

EXP 3 Study of Packet tracker installation & User Interface Overview

- AIM:
- To study the Packet tracker tool Installation and user interface overview.
 - To understand environment of cisco packet tracker to design simple network

Installation:

Windows - Download from [natacad.com](http://www.natacad.com).
Packettracker - Setup 6.0.1.exe, accept license, choose location and install.

User Interface:

- menu-bar : open, save, print, preferences
- main tool bar : Shortcuts : open, save, zoom, undo / redo
- logical / physical tabs : Switch between logical & physical views.
- workspace : Create topology and run simulation.
- Common Tool Bar : Select, move, delete, nodes, RDU tools.
- Real time Simulation tabs : Switch modes, Control time, capture packets.

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- Network Design and Analysis:
- Drag components \Rightarrow 4 PCs + 1 Hub, 4 PCs + 1 switch
- use copper straight-through cable to connect PCs to Hub & switch.
- Assign IP & Subnet mask [Desktop \rightarrow IP configuration]
- Send PDU [message icon] between PCs; observe in Realtime mode
- Repeat for Switch network.

OBSERVATION AND CONCLUSION:

HUB: Broadcasts data to all ports \rightarrow more collisions, less efficient.

Switch: Sends data only to the destination port \rightarrow faster and efficient.

STUDENT OBSERVATION

- From your observation write your behaviour of Switch and hub in terms of forwarding the packets received by them.

HUB: Broadcasts incoming packets to all connected devices regardless of the destination,

E:

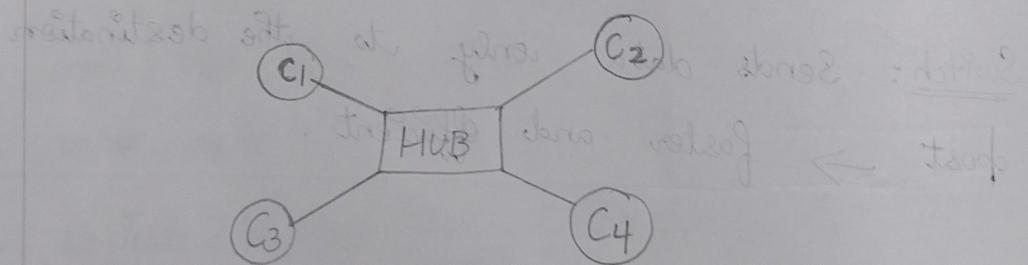
Counting unnecessary traffic.

Switch: It forwards packets only to the specific device based on its MAC address table, making communications more efficient.

- b) Find out the network topology and implement in College and draw and label that topology in observation note.

The most commonly used network topology in College Campus is

Star topology:



RESULT:

Thus we connected PCs to Hubs and Switches and observed how data travels through network, using packet tracer tool.

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