Exp. No. 3
20/8/25

(Practical - 3)

Study the Packet tracer tool installation & user Interference overview.

AIM:

To study the Packet tracer tool installation and User Interferena Overview.

c) 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, modeling tool.

1. It allows you to practice model complex system without need for dedicated equipment.

2. It helps you to practice your network configure and trouble shooting skill via computer or ios device.

3. It is available for both linux and windows desktop environments

4. Protocol in Packet Tracer are coded to work and behave in same way as they would on real hardware.

User Interface Overview:

The layout of Packet tracer is divided into several components. The components of the Packet tracer interface are as follows: match the numbering

1. Menu bar

This is a common menu found in all software applications; it is used to open, save, print, change the preferences, and so on.

2. Main Toolbar

This bar provides shortcut icons to menu option that are commonly accessed, such as open, Save, zoom, redo, and on right hand side is an icon for entering network information for current network.

3. Logical workspace tabs - These tabs allow you to toggle between the logical and Physical work areas.

4. Workspace - This is area where topologies are created and stimulated are displayed.

5. Common tool bar - tool bar provides control are created and stimulations are displayed.

6. Real time - These tabs are used to toggle, such as select, move layout, delete, inspect, PDU

7. Network box - This component contains all of network and end devices available with packet tracer is further divided into two areas.

8. User created packet - Users can create highly customized packet

d) Analyse behaviour of network devices using CISCO PACket TRACER simulator

1. from network component box, click and drag drop below

a: 4 generic PCs & one HUB

b: 4 generic PCs & 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 cable. The link LED glows green to link up.

c: Similarly connect 4 PC switch copper straight cable

3: Click on PCs connect to hub, go the desktop tab, click on IP address and subset mask.

4. observe flow of PDU from Source PC to destination PC by selecting realtime mode of simulation

5. Repeat step #3 to step #5 for PCs connected to switch.

6. observe HDB & switch are forwarding the PDU

student observation :

a) from your observation write down behaviour of switch & HUB in term of forward packet received by them

-) switch forward packet only to intended recipent, learning MAC address over time

b) start topology.

Result :

The packet tracker, to CISCO has been successfully installed & studied