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Class → MCA-B

Roll no → 2001149

Subject → Computer Networks (TMC-203)

Ans 2 → Problem Statement → There are 2 organizations in a 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 2 of GEHU.

Objective → Design a network between two departments

Description → Use packet tracer

Steps → 1) Create LAN-1 with 4 PC and create LAN-2 with 4 PCs.

2) Connect both LAN with router and configure the router.

3) Default gateway for LAN 1 is 10.0.0.5

Default gateway for LAN2 is 192.168.1.5

4) Sending PDU to see if connection is established

Cisco Packet Tracer

File Edit Options View Tools Extensions Window Help

Logical Physical x 539, y 494

[Root] 09:08:30

PC0

Physical Config Desktop Programming Attributes

IP Configuration

Interface FastEthernet0

IP Configuration

☐ DHCP

☒ Static

IPv4 Address 10.0.0.1

Subnet Mask 255.0.0.0

Default Gateway 10.0.0.5

DNS Server 0.0.0.0

IPv6 Configuration

☐ Automatic

☒ Static

IPv6 Address /

Link Local Address FE80::2E0:A3FF:FE11:85AE

Default Gateway

DNS Server

802.1X

☐ Use 802.1X Security

Authentication MD5

Username

Password

☐ Top

GEU

PC-PT PC0

PC-PT PC1

GEU

PC-PT PC6

PC-PT PC7

Time: 00:17:35.635

PLAY CONTROLS

Copper Straight-Through

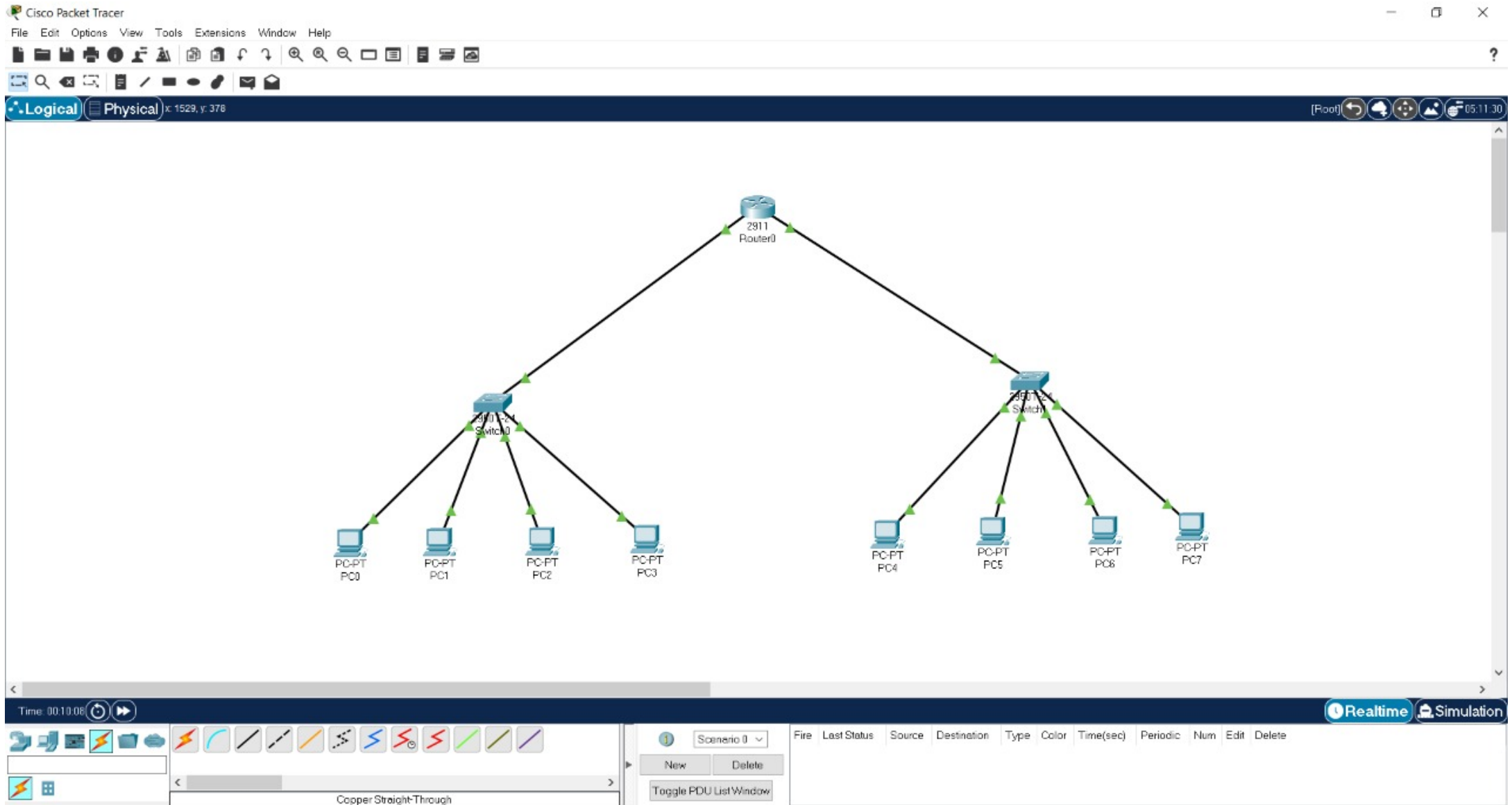
Scenario 0

New Delete

Toggle PDU List Window

Fire	Last Status	Source	Destination	Type	Color	Time(sec)	Periodic	Num	Edit	Delete
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Event List Realtime Simulation



Cisco Packet Tracer

