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Course: MCA

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Q-2]

Problem Statement: There are two organization in city named GEU and GEHU. design a network between the SOC department of GEU and GEHU. Also show the communication b/w user number 1 of GEU and user number 2 of GEHU.

Objective: To connect two LAN of a different organisation and communicate between users using switches and routers.

Steps:

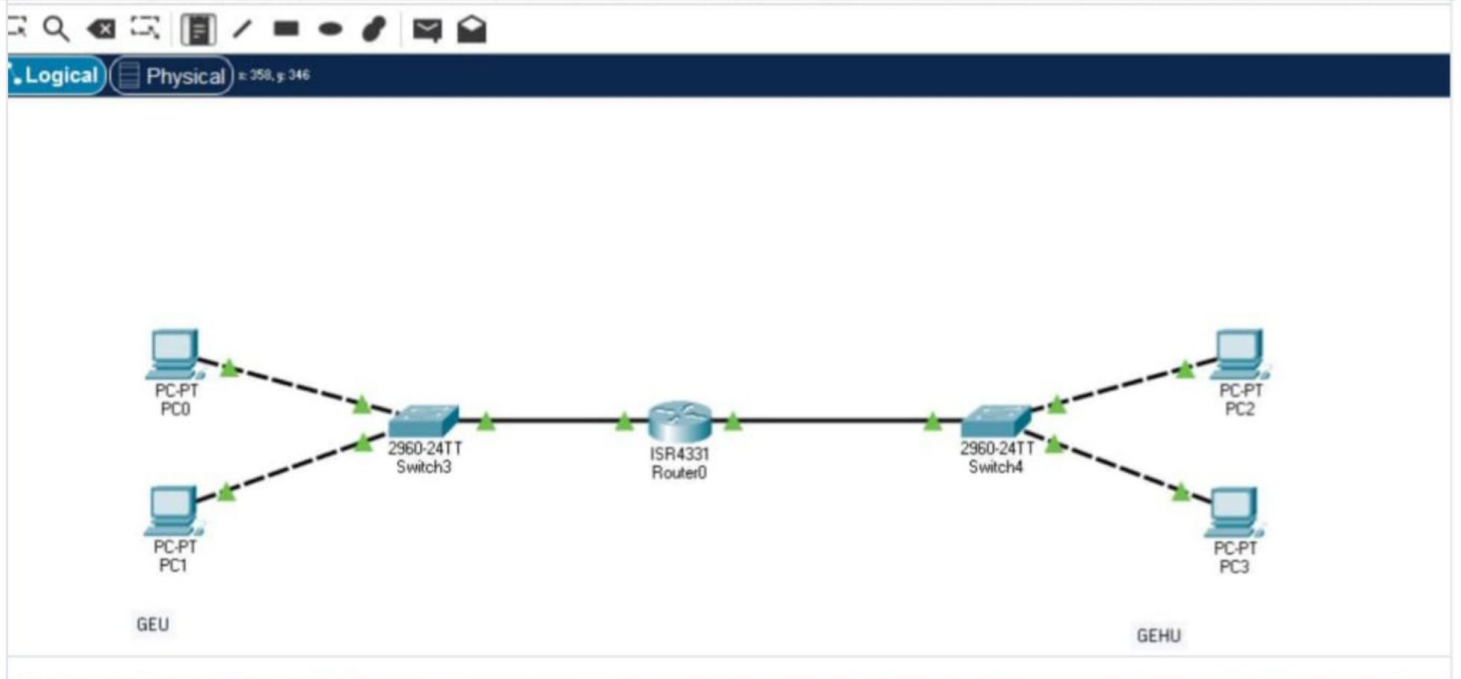
Step 1: Design a network for GEU and GEHU and connect them using router.

Step 2: Assign IP address and subnet mask to PC of both network.

Step 3: Assign IP address and subnet mask to router which will act as a default gateway of respective LAN.

Step 4: Sending a message from PC1 of GEU to PC2 of GEHU to check the connection.

Shubham



PC1

Physical Config **Desktop** Programming Attributes

IP Configuration

Interface FastEthernet0

IP Configuration

☐ DHCP ☒ Static

IPv4 Address	192.168.1.3
Subnet Mask	255.255.255.0
Default Gateway	192.168.1.254
DNS Server	0.0.0.0

