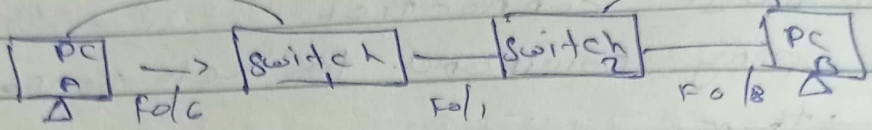
EX.NO:8

VIRTUAL LAN CONFIGURATION USING CISCO PACKET TRACER



Addressing TABLE:-

Device	Interface	IP Address	subnet mask	Default gateway
S1	VLAN 1	192.168.1.11	255.255.255.0	N/A
S2	VLAN 2	192.168.1.12	255.255.255.0	N/A
PC-A	NIC	192.168.10.3	255.255.255.0	192.168
PC-B	NIC	192.168.10.4	255.255.255.0	192.168

PART 1:-

Objective:-

To build the network and configure basic device settings.

Steps:-

1) Build the network as shown in topology
2) Open the configuration window and configure basic setting for each switch.
3) From the Desktop tab configure PC host and enter the IP addressing Information.

4) Test the connectivity by attempting to ping b/w each of the enabled device.

Part - 2 :-

objective:

To create virtual LAN's and assign switch ports.

Steps:-

1) Create virtual LAN's on the switch
   L> open configuration window
   a) Create VLANS on S1
   b) Create VLANS on S2
   c) Issue show VLAN command brief.

2) Assign VLAN to connect switch interfaces.

Part 3.

objective :-

To maintain VLAN port Assignments on the VLAN database.

Steps:

1) Assign a VLAN to multiple interfaces
2) Remove a VLAN assignment from an Interface.
3) Remove a VLAN ID and the VLAN database

Part A:

Objective:-

To configure 802.1Q trunk b/w the switches.

Steps:-

1) Use DTP to initiate trunking on Fo/1

2) Manually configure the trunk Interface Fo/1

a) On Interface Fo/1 change the switch port mode to force trunking. make sure to do this on both switches.

b) Design and configure a VLAN for the below given scenario.

Result:-

Therefore the simulation of virtual LANs configuration using CISCO packet tracer simulation is successful