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Lab 1

Cisco Packet Tracer

simulation-based learning environment for networking novices to design, configure, and troubleshoot computer networks at a CCNA-level of complexity.

Packet Tracer is a medium fidelity, network eapable,

Packet tracer is an integrated simulation, visualization, collaboration and assessment environment. Packet tracer

supports student and instructor creation of simulations,

visualizations, and animon options of networking phenomena. It relates on a simplified model of networking

devices and protocols. Packet traces was created

to help address the digital divide in networking education, where many students and teachers lock

of learning networking.

Major features: Protocals, Logical and Physical workspace, Realtime Mode, Simulation mode,

tocal authoring and shoring

In the logical workspace and realtime mode from the device-type selection box select the end devices option from device specific selection box select a generic device and place it and the workspace. Now select another generic device and place it also on the workspace Next click on connections from device type selection box. Select the default connection and connect the two devices on the workspace. Next left click on one end device and click on 'config' tob. Next Select 'Fastethernet@'. Now we need to specify an ip address pto establish a connection. Give the address as 10.0.0.1 for this end device Repeat the same steps for otherrend device. Next from the common tools bar select the option to odd simple PDV and place it on each end device. Then finally in simulation mode exclick on auto capture/play to begin the simulation.

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Hub, Switch and Router

Hub: A hub is just a connector that connects the wires coming from different sides. There is no signal processing or regeneration. It is an electronic device that operates only on physical layers of the OST model.

Switch is a point to point communication device. It operates at the data link layer of OSI model. It uses switching table to find out the correct destination.

Router: Routers are the multiport devices and more sophisticated as compared to repeaters and bridges. It contains a routing table that enables it to make decision about the route i.e., to determine which of the several possible poths between the source and destination is the best for a particular transmission.

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