

4/1/25 Study of packet tracer tool Installation and user Interface overview

En No 8

Aim: To study the packet tracer tool Installation and user Interface

- (a) Cisco packet tracer has been successfully installed
- (b) Analyse the behaviour of network devices using Cisco packet tracer simulator.
 1. from the network component bar, click and drag - and - drop the below component.
 - (a) 4 generic PCs and one HUB
 - (b) 4 generic PC 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.
 - (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.

Click on the PDU from the common tool bar

(a) Drag and drop it on one of PC and then drop it on another PC connected to the HUB.

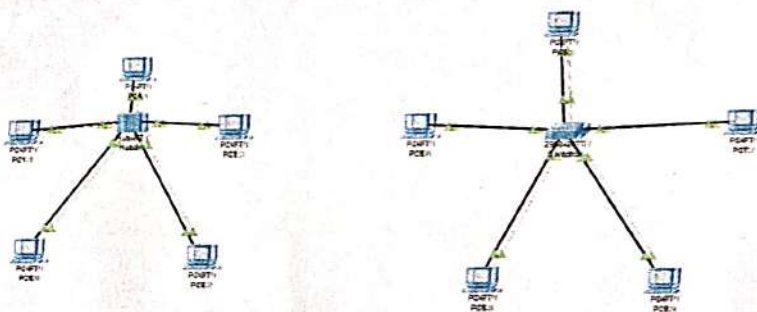
4) observe the flow of PDU from source PC to destination PC by selecting the Realtime mode of simulation.

5) Repeat steps 4 to step 5 for the PC's connected to the switch.

6) observe how HUB and switch are forwarding the PDU and about the behaviour of switch and HUB.

17/25, 10:15 PM

Screenshot 2025-07-31 090324.png



student observation:

a) From your observation write down the behaviour of switch and hub in terms of forwarding the PACKET 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.

(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 colleges is star topology, where all devices are connected to a central switch or hub.

15/10/26

Result:

The packet trace tool installation and user interface overview is studied.