

Aim: To study the Packet tracer tool Installation & Interface Overview.

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

a) 4 Generic PCs and One HUB.

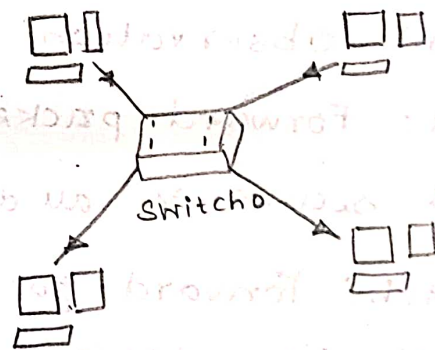
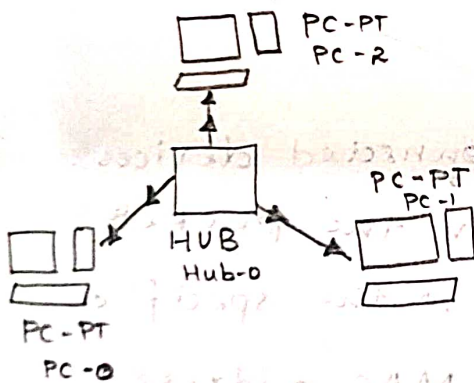
b) 4 Generic PCs and One switch.

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. This link LED should glow in green, indicating that the link is up.

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 PDU from the common tool bar.

a) drag and drop it on one of PC and then drop it on another PC connected to HUB.

PC0

IP CONFIGURATION

IP CONFIGURATION

☐ DHCP ☒ Static

IP Address

Subnet Mask

Default gateway

DNS Server

PC1

IP CONFIGURATION

IP CONFIGURATION

☐ DHCP ☒ Static

IP Address

Subnet Mask

Default gateway

DNS Server

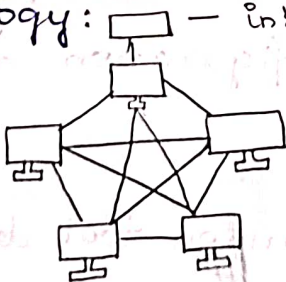
4) Click on flow of PDU from source PC to destination PC by selecting the Realtime mode of simulation.

5) Repeat step #3 to step #5 - for the PCs connect to switch.

Student observation:

a) HUB: Forward packets to all connected devices.
Less secure as all devices receive the packets.

Switch: Forward packets only to the specific destination device based on MAC address.
More Secure & efficient compared to HUB.

b) Mesh Topology:  - Internet | Server

Result:

Thus the packet tracer tool installation and user interface overview has been studied.

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