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Q.1)

Problem statement - There is an organisation X with multiple departments. Design a network for the HR department & size of the department is 10 users. Also show the communication b/w user number 1 & user number 5 of the network.

Objective - Need to create a visual LAN environment in Cisco Packet Tracer that will show communication b/w a users.

Steps

Step 1 - We will place notes first : organization X HR Department & user 1 to user 10.

Step 2 - 2911 routers & also add switch & connect them both at the top

Step 3 - Add 10 machine named from PC0 to PC9 & connect all machine to switch.

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Step 4: Assign IP address to every machine

Step 4(a): In our case we will assign IP 192.168.1.1 to PC0 & IP 192.168.1.5 to PC4 which is user 5.

Step 5: Now there are 2 ways to verify the connection b/w 2 users network.

First method: By Pinging by its system ID & if reply comes to its working state.

Second method: By sending PDU packets from 1 to user 5.

Step 6: We can now see both system are getting pinged through IP on other system & we also being send to both system.

Step 7: Hence we are able to communicate b/w 2 users User 1 & user 5 on HR Department.

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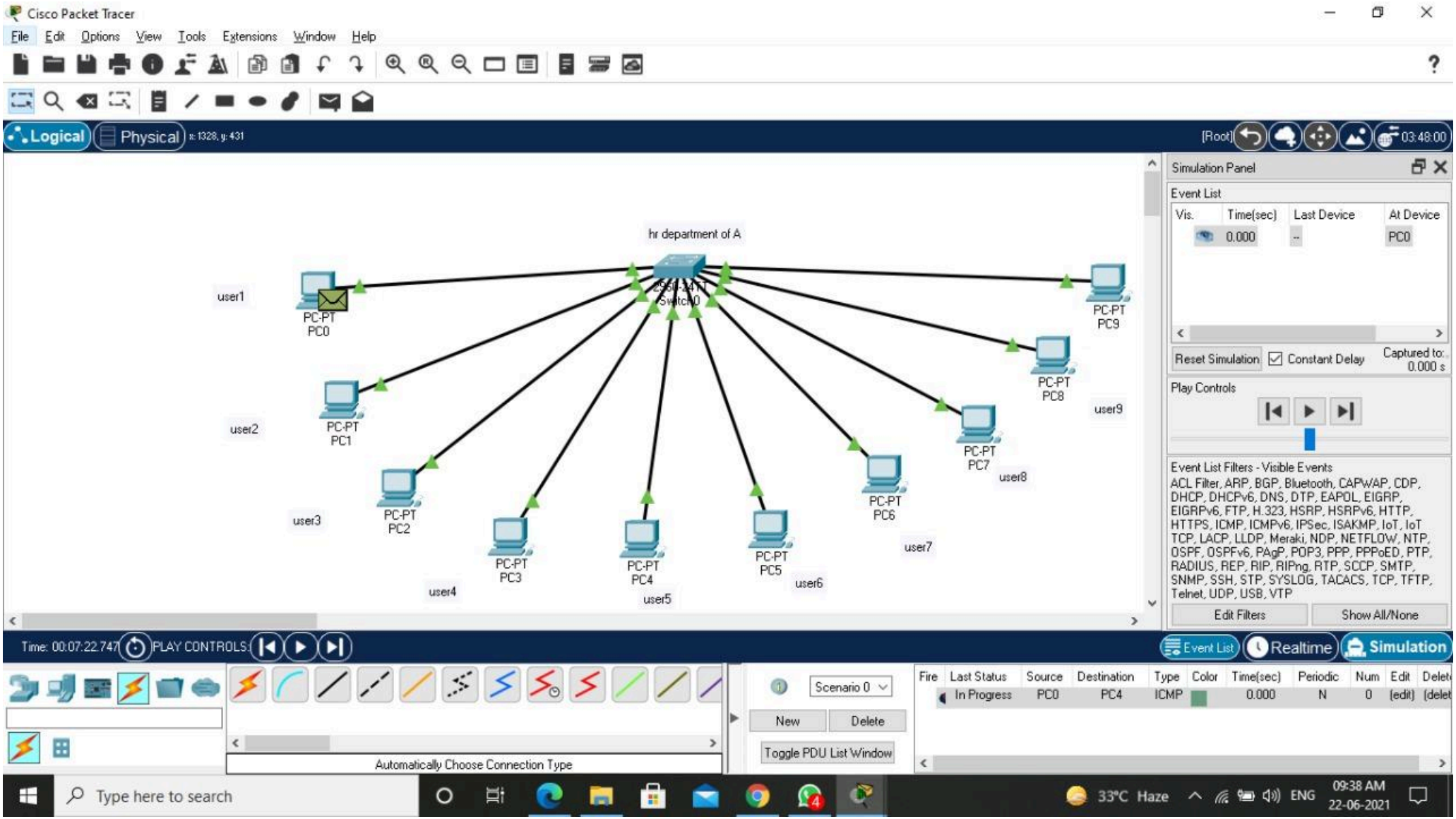
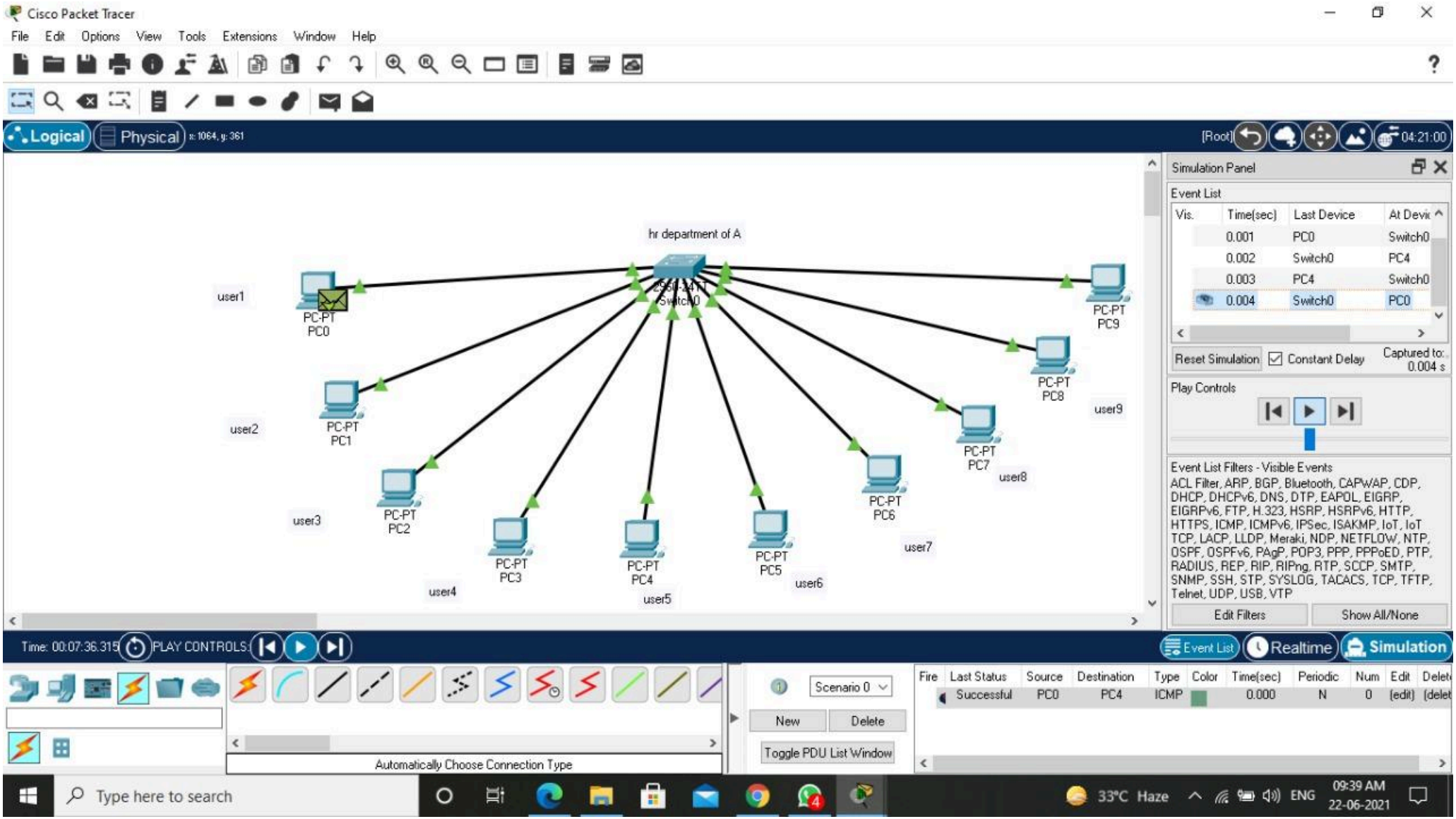

