

Ex: no: 3  
30/07/24

# CISCO PACKET TRACER SIMULATOR

Aim:

To study the packet tracer tool installation and user interface overview

1. From the network component box, click and drag-and-drop the below components:

- 4 Generic PCs and One Hub
- 4 Generic PCs and One Switch

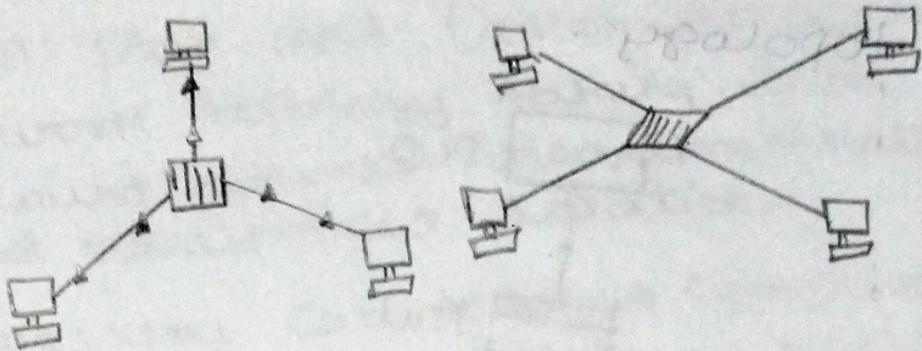
2. Click on Connections:

a. Click on Copper-Straight-Through Cable.

b. Select one of the PC and connect it to HUB using the cable. The link LED should glow in green indicating that the link is up. Similarly connect remaining 3 PCs to the HUB.

c. Similarly connect 4 PCs to the Switch using Copper straight-through Cable.

3. click on the PCs Connected to the hub go to the Desktop tab, click on IP Configuration and enter an IP address and subnet mask. Here, the default gateway and DNS Server information is not needed as there are only two end devices in the network.



4. observe the flow of PDU from Source PC to destination PC by selecting the Realtime mode of Simulation.

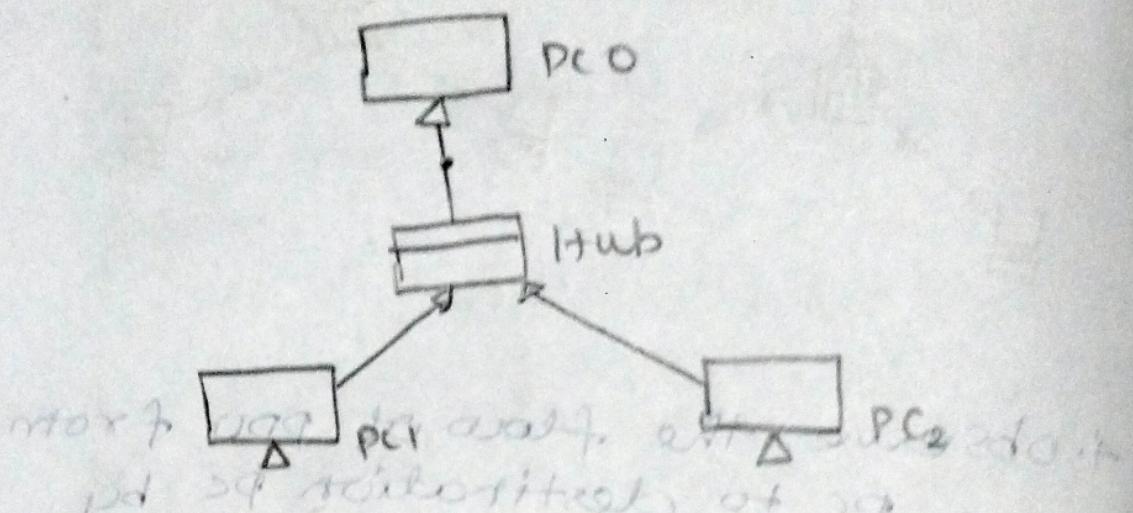
5. Repeat Step #3 to step #5 for the PCs Connected to the switch.

6. observe how HUB and switch are forwarding the PDU and conclusion about the behaviors of switch and HUB.

PC0
IP Configuration
IP Address: 10.1.1.1
Subnet Mask: 255.0.0.0
Default Gateway:
DNS Server:

Question -

- ① Hub: Broadcast all the connected device to hub know.
- ② switch: Forward packet only to specified port.
- ③ The topology used is Star topology.



Result: All the packets sent by one computer goes to all the other computers in the network.

Thus, the packet tracer tool installation and user interface overview is studied.

8/11  
30/7/24