

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

To understand environment of cisco Packet Tracer to design simple network.

Introduction:

A simulator, as the name suggests, simulates network devices and its environment. Packet Tracer is an exciting network design, simulation and modelling tool.

1. It allows you to model complex systems without the need for dedicated environment.
2. It helps you to practice your network configuration and troubleshooting skills via computer or an Android or iOS based mobile device.
3. It is available for both the Linux and Windows desktop environments.
4. Protocols in Packet Tracer are coded to work and behave in the same way as they would on real hardware.

Installing Packet Tracer:

To download Packet Tracer, click on Packet Tracer graphix and download package for your OS.

Windows:

Installation in Windows is pretty simple and straightforward; the setup comes in a single file named Packettracer - Setup6.0.1.exe.

Linux:

Linux users with an Ubuntu / Debian distribution should download the file for Ubuntu, and using Fedora must download the file for Fedora.

cmd: tx PacketTracer601-1386-installer-7pm.bin

d) Analyse the behaviour of network devices using CISCO PACKET TRACER simulator.

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

a. 6 Generic PCs and One HUB

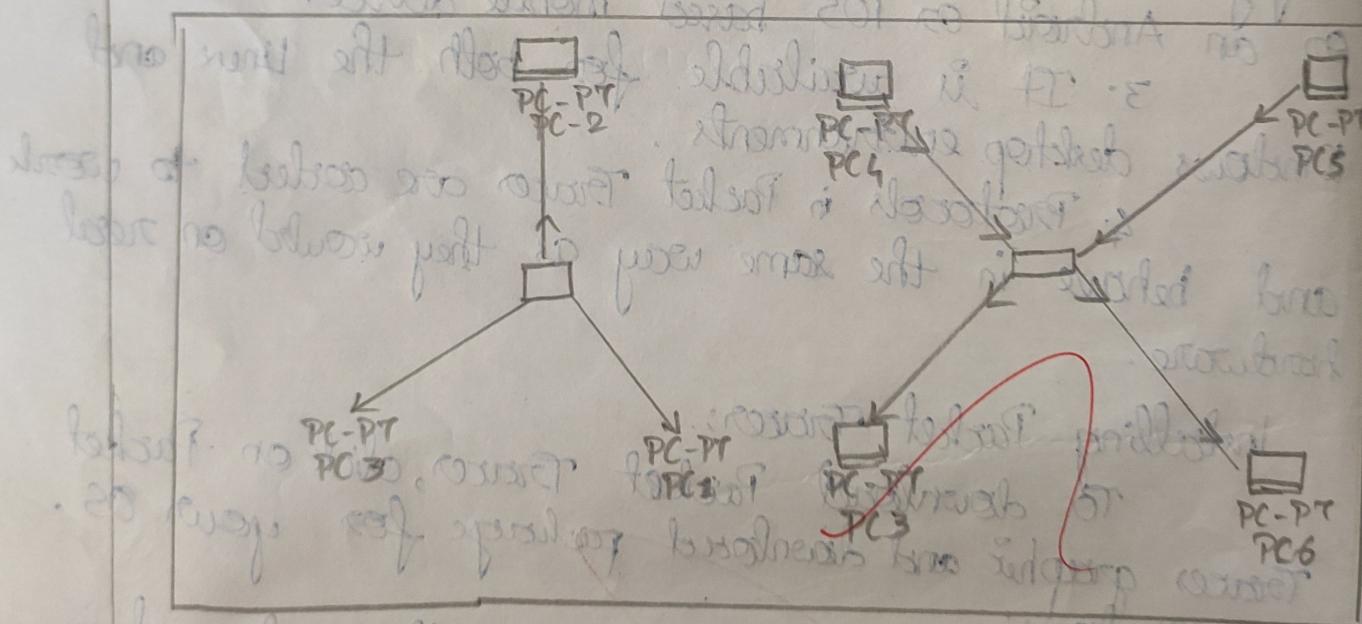
b. 4 Generic PCs and One Switch

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. 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.



3. Click on the PCs connected to which, go to Desktop tab, click on IP Configuration, and enter IP address and subnet mask. The default gateway and DNS server information is not needed as there are only two end devices in the network.

Click on the PDU (message icon) from tool bar,
15
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 step #3 to step #5 for PCs connected to the switch.
6. Observe how HUB and switch are forwarding the PDU and write your observation and conclusion about the switch and HUB

Student Observation:

a) From your observation write down the behaviour of switch and HUB in terms of forwarding the packets received by them.

→ Switch forward packet only to the intended recipient, leaving MAC address over line.

b) Start topology.

Q 189/25 8/5

Result:

The packet Tracker, To CISCO has been successfully installed and studied.