

CISCO Packet Tracer Practical 2

Aim

To study the packet tracer tool
installation user interface overview

Analyse the behaviour of network devices using
CISCO packet tracer.

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

a. 4 Generic PCs & 1 Hub

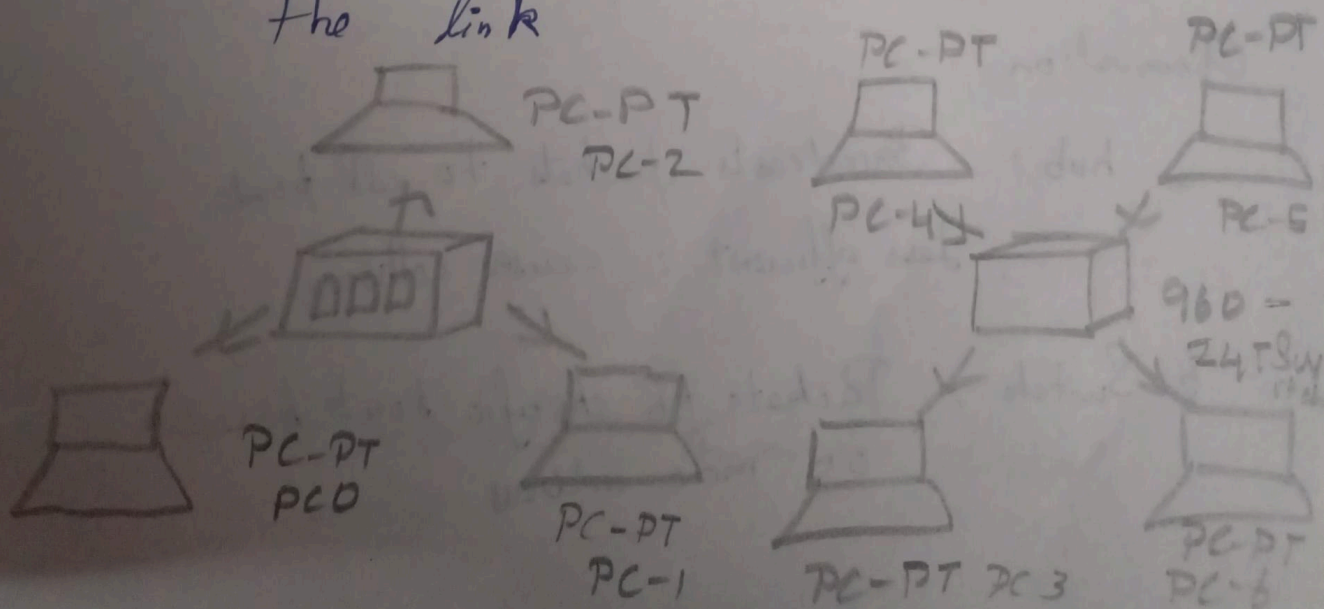
b. 4 Generic PCs & 1 Switch

2) Click on Connections

a. Click on Copper Straight through Cable

b. Select one of the PC & connect it to
HUB using the cable. The link

LED should glow in green indicating
the link

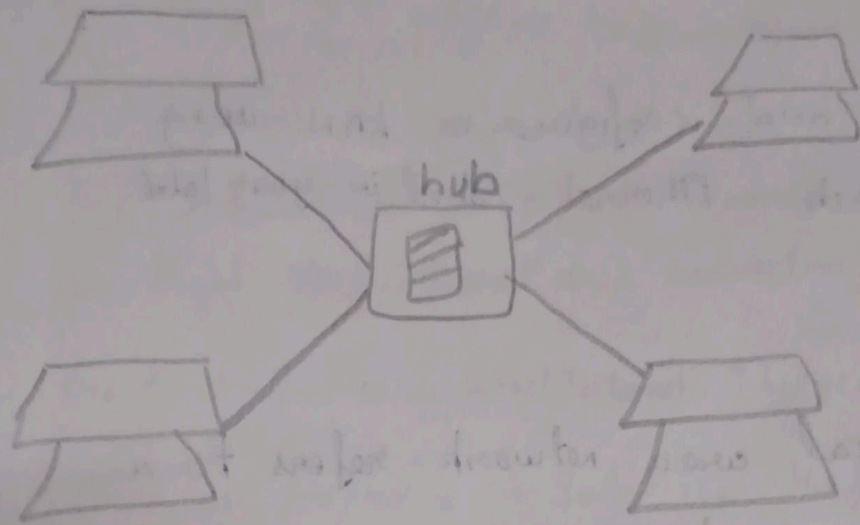


3. Click on the PC connected to hub, go to Desktop tab, click on IP config & enter an IP address in subnet mask
4. Click on PDU from common tool bar
Drag & Drop it on one of PC (Source Machine) & drop it on another PC (Destination) connected to hub
4. Observe the flow of PDU from Source PC to destination PC by selecting realtime mode of simulation
5. Repeat step 3 to step 5 for the PC connected to switch
6. Observe how hub & switch are forwarding PDU write your observation about Switch in HUB

Observation

- a hub: Broadcasts packets to all ports
Less efficient; causes collisions
- b Switch: Packets to specific ports based on mac address

b) Star → All cables run to hub & if one cable fails only that computer is unable to use network



PC0	
IP CONFIG	
IP CONFIGURATION	
<input type="radio"/> DHCP	<input type="radio"/> Static
IP Address	10.1.1.1
Subnet mask	255.0.0.0
Default gateway	
DNS Server	

PC1	
IP CONFIG	
IP CONFIGURATION	
<input type="radio"/> DHCP	<input type="radio"/> Static
IP Address	10.1.1.2
Subnet mask	255.0.0.0
Default gateway	
DNS Server	

Result

Thus the Cisco packet Tracer is studied & verified