

6/8/2023

Aim: To study the Packet Tracer tool Installation and User Interface Overview.

a) Cisco Packet Tracer is successfully installed.

b) Analyse the behaviour of network design using CISCO PACKET TRACER simulator.

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

a) 4 Generic PCs and one HUB

b) 4 Generic PCs and one switch.

2. Click on Connection

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.

d) Click on the PC's 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.

3) a) Drag and drop one of PC (source window) 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.

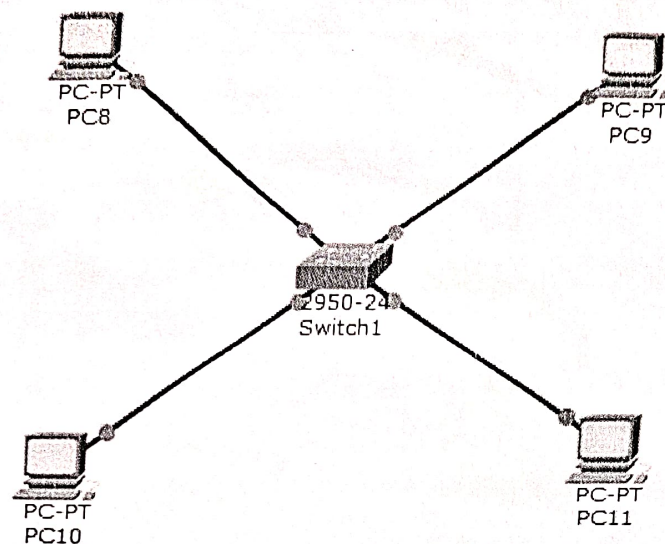
5. Repeat step 3 to 5 for the PC's connected to the switch.

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



packets sent at two bits  
 could be equal or not in between  
 switch in packet. that label has  
 had a label

please  
 PC  
 between



### Student Observation:

- From your observation write down the behaviour of switch and HUB in terms of following the packets received by them.

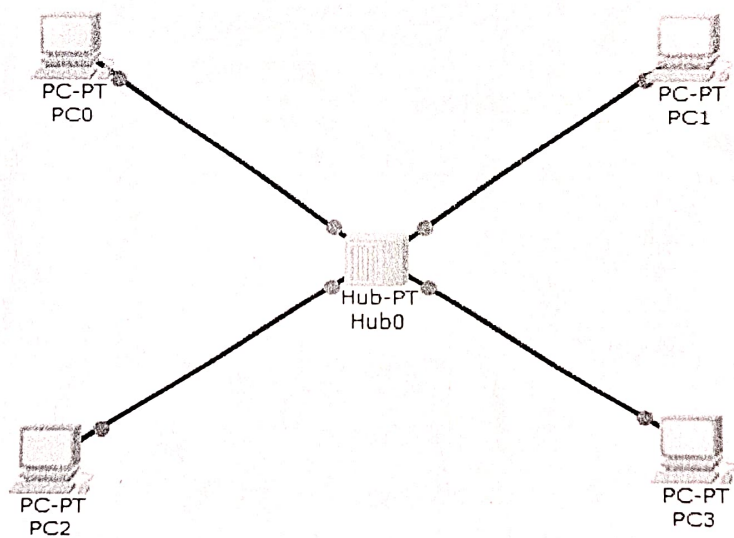
A switch forwards packets only to the specific device (port) based on MAC address while a hub ~~broadcasts~~ packets to all connected devices.

tribute in network



b) Find out the network topology implemented in your college and draw and label that topology in your observation book.

The network topology commonly used in college is star topology, where all devices are connected to a central switch or hub.



also checking addresses related to  
bus. (freq) since signals are at  
Result: like network JAM is  
between the packets traced tool  
installation and user interface  
overview is studied.