Cisco Packet Tracer
File Edit Options View Tools Extensions Window Help
Logical
Physical
x: 1328, y: 431
[Root]
03:48:00
hr department of A
2950-24TT
Switch0
PC-PT PC0
PC-PT PC1
PC-PT PC2
PC-PT PC3
PC-PT PC4
PC-PT PC5
PC-PT PC6
PC-PT PC7
PC-PT PC8
PC-PT PC9
user1
user2
user3
user4
user5
user6
user7
user8
user9
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, PPPoED, 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: 00:07:22.747
PLAY CONTROLS:
Event List
Realtime
Simulation
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) (delet
Automatically Choose Connection Type
Type here to search
33°C Haze
ENG
09:38 AM
22-06-2021


Cisco Packet Tracer
File Edit Options View Tools Extensions Window Help
Logical
Physical
hr department of A
Switch0
PC-PT PC0
PC-PT PC1
PC-PT PC2
PC-PT PC3
PC-PT PC4
PC-PT PC5
PC-PT PC6
PC-PT PC7
PC-PT PC8
PC-PT PC9
user1
user2
user3
user4
user5
user6
user7
user8
user9
Simulation Panel
Event List
Vis. Time(sec) Last Device At Devic
0.001 PC0 Switch0
0.002 Switch0 PC4
0.003 PC4 Switch0
0.004 Switch0 PC0
Reset Simulation
Constant Delay
Captured to: 0.004 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, PPPoED, 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: 00:07:36.315
PLAY CONTROLS:
Event List
Realtime
Simulation
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) (delet
Automatically Choose Connection Type
Type here to search
33°C Haze
ENG
09:39 AM
22-06-2021