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Ques 1.

Ans → Here is an organization A with multiple departments. We design a network for the HR department and the size of the department is 10 users. And we also want communication between user number 1 and user number 5 of the network.

Following ~~we are~~ steps are required for this network which is given below.

Step 1: Firstly we take 10 devices (PC) and one switch and connect by ethernet wire.

Step 2: In this step we giving ip address in all 10 computers like as.

PC0 (user 1) - 10.0.0.1 (IP address)

Similarly giving different IP address all left PCs.

Step 3: In this step check connection by using ping command.
like as Ping 10.0.0.2

Step 4: In Realtime added Simple PDU(P) from PC0(user 1) to PC4(user 5).

Step 5: Go in Simulation and Play, it's showing data transfer. data travel from source (user 1) to destination (user 5).
After reached data in destination, the destination sent acknowledgement to the source.

Cisco Packet Tracer

File Edit Options View Tools Extensions Window Help

Logical Physical n: 1328, p: 431

[Floor] 03:48:00

Simulation Panel

Event List

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

Reset Simulation ☒ Constant Delay Captured to: 0.000 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, RIPv2, SCCP, SMTP, SNMP, SSH, STP, SYSLOG, TACACS, TCP, TFTP, Telnet, UDP, USB, VTP

Edit Filters Show All/None

Time: 00:07:22.747 PLAY CONTROLS

Scenario 0

New Delete

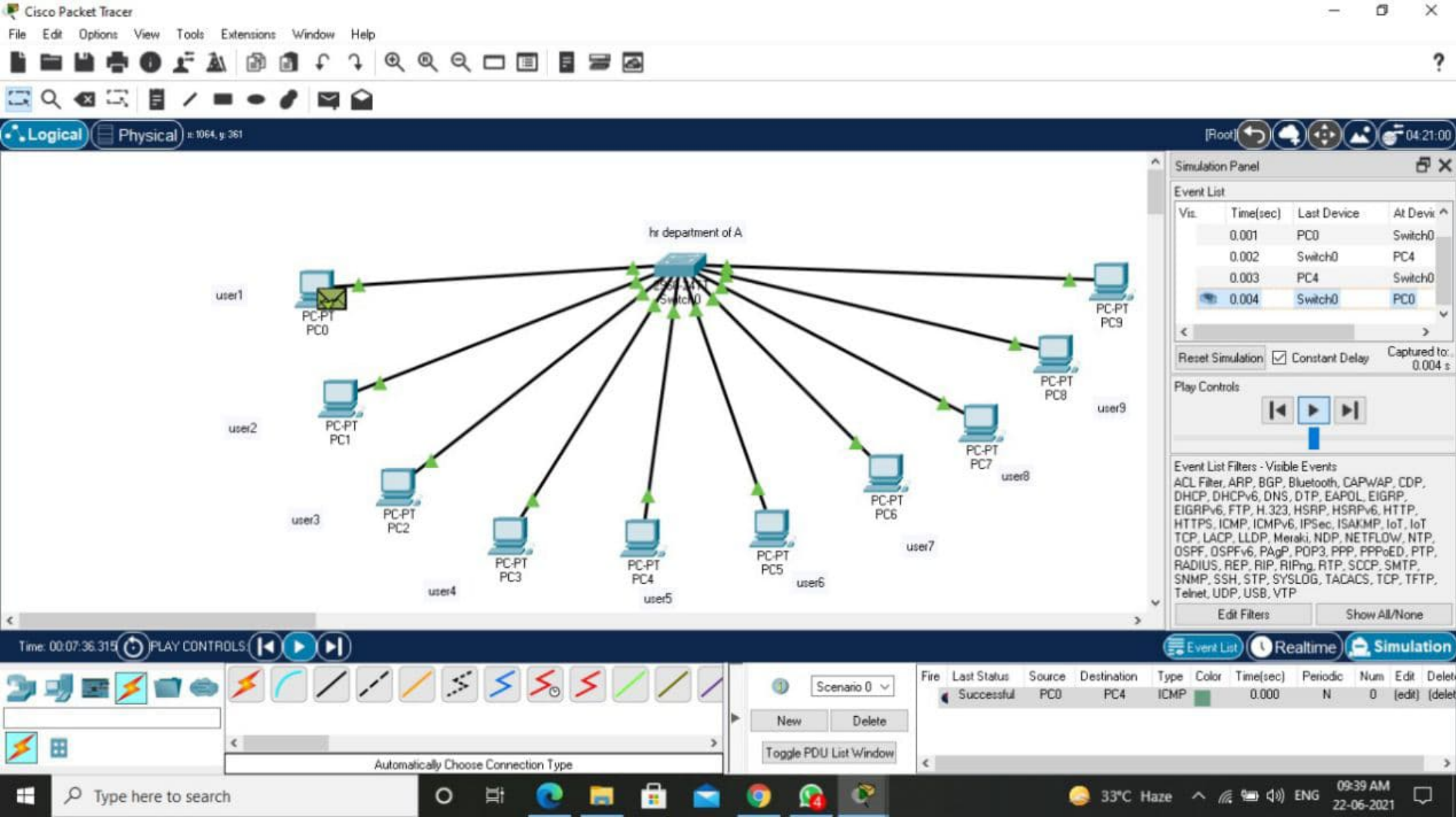
Toggle PDU List Window

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

In Progress		PC0	PC4	ICMP		0.000	N	0	(edit)	(delete)
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Automatically Choose Connection Type

33°C Haze 09:38 AM 22-06-2021



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Qus. 2

Ans → Here two organization in a city named GEU and GEHU, design a network between the SOC department of GEU and GEHU. and we have need show connection between user number 1 of GEU and user number 2 of GEHU.

