

Name: Rampurawala Alefiya Abbas

Subject: Computer Network

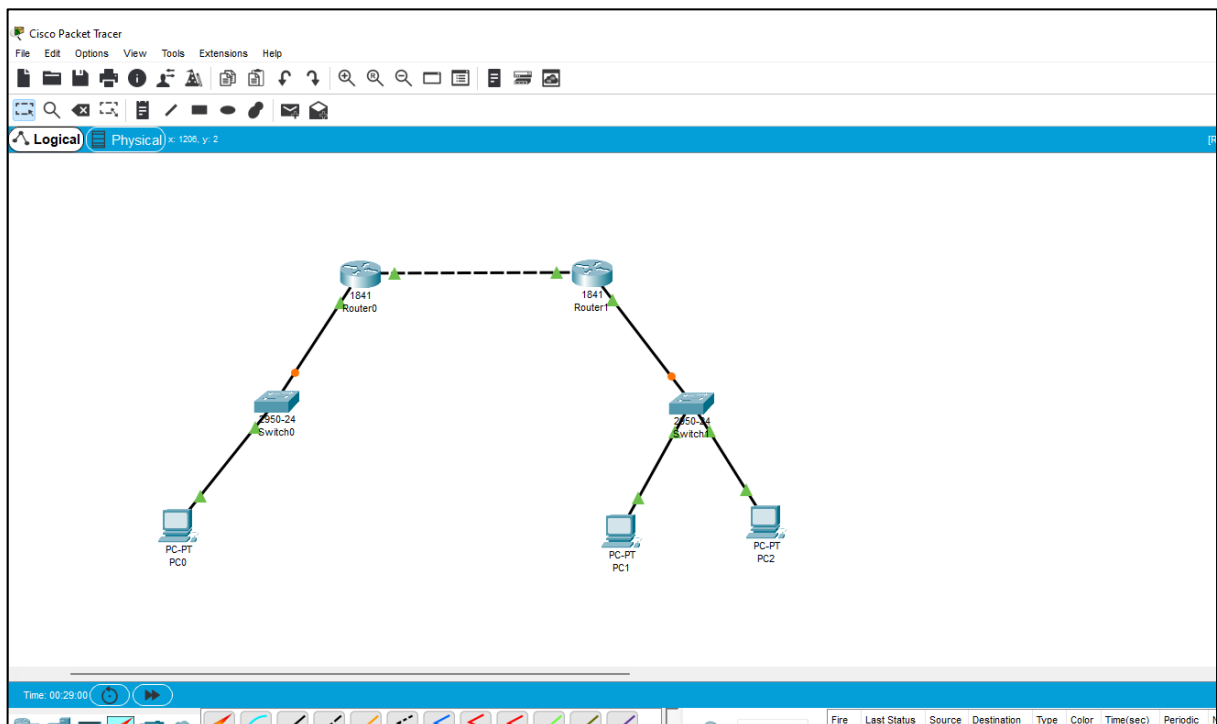
Roll No: 43

Class: TE4-C

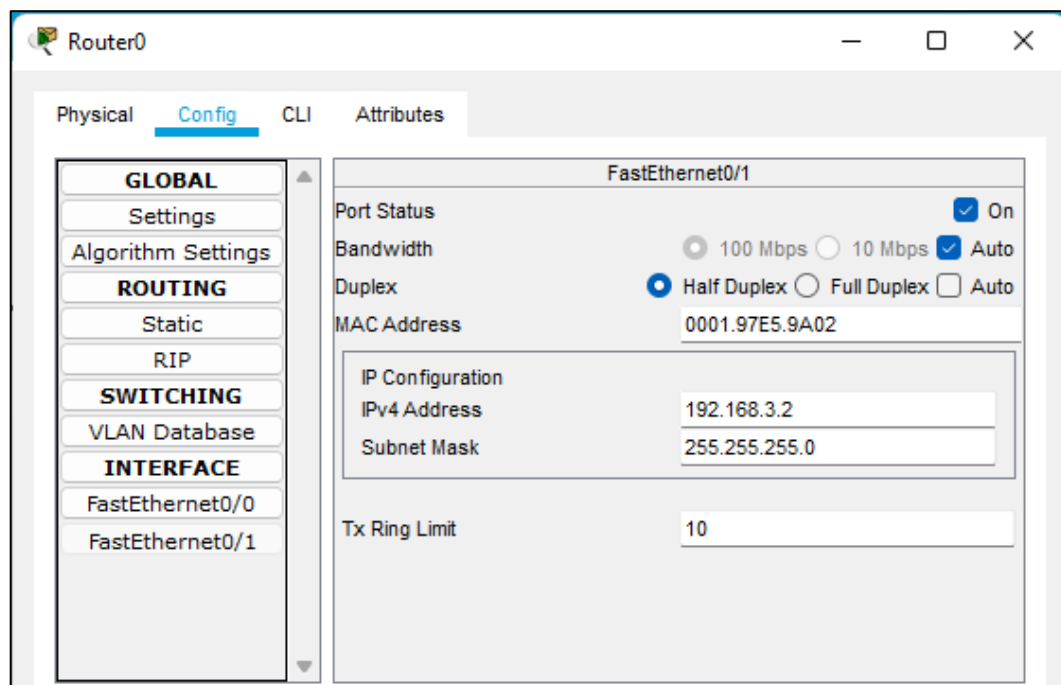
EXPERIMENT NO. 7

AIM: Design VPN and Configure RIP/OSPF using Packet tracer.

