

Ex no: 8, a

Date: 10-9-24

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
```

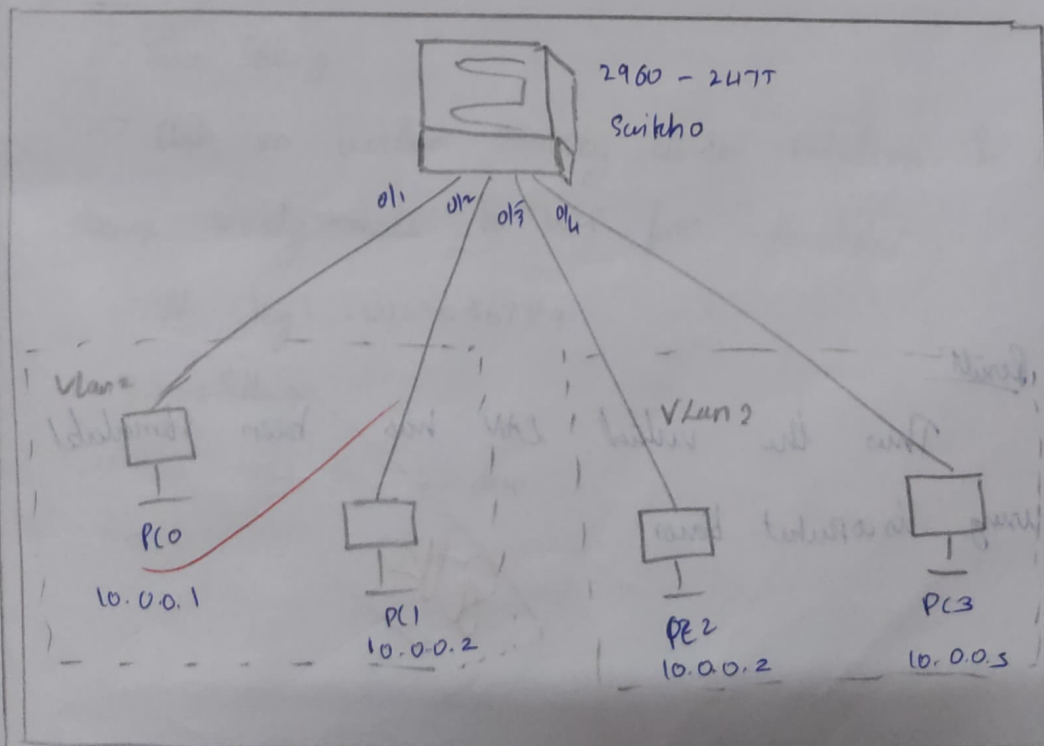
```
# interface fastEthernet 0/4
```

```
# switchport access vlan 3
```

```
# exit
```

5) Now by pinging packet from PC₁ to one
one another.

Diagrammatic Representation :





Observation:

When packet transferred from PC0 to PC4
the packets are successfully transferred. Similarly,
the PCs with same Vlan packets are transferred
successfully.

Whereas for PCs can't transfer packets out of
its VLAN

Output:-

File	Last Status	Source	Destn	Type	Colour	Time	Period	Min
	Successful	PC0	PC1	ICMP	□	0.000	N	0
	Failed	PC1	PC2	ICMP	□	0.655	N	1

Result:

Thus the virtual LAN has been simulated
using iscopacket boxes.

Signature