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MCA 2B

2001069

Computer Network

TMC - 203

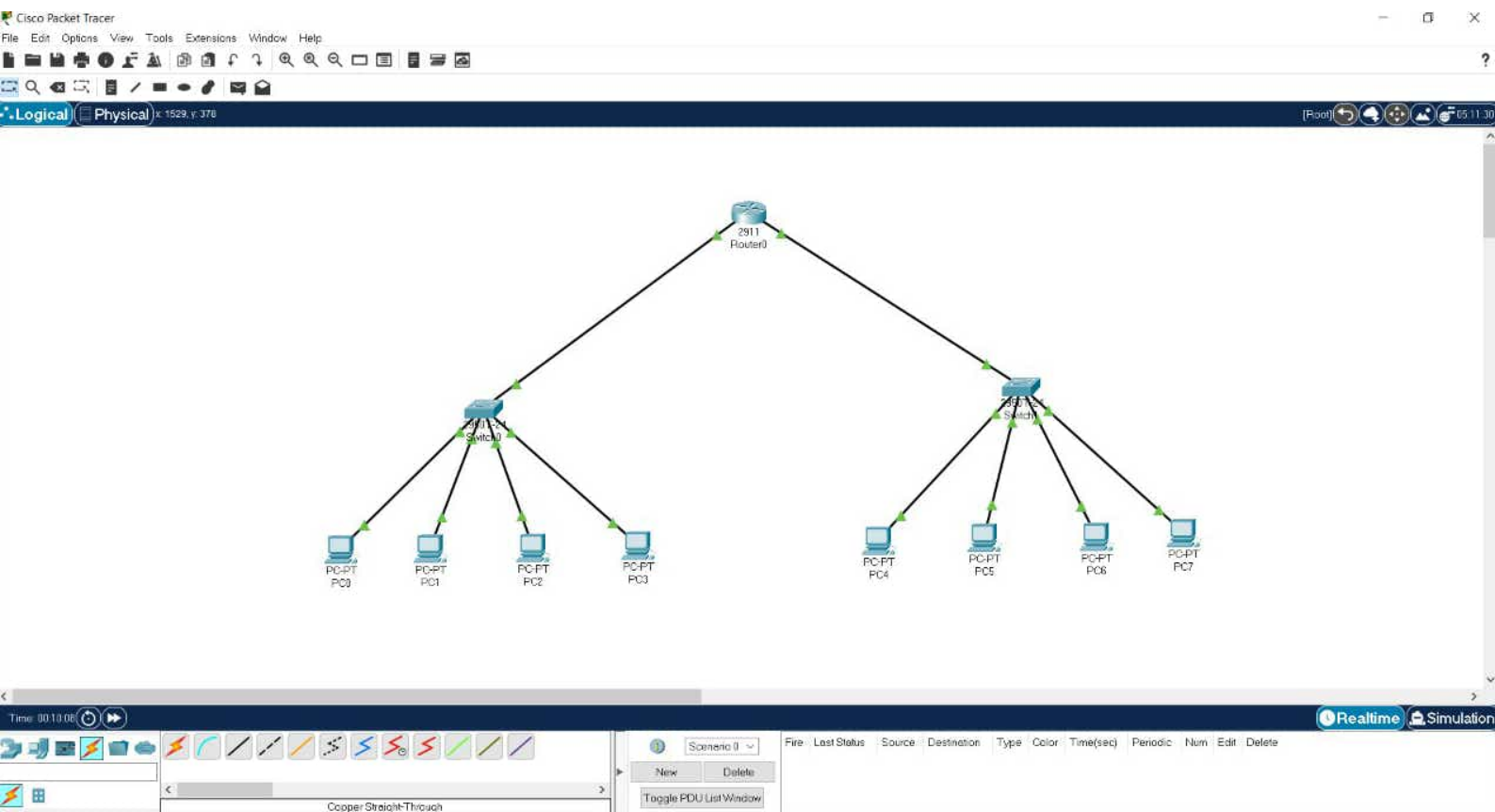
Q2.

Problem Statement :- To ^{show communication b/w} connect User 1 & User 5
of the network with 10 PCs.

Objective :- to understand how lan
using router work

2. Step

1. Create LAN 1 using 4 PCs & LAN 2 using 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 LAN 2 is 192.168.1.5
4. Sending PDU to check if connection is established or not.