- Doing the Setup:



- IP Configurations:



Router1

Physical Config CLI Attributes

GLOBAL

Settings

Algorithm Settings

ROUTING

Static

RIP

SWITCHING

VLAN Database

INTERFACE

FastEthernet0/0

FastEthernet0/1

FastEthernet0/0

Port Status ☒ On

Bandwidth ☐ 100 Mbps ☐ 10 Mbps ☒ Auto

Duplex ☒ Half Duplex ☐ Full Duplex ☐ Auto

MAC Address 00D0.BAC5.7D01

IP Configuration

IPv4 Address 192.168.3.3

Subnet Mask 255.255.255.0

Tx Ring Limit 10

Equivalent IOS Commands

```
Router(config)#interface FastEthernet0/0
Router(config-if)#
Router(config-if)#exit
Router(config)#interface FastEthernet0/1
Router(config-if)#
Router(config-if)#exit
Router(config)#interface FastEthernet0/0
Router(config-if)#
```

☐ Top

PC0

Physical Config Desktop Programming Attributes

IP Configuration

Interface FastEthernet0

IP Configuration

☐ DHCP ☒ Static

IPv4 Address 192.168.1.100

Subnet Mask 255.255.255.0

Default Gateway 192.168.1.1

DNS Server 0.0.0.0

IPv6 Configuration

☐ Automatic ☒ Static

IPv6 Address /

Link Local Address FE80::230:A3FF:FE21:DB0A

Default Gateway

DNS Server

802.1X

☐ Use 802.1X Security

Authentication MD5

Username

☐ Top

PC1

Physical Config Desktop Programming Attributes

IP Configuration

Interface FastEthernet0

IP Configuration

☐ DHCP ☒ Static

IPv4 Address 192.168.2.100

Subnet Mask 255.255.255.0

Default Gateway 192.168.2.1

DNS Server 0.0.0.0

IPv6 Configuration

☐ Automatic ☒ Static

IPv6 Address /

Link Local Address FE80::260:3EFF:FEE7:6261

Default Gateway

DNS Server

802.1X

☐ Use 802.1X Security

Authentication MD5

Username

☐ Top

PC2

Physical Config Desktop Programming Attributes

IP Configuration

Interface FastEthernet0

IP Configuration

☐ DHCP ☒ Static

IPv4 Address 192.168.2.101

Subnet Mask 255.255.255.0

Default Gateway 192.168.2.1

DNS Server 0.0.0.0

IPv6 Configuration

☐ Automatic ☒ Static

IPv6 Address /

Link Local Address FE80::20D:BDFE:FE61:75E3

Default Gateway

DNS Server

802.1X

☐ Use 802.1X Security

Authentication MD5

Username

☐ Top

- Sending Packets

The network diagram shows a topology with two routers (1841) and two switches (2504). Router0 is circled in red. The Event List on the right shows a sequence of events including ARP requests and CDP advertisements. The bottom status bar shows a packet capture for PC0 to PC1.

Vis.	Time(sec)	Last Device	At Device	Type
	0.000	--	Router1	RPv1
	0.000	--	Router1	RPv1
	0.000	--	Switch1	DTP
	0.000	--	PC0	ICMP
	0.000	--	PC0	ARP
	0.001	--	Router1	CDP
	0.001	--	Router1	CDP
	0.001	PC0	Switch0	ARP
	0.001	Router1	Switch1	ARP
	0.001	Router1	Router0	RPv1
	0.001	Switch1	Router1	DTP
	0.001	--	Router1	CDP
	0.002	Router1	Router0	CDP
	0.004	--	Router1	ARP

The network diagram shows the same topology as the first image. Router1 is now circled in red. The Event List on the right shows a sequence of events including STP advertisements and CDP advertisements. The bottom status bar shows a packet capture for PC1 to PC2.

Vis.	Time(sec)	Last Device	At Device	Type
	28.066	Switch0	PC0	STP
	28.237	--	Switch1	STP
	28.238	Router1	Switch1	STP
	28.238	Switch1	PC1	STP
	28.238	Switch1	PC2	STP
	30.000	--	Router0	CDP
	30.000	--	Router0	CDP
	30.001	--	Switch0	CDP
	30.001	--	Switch0	CDP
	30.001	Router0	Router1	CDP
	30.001	Router0	Switch0	CDP
	30.001	--	Switch0	DTP
	30.001	--	Switch0	CDP
	30.002	Switch0	PC0	CDP