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Course - MCA 2nd Sem

Section - B

University roll no - 2001127

Subject - Computer Networks

Subject Code - PMC-203

Mid Semester

Practical

Problem Statement 1 - There is an Organisation A with multiple departments. Design a network for the HR department and the size of the department is 10 users. Also, show the communication between user number 1 and user no. 5 of the network.

Objective - Understanding of LAN network

Description - How to add connections between different computer and other devices in the same network.

Steps 1 - go to [End Devices] which is located at left bottom or use $\text{ctrl} + \text{alt} + \text{v}$ to open after that right side new option will appear & drag and drop 10 pc to working area & one switch because the switch will help to establish LAN connection between users/PC's.

Step 2 - connect them with copper straight and give different fast ethernet connection. ^{2.}

Step 3 - give all user/pc ip addresses and subnet mask by manually.

Step 4 - In the last we have to test the connection by ping command. Open command prompt by clicking on one pc/user then go to desktop and enter ping command with Ip address of 5th user/pc.

Cisco Packet Tracer

File Edit Options View Tools Extensions Window Help

Logical Physical 1328, 431

[Root] 03:48:00

hr department of A

Switch0

user1 PC-PT PC0

user2 PC-PT PC1

user3 PC-PT PC2

user4 PC-PT PC3

user5 PC-PT PC4

user6 PC-PT PC5

user7 PC-PT PC6

user8 PC-PT PC7

user9 PC-PT PC8

PC-PT PC9

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, 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

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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Cisco Packet Tracer

File Edit Options View Tools Extensions Window Help

Logical Physical z: 1064, y: 361

[Root] 04:21:00

hr department of A

Switch0

user1 PC-PT PC0

user2 PC-PT PC1

user3 PC-PT PC2

user4 PC-PT PC3

user5 PC-PT PC4

user6 PC-PT PC5

user7 PC-PT PC6

user8 PC-PT PC7

user9 PC-PT PC8

PC-PT PC9

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, PPTP, 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

Scenario 0

New Delete

Toggle PDU List Window

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

Successful	PC0	PC4	ICMP		0.000	N	0	(edit)	(delete)
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