

2010-10-04

## Cisco packet tracer simulator

Page  
Date

Aim:-

To understand and study the packet tracer tool installation and user interface.

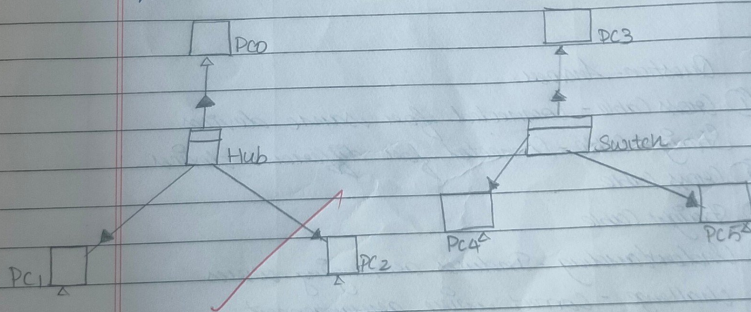
1. From the network component box, click and drag and drop below the components:

- a. 4 generic PCs and one Hub
- b. 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 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.



characteristics of Star topology :-

- \* If one cable (or) device fails then all other will still work.

- \* It is easy fault detection because links are often easily identified.

② The topology used is Hybrid.

Characteristics :-

- \* Adding a new node (or) deleting the existing node is easy.

- \* Error detection and trouble shooting is easy.



PC0
IP CONFIGURATION
IP address: _____

Click on the PDU (message icon) from the common tool bar.  
 a. Drag and drop it on one of the PC and then drop it on another PC (destination machine) connected to HUB.

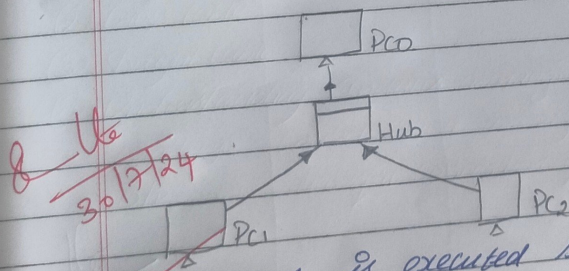
4. Observe the flow of PDU from source PC to destination PC by selecting the real-time mode of simulation.

5. Repeat Step 3 to Step 5 for PC's connected to switch.

6. Observe how Hub and Pdu Switch are forwarding the PDU and write your observation and conclusion about the behaviour of switch and Hub.

Question-Answer.

- ① Hub: Broadcast all the connected device.
- ② Switch: Forward packet only to specified port.
- ③ The topology used is star topology.



Result:- The program is executed successfully