

Ex: 8a

Date: 10/9/24

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 (optcom)
- 3, Assign IP address to the PCs

PC 0 - 10.0.0.1

PC 1 - 10.0.0.2

PC 2 - 10.0.0.3

PC 3 - 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

```

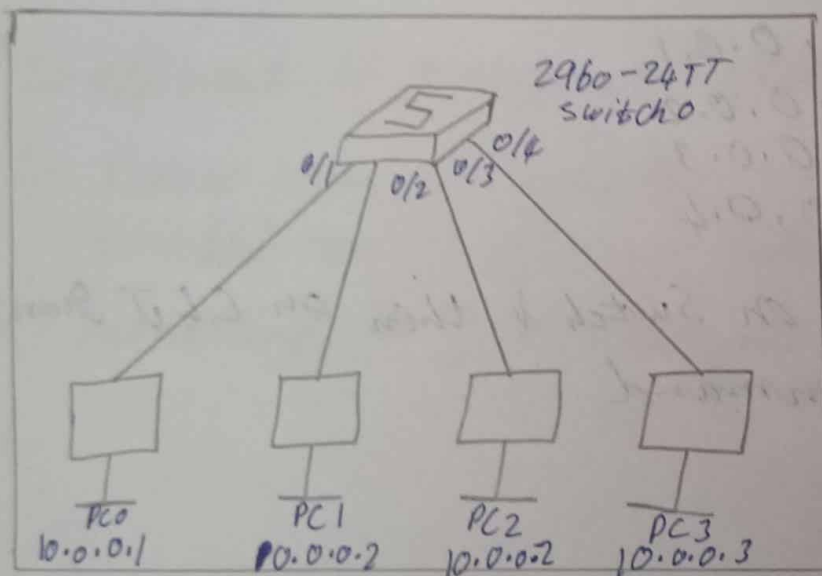
# interface fastEthernet 0/2
# switchport access vlan 2
# exit
# interface fastEthernet 0/3
# switchport access vlan 3
# exit
# interface fastEthernet 0/4
# switchport access vlan 3
# exit

```

5. Now try Pinging Packet from PCs to one another

Diagramatic





Representation



Observation

When Packet transferred from PC0 to PC2 the Packets are successfully transferred. Similarly too PCs within same Vlan Packets are transferred successfully whereas hosts PCs can't transfer packets out of its VLAN

Output:

Fire	Last Status	Source	Destination	Type	Colour	Time	Periodic	Num
	successful	PC0	PC1	ICMP		0.000	N	0
	failed	PC1	PC2	ICMP		0.655	N	1

Signature

Result:

That the Virtual LAN has been Stimulated using Cisco Packet Tracer