

3/7/25 2x-3 Experiments on Cisco packet tracer

AIM: To Study the packet tracer tool installation and use configuration

Steps

1) From the network component box click and drag and drop the below components

1) 4 generic PCs and one HUB

2) 4 generic PCs and one switch

2) Click on Connections

1) Click on copper straight-through cable

2) Select one of the PC and connect it to HUB using the cable the link LED should glow in green.

3) Similarly connect 4 PCs to the switch using copper straight-through cable

4) Click on the PC's connected to HUB, go to the desktop tab, click on IP Configuration and enter the IP address and subnet mask here the default gateway and DNS server information is not needed

5) Drag and drop the PDU on one of the PC and drop it on another PC connected to the HUB

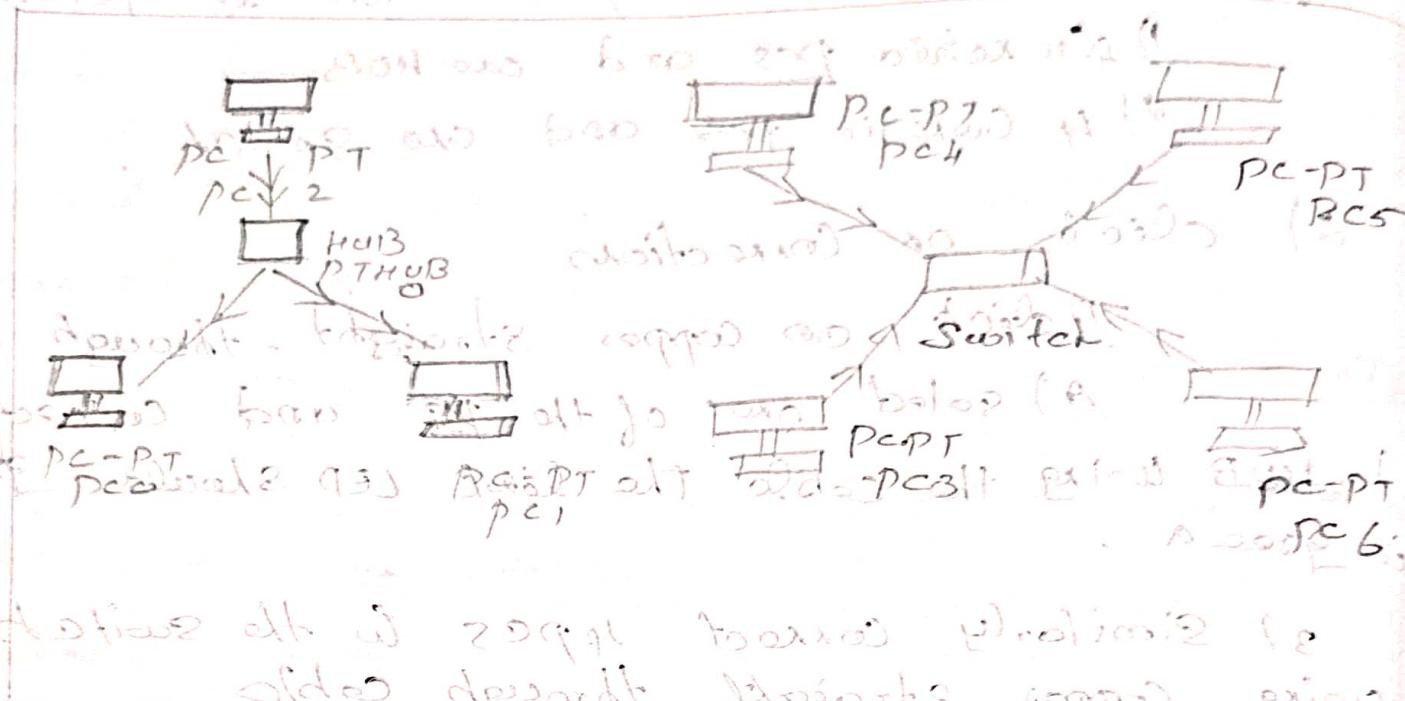
6) Observe the allocation of PDU from Source PC to destination PC by selecting the reaction mode of Simulation

• Source destination

(V) Repeated Step 3 6 steps for the PC's Broadcast to the Switch.

We observed the HUB and Switch are forwarding the PDU and write your observation.

Output: what do you have to do to



Student observation

① Behaviour of Switch and HUB in terms of forwarding Packets received by the switch.

Switch

(i) works at Layer 2 (Data link layer)

(ii) Reduces collisions by creating separate domains and provides better performance

HUB

(i) works at Layer 1 (Physical layer) of the OSI model

(ii) Causes more collisions and less efficient network.

④ outdoor topology used in our college.

Star Topology: All nodes are connected to a central switch. It is easy to manage troubleshooting and expand.

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The CISCO packet tracer has been installed in the lab and 01000 views have been shared successfully.