Following steps are required which is given below.

Step 1: taking one router, two switch and 6 PC and connected by ethernet wire.

Step 2: Giving ip address for router and on port status.

 ip address in GigabitEthernet 0/0 → 10.0.0.1
 " " " GigabitEthernet 0/1 → 192.168.2.1

Step 3: Giving ip of all PC and with default gateway.

Step 4: Check connect by using Ping Command.

Step 5: ~~Go in Simulation~~ Realtime added simple PDU (P) from PC0 (user 1 of GEU department) to PC4 (user 2 of GEHU department).

Step 6: Go in simulation and play it is showing data transfer, after reached data in destination the destination sent acknowledgement to the source.

Cisco Packet Tracer

File Edit Options View Tools Extensions Window Help

Logical Physical n: 1249, p: 428

[Floor] 06:08:30

Simulation Panel

Event List

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

Reset Simulation ☒ Constant Delay Captured to: 0.000 s

Play Controls

Play Speed Slider

Event List

With, 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: 00:11:57:170 PLAY CONTROLS

Scenario 0

New Delete

Toggle PDU List Window

Fire	Last Status	Source	Destination	Type	Color	Time(sec)	Periodic	Num	Edit	Delete
	In Progress	PC0	PC4	ICMP		0.000	N	0	(edit)	(delete)

Automatically Choose Connection Type

33°C Haze 09:55 AM 22-06-2021

Cisco Packet Tracer

File Edit Options View Tools Extensions Window Help

Logical Physical n: 1249, g: 428

[Floor]

Simulation Panel

Event List

Vis.	Time(sec)	Last Device	At Device
	0.005	PC4	Switch1
	0.006	Switch1	Router0
	0.007	Router0	Switch0
	0.008	Switch0	PC0

Reset Simulation ☒ Constant Delay Captured to: 0.008 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, RIPv2, RIPv3, SCCP, SMTP, SNMP, SSH, STP, SYSLOG, TACACS, TCP, TFTP, Telnet, UDP, USB, VTP

Edit Filters Show All/None

Time: 00:11:57.178 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	PC4	ICMP		0.000	N	0	(edit)	(delete)
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Automatically Choose Connection Type

33°C Haze 09:55 AM 22-06-2021