PC2

Physical Config **Desktop** Programming Attributes

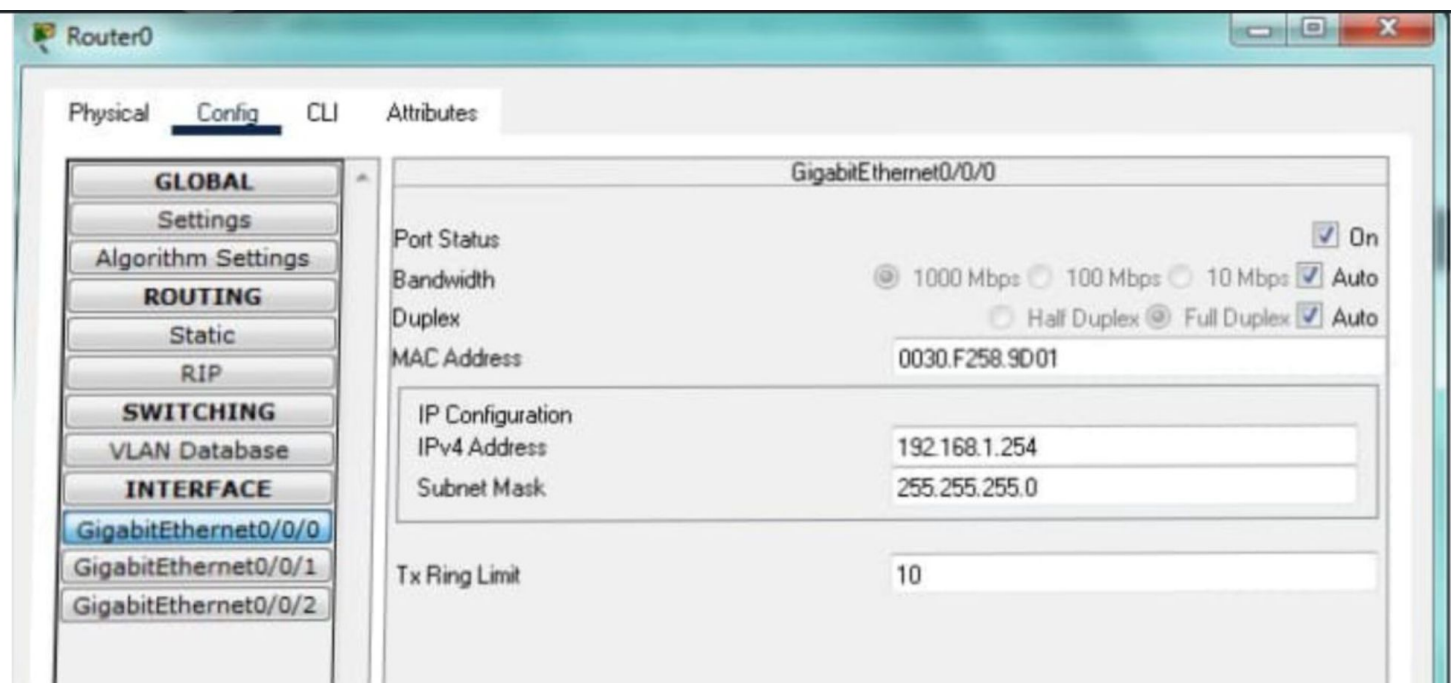
IP Configuration

Interface FastEthernet0

IP Configuration

☐ DHCP ☒ Static

IPv4 Address	172.16.1.2
Subnet Mask	255.255.0.0
Default Gateway	172.16.1.254
DNS Server	0.0.0.0



Router0

Physical Config CLI Attributes

GLOBAL

Settings

Algorithm Settings

ROUTING

Static

RIP

SWITCHING

VLAN Database

INTERFACE

GigabitEthernet0/0/0

GigabitEthernet0/0/1

GigabitEthernet0/0/2

GigabitEthernet0/0/1

Port Status ☒ On

Bandwidth ☒ 1000 Mbps ☐ 100 Mbps ☐ 10 Mbps ☒ Auto

Duplex ☐ Half Duplex ☒ Full Duplex ☒ Auto

MAC Address 0030.F258.9D02

IP Configuration

IPv4 Address 172.16.1.254

Subnet Mask 255.255.0.0

Tx Ring Limit 10

Logical Physical n 1061 y 202 [Root] 05:36:3

Simulation Panel

Event List

Vis.	Time(sec)	Last Device	At Device
	0.000	--	PC1
	0.001	PC1	Switch3

Reset Simulation ☒ Constant Delay Capturing...

Play Controls

Event List Filters - Visible Events

ACL Filter, ARP, BGP, Bluetooth, CAPWAP, CDP, DHCP, DHCPv6, DNS, DTP, EAPOL, EIGRP, EIGRPv6, FTP, H.323, HSRP, HSRPv6, HTTP, HTTPS, ICMP, ICMPv6, IPsec, ISAKMP, IoT, IoT, TCP, LACP, LLDP, NDP, NETFLOW, NTP, OSPF, OSPFv6, PAgP, POP3, PPP, PPPoE, PTP, RADIUS, REP, RIP, RIPng, RTP, SCCP, SMTP, SNMP, SSH, STP, SYSLOG, TACACS, TCP, TFTP, Telnet, UDP, USB, VTP

Edit Filters Show All/None