FileEditOptionsViewToolsExtensionsWindowHelp

LogicalPhysical

x 1560, y: 377

[Root]

03:21:30

PC4

PhysicalConfigDesktopProgrammingAttributes

IP Configuration

InterfaceFastEthernet0

IP Configuration

☐ DHCP

☒ Static

IPv4 Address192.168.1.1

Subnet Mask255.255.255.0

Default Gateway192.168.1.5

DNS Server0.0.0.0

IPv6 Configuration

☐ Automatic

☒ Static

IPv6 Address

Link Local AddressFE80::202:18FF:FEA2:C3DB

Default Gateway

DNS Server

802.1X

☐ Use 802.1X Security

AuthenticationMD5

Username

Password

☐ Top

GEU

PC-PT PC0

PC-PT PC1

GEU

PC-PT PC6

PC-PT PC7

Time: 00:17:45.635

PLAY CONTROLS

Copper Straight-Through

Scenario 0

NewDelete

Toggle PDU List Window

FireLast StatusSourceDestinationTypeColorTime(sec)PeriodicNumEditDelete

Event List

Realtime

Simulation

Cisco Packet Tracer
File Edit Options View Tools Extensions Window Help

Logical
Physical
x 1553, y: 600

Simulation Panel

Event List

Vis.	Time(sec)	Last Device	At Device	T
	0.000	-	PC0	
	0.001	PC0	Switch0	
	0.002	Switch0	Router0	
	0.003	Router0	Switch1	
	0.004	Switch1	PC5	
	0.005	PC5	Switch1	
	0.006	Switch1	Router0	
	0.007	Router0	Switch0	
	0.008	Switch0	PC0	
	0.381	-	Switch1	

Reset Simulation
☒ Constant Delay
Captured to: 0.381 s

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, Meraki, 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

Time: 00:17:46.016
PLAY CONTROLS

Scenario 0
New
Delete
Toggle PDU List Window

Fire
Last Status
Source
Destination
Type
Color
Time(sec)
Periodic
Num
Edit
Delete

Successful
PC0
PC5
ICMP
0.000
N
0
(edit)
(delete)

