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COURSE - MCAB

Roll No - 20711082

Subject - Computer Networks (TMC-203)

### \* Problem Statement:

There is an organization A with multiple departments. Design a network for HR Department and the size of the Department is 10 users. Also show the communication between User no. 5 and User No. 1 of the network.

### \* Objective Understanding of LAN Network

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

Steps →

Step 1 ~~Create~~

Step 1 Go to [End Devices] which is located at left bottom or we use  $\text{ctrl} + \text{alt} + \text{v}$  to open after that right side new options will appear and drag & drop 10 PC to working area one switch because the switch will help.

Step 2 Connect them with copper straight and give different fast ethernet connections.

Step 3 Give all user/PC IP addresses.

Step 4 - In the last we have to test the connection by ping command. Open cmd and enter ping command with IP address of 5<sup>th</sup> user/PC.

Cisco Packet Tracer

File Edit Options View Tools Extensions Window Help

Logical Physical 100A p 361

[Root] 04:21:00

hi department of A:

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

Switch0

Simulation Panel

Event List

Vis.	Time(sec)	Last Device	At Device
	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, LACP, LLDP, Meraki, NDP, NETFLOW, NTP, OSPF, OSPFv6, PAgg, POP3, PPP, PPPoE, FTP, 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

File	Last Status	Source	Destination	Type	Color	Time(sec)	Periodic	Num	Edit	Delete
	Successful	PC0	PC4	ICMP		0.000	N	0	[edit]	[delete]

Cisco Packet Tracer

File Edit Options View Tools Extensions Window Help

Logical Physical x: 0.25 y: 4.31

Simulation Panel

Event List

Vis.	Time(sec)	Last Device	At Device
<input checked="" type="checkbox"/>	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, Mmrsk, 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

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