Cisco Packet Tracer

File Edit Options View Tools Extensions Window Help

Logical Physical x:1560,y:377 [Root] 09:21:30

PC4

Physical Config Desktop Programming Attributes

P Configuration

Interface FastEthernet0

IP Configuration

☐ DHCP ☒ Static

IPv4 Address 192.168.1.1

Subnet Mask 255.255.255.0

Default Gateway 192.168.1.5

DNS Server 0.0.0.0

IPv6 Configuration

☐ Automatic ☒ Static

IPv6 Address

Link Local Address FE80::20218FF:FEA2:C30B

Default Gateway

DNS Server

802.1X

☐ Use 802.1X Security

Authentication M35

Username

Password

☐ Top

GEU

PC-PT PC0

PC-PT PC1

GEU

PC-PT PC6

PC-PT PC7

Time: 00:17:45:535 PLAY CONTROLS

Scenario 0

New Delete

Toggle PDU List Window

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

Event List Realtime Simulation

Cisco Packet Tracer

File Edit Options View Tools Extensions Window Help

Logical Physical x:539, y:494 [Root] 03.08.30

PC0

Physical Config Desktop Programming Attributes

P 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

Username

Password

Top

GEU

PC-PT PC0

PC-PT PC1

GEU

PC-PT PC6

PC-PT PC7

Time: 00:17:35.535 PLAY CONTROLS

Scenario 0

New Delete

Toggle PDU List Window

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

Event List Realtime Simulation

Cisco Packet Tracer

File Edit Options View Tools Extensions Window Help

Logical Physical x:1549,y:371 [Root] 13.05.30

2911 Router

GEU

GEU

PC-PT PC0

PC-PT PC1

PC-PT PC2

PC-PT PC3

PC-PT PC4

PC-PT PC5

PC-PT PC6

PC-PT PC7

GigabitEthernet0/24

Simulation Panel

Event List

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

Reset Simulation ☒ Constant Delay Captured to: 0.391 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, POP3v6, 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

Event List Realtime Simulation

Fire	Last Status	Source	Destination	Type	Color	Time(sec)	Periodic	Num	Edit	Delete
Successful		PC0	PC5	ICMP		0.000	N	0	(edit)	(delete)

Scenario 0

New Delete

Toggle PDU List Window

Cisco Packet Tracer

File Edit Options View Tools Extensions Window Help

Logical Physical x:1398,y:707

[Root] 09:35:30

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graph TD; Router[2911 Router] --- Switch0[GEU Switch0]; Router --- Switch1[GEU Switch1]; Switch0 --- PC0[PC-PT PC0]; Switch0 --- PC1[PC-PT PC1]; Switch0 --- PC2[PC-PT PC2]; Switch0 --- PC3[PC-PT PC3]; Switch1 --- PC4[PC-PT PC4]; Switch1 --- PC5[PC-PT PC5]; Switch1 --- PC6[PC-PT PC6]; Switch1 --- PC7[PC-PT PC7];
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Simulation Panel

Event List

Vis.	Time(sec)	Last Device	At Device	T
	0.000	-	PC0	
	0.001	PC0	Switch0	

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, Mirek, NDP, NETFLOW, NTP, OSPF, OSPFv6, PAgP, POP3, POP3, POP3-ED, PTP, RADIUS, REP, RIP, RIPv6, RTP, SSCP, SMTP, SNMP, SSH, STP, SYSLOG, TACACS, TCP, TFTP, Telnet, UDP, USB, VTP

Edit Filters Show All/None

Time: 00:17:45:535 PLAY CONTROLS

Scenario 3

New Delete

Toggle PDU List Window

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

In Progress: PC0 PC5 ICMP 0.000 N 0 (edit) (delete)

Cisco Packet Tracer

File Edit Options View Tools Extensions Window Help

Logical Physical x:1553, y:500 [Root] 13:23:00

2911 Router

GEU Switch0

GEU Switch1

PC-PT PC0

PC-PT PC1

PC-PT PC2

PC-PT PC3

PC-PT PC4

PC-PT PC5

PC-PT PC6

PC-PT PC7

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	
	0.391	-	Switch1	

Reset Simulation ☒ Constant Delay Captured to 0.391 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 TOP, 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

Event List Realtime Simulation

Fire	Last Status	Source	Destination	Type	Color	Time(sec)	Periodic	Num	Edit	Delete
	Successful	PC0	PC5	ICMP		0.000	N	0	(edit)	(delete)

Scenario 0

New Delete

Toggle PDU List Window