Date:

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IMPLEMENTATION OF STAR TOPOLOGY USING PACKET TRACER

Aim: To Implement a star topology using packet tracer and hence to transmit data between the devices connected using star topology.

Software/Apparatus required: Faciset Tracer/Lind devices, bridge, connectors.

Steps for huilding topology:

Step 1: Start Packet Timeer

Step 2: Choosing Devices and Connections

Step 3: Building the Lopology - Adding Hosts

Single click on the End. Devices:

Single click on the Generic host.

Move the cursor into topology area.

Single click in the ropology area and it copies the device.

Step 4: Building the Topology - Connecting the Hosts to Switches.

Select a switch, by choking once on Switches and once on a 2950-24 switch.

Add the switch by moving the plus sign "4".

Step 5: Connect PCs to switch by first choosing Connections.

Click once on the Copper Straight-through cable.

Chek once on PCC

Choose East Ethernet.

Drug the cursor to Switch#

Click once on Switch0

Notice the green link lights on PC Efficinet MIC and umber light Switch port. The switch port is temporarily not forwarding frames, while it goes through the stages for the Spanning Tree Protocol (STP) process. After about 30 seconds the umber light will charge to green indicating that the port has entered the forwarding stage. Frames can now forwarded out the switch post.

Step 6: Configuring IP Addresses and Subnet Masks on the Hosts.

To start communication between the hosts IP Addresses and Subnet Mashs had to be Configured on the devices. Click once on PCO. Choose the Config tab and click on FastEthermar0, Type the IP address in its field. Click on the subnet mask it will be generated automatically.

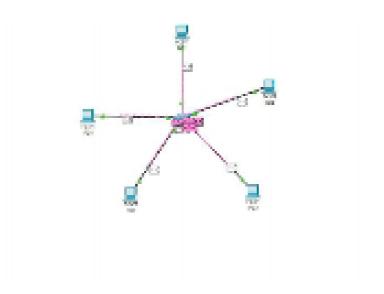
Step 7: To confirm Data transfer between the devices

Click on the work. Select deshtop option and then command prompt. Once the window

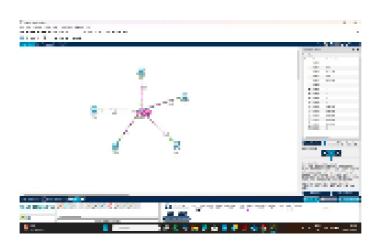
poperup, ping the IP address of the device to which nodel()'s connected. Ping statistics will be

displayed

Dingram:



Output:



Result: Thus the Star topology is implemented with Packet Tracer simulation Tool.