub sends to all PCs but
only PC₂ will get respond to it.

Star Topology with Switch



Observation: Whenever we connect end devices
with switch to move PDU from PC-0 to PC-2,
it moves PDU from PC-0 to PC-2 without
sending it to PC-1.

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