Exp No - 8a

Date-. 18-10-24

a) Virtual LAN

Aim

Simulate virtual configuration using Cisco Packet Tracer Simulation

PROCEDURE

1) Create the network using 1 Switch & 4 PCs as shown in figure

2) Check the network by sending packets (optional)

3) Assign IP address to the PCs

   PC0 - 10.0.0.1
   PC1 - 10.0.0.2
   PC2 - 10.0.0.3
   PC3 - 10.0.0.4

4) Right - Click on Switch & then on CLI run the following command

   > enable
   # Conf t
   # vlan 2
   # name office
   # exit
   # vlan 3
   # name home
   # exit
   # interface fastEthernet 0/1
   # Switchport access vlan 2
   # exit

#interface fastEthernet 0/2
switchport access vlan 2
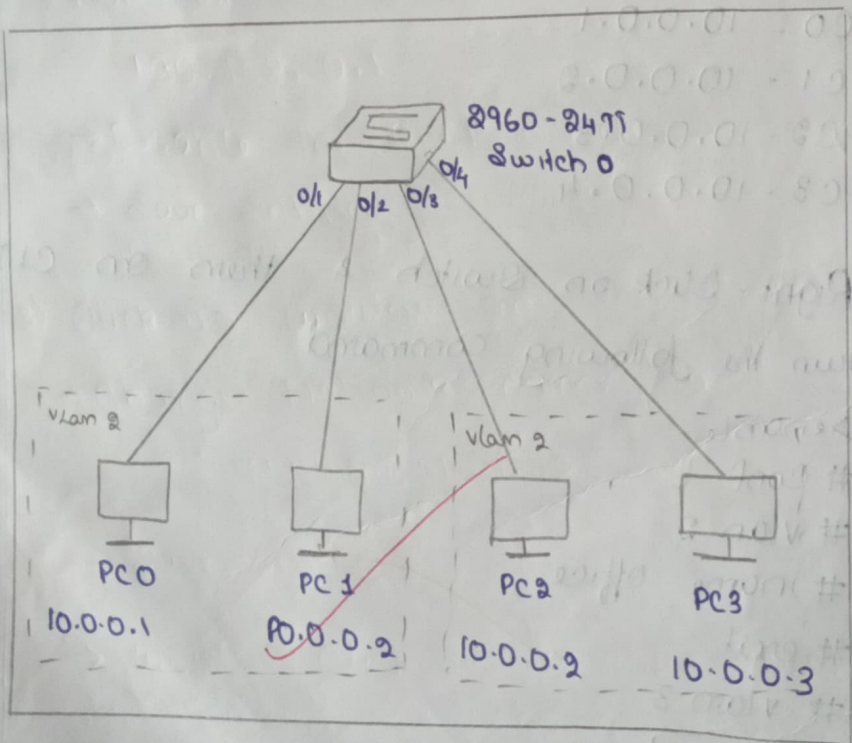# exit
interface fastEthernet 0/3
switchport access vlan 3
exit
interface fast Ethernet 0/4
switchport access vlan 3
exit

5) Now try pinging packet from
PCs to one one another

Diagramatic Representation

8960-24TT
Switch 0

0/1 0/2 0/3 0/4

vlan 2   vlan 2

PC0   PC 1   PC2   PC3
10.0.0.1   P0.0.0.2   10.0.0.2   10.0.0.3

Observation

When packet transferred from PC0 to PC1 the packets are successfully transferred. Similarly for PC3 within same vlan Packets are transferred successfully

where as for PC5 can't transfer packets out of its VLAN.

Output

Fire	Last Status	Source	Destination	type	Colour	Time	Periodic	Num
◉	Successful	PC0	PC 1	ICMP	☐	0.000	N	0
◉	failed	PC1	PC2	ICMP	☐	0.655	N	1

Result

Thus the Virtual LAN has been Stimulated using cisco packet tracer