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Course: MCA(B)

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Q.11

Problem Statement: There is an organisation A with multiple departments. Design a network for the HR department and the size of the department is 10 user. Also show the communication between user number 1 and user number five of the network.

Objective: To implement or create a network inside any building using switch, wires and different PC's.

Description:

Steps:

Step 1: Design a Network

Step 2: Assign Ip to every PC

Step 3: Confirm the network by sending message from PC1 to PC5.

Shubham

Logical Physical x 1411, y 555

Simulation Panel

Event List

Vis	Time(sec)	Last Device	At Device	Type
	0.000	-	PC1	ICMP
	0.001	PC1	Switch2	ICMP
	0.002	Switch2	PC5	ICMP

Reset Simulation ☒ Constant Delay Captured to: 0.002 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, iST, iST, TCP, LACP, LLDP, Meraki, NDP, NETFLOW, NTP, OSPF, OSPFv6, Page, 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: 00:14:23.529 PLAY CONTROLS

Scenario 0

New Delete

Toggle PDU List Window

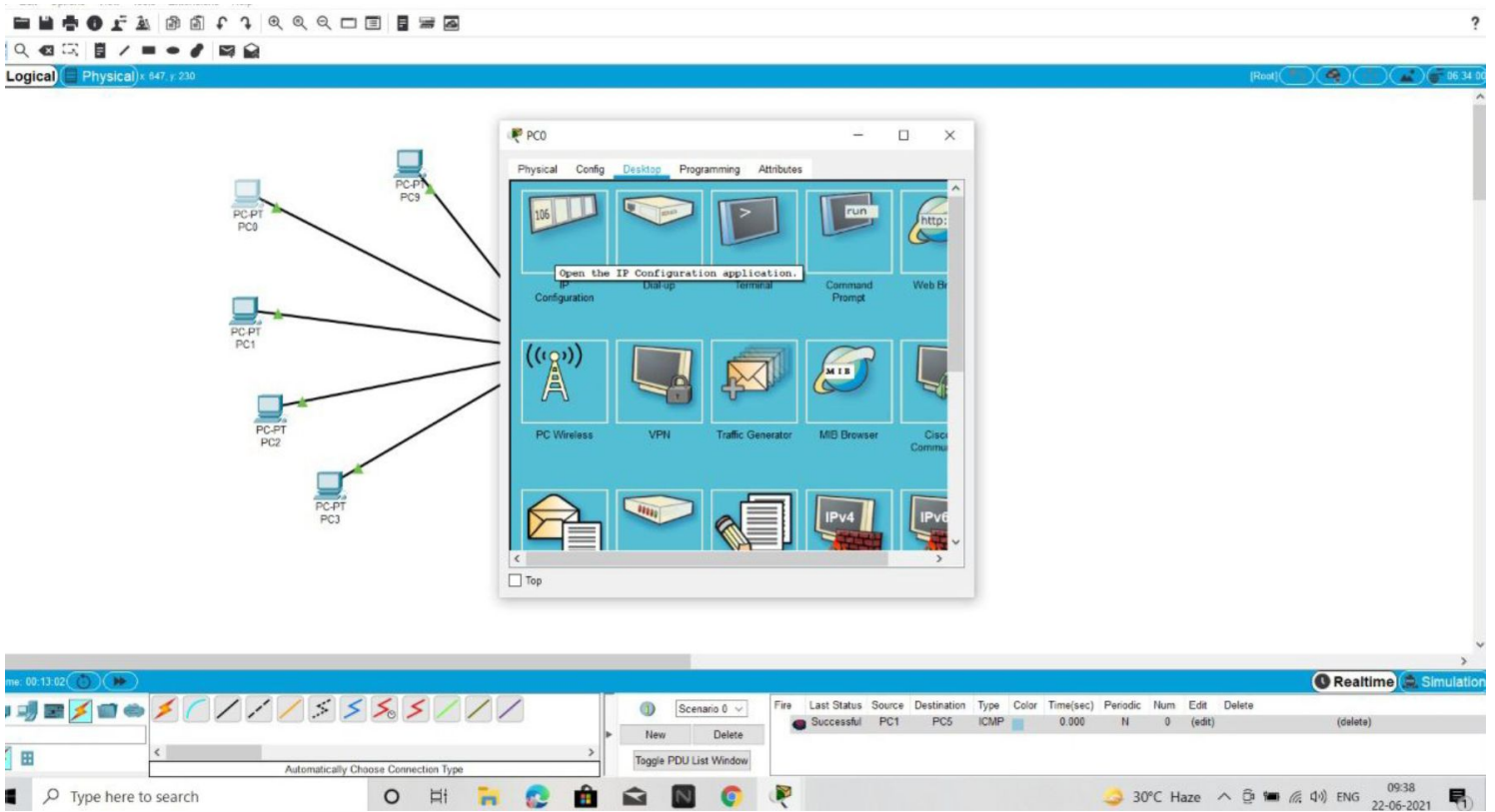
Automatically Choose Connection Type

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

In Progress PC1 PC5 ICMP 0.000 N 0 (edit) (delete)

Type here to search

30°C Haze 09:41 22-06-2021



The screenshot displays a network simulation environment. On the left, a topology diagram shows five PC nodes labeled PC-PT PC0, PC-PT PC1, PC-PT PC2, PC-PT PC3, and PC-PT PC9. These nodes are interconnected with a central switch or router. A configuration window for PC0 is open, showing the following settings:

- Interface:** FastEthernet0
- IP Configuration:**
  - ☒ DHCP
  - ☐ Static
  - IPv4 Address: 198.68.10.1
  - Subnet Mask: 255.255.255.0
  - Default Gateway: 0.0.0.0
  - DNS Server: 0.0.0.0
- IPv6 Configuration:**
  - ☐ Automatic
  - ☒ Static
  - IPv6 Address: [empty]
  - Link Local Address: FE80::200:CFF:FE8B:5635
  - Default Gateway: [empty]
  - DNS Server: [empty]
- ☐ 802.1X
- ☐ Use 802.1X Security
- Authentication: [empty]
- ☐ Top

The bottom of the interface shows a command line area with the text "Automatically Choose Connection Type". To the right, a table displays network events:

Fire	Last Status	Source	Destination	Type	Color	Time(sec)	Periodic	Num	Edit	Delete
Successful	PC1	PC5	ICMP			0.000	N	0	(edit)	(delete)

The system tray at the bottom indicates the time is 09:39 on 22-06-2021, with weather conditions of 30°C Haze.

Logical Physical 1403, 7 863

Simulation Panel

Event List

Vis.	Time(sec)	Last Device	At Device	Type
	0.000	--	PC1	ICMP
	0.001	PC1	Switch2	ICMP
	0.002	Switch2	PC5	ICMP
	0.003	PC5	Switch2	ICMP
	0.004	Switch2	PC1	ICMP

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, PPPoE, PTP, RADIUS, REP, RIP, RIPv2, RTP, SCCP, SMTP, SNMP, SSH, STP, SYSLOG, TACACS, TCP, TFTP, Telnet, UDP, USB, VTP

Edit Filters Show All/None

Time: 00:14:35.525 PLAY CONTROLS

Scenario 0

New Delete

Toggle PDU List Window

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

Successful PC1 PC5 ICMP 0.000 N 0 (edit) (delete)

30°C Haze 09:42 22-06-2021