Date:

EXPERIMENT-5

IMPLEMENTATION OF MESH TOPOLOGY USING PACKET TRACER

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

Software / Apparatus required: Packet Tracer / Enclolevices, Hules, Connection,

Steps for building topology:

Step 1: Start Packet Trocer

Step 2: Choosing Devices and Connections

Step 3: Building the Topology - Adding Hosts

Single click on the End Devices.

Single click on the Generic bost.

Mose the current into torrology area.

Single click in the tonology area and it conies the device:

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

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

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

Step 5: Connect PCs to switch by first choosing connections

Click once on the Copper Straight-through cable.

Click mass on PC2

Choose East Ethernet

Drug the cursor to Switchtt.

Click once on Switch0.

Notice the green link lights on PC Ethernet NIC and umber light Switch port. The switch port is temporarily not torwarding frames, while it goes through the stages for the Spanning Tree Protocol (STP) process. After about 30 accords the ambartight will change to green indicating that the port has entered the forwarding stage. Frames can now forward out the switch port.

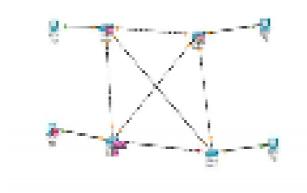
Step 6: Configuring IP Addresses and Subnet Masks on the Blosts

To start communication between the limits IP Addresses and Subnet Masks had to be configured on the devices. Click once on PC0, Choose the Config tab and click. on EastEthernet0. 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 node. Select desktop option and then command prompt. Once the window paps up, ping the IP address of the device to which node0 is connected. Fing statistic will be disclayed.

Diogram:



Output:

