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Course → MCA

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Subject → Computer Networks.

Ques-1 Problem statement (→) There is an organisation A with multiple department. Design a network for the HR Dept and the size of the Dept is 10 users. Also show the communication b/w user 1 & user 5 of the network.

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Solution

Step 1 → Drag and drop 10 PC.

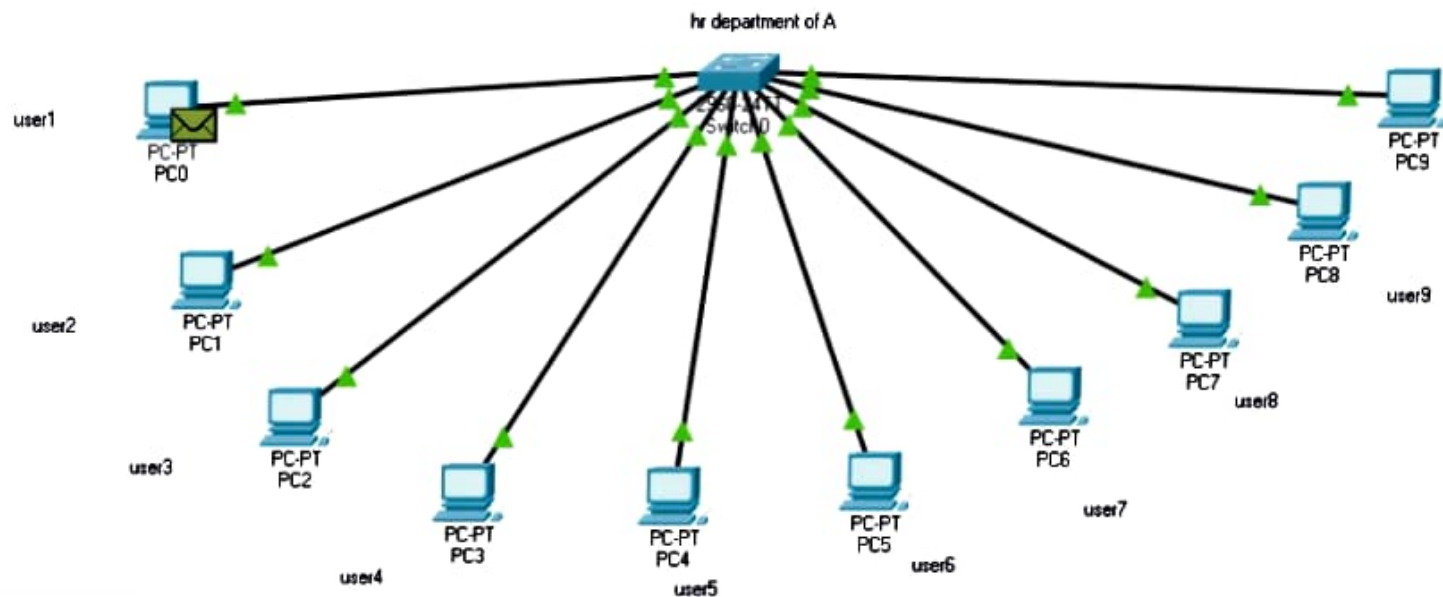
Step 2 → Drag 1 Switch

Step 3 → Connect all PC's with Switch with the help of Ethernet wires

Step 4 → Give all PC's IP address

Step 5 → Use ping command in Command prompt to check connectivity

→ ping 192.168.10.5



Simulation Panel

Event List

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

Reset Simulation

☒ Constant Delay

Captured
0.000

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

Packet Tracer PC Command Line 1.0

C:\>192.168.10.5

Invalid Command.

C:\> ping 192.168.10.5

Pinging 192.168.10.5 with 32 bytes of data:

Reply from 192.168.10.5: bytes=32 time<1ms TTL=128

Reply from 192.168.10.5: bytes=32 time<1ms TTL=128

Reply from 192.168.10.5: bytes=32 time=13ms TTL=128

Reply from 192.168.10.5: bytes=32 time=10ms TTL=128

Ping statistics for 192.168.10.5:

Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),

Approximate round trip times in milli-seconds:

Minimum = 0ms, Maximum = 13ms, Average = 5ms

C:\>

Physical Config Desktop Programming Attributes

IP Configuration

Interface FastEthernet0

IP Configuration

☐ DHCP☒ Static

IPv4 Address

192.168.10.1

Subnet Mask

255.255.255.0

Default Gateway

0.0.0.0

DNS Server

0.0.0.0

IPv6 Configuration

☐ Automatic☒ Static

IPv6 Address

Link Local Address

FE80::201:96FF:FED6:197B

Default Gateway

DNS Server

802.1X

☐ Use 802.1X Security

Authentication

MD5

Username

Password



Physical Config Desktop Programming Attributes

IP Configuration

Interface FastEthernet0

IP Configuration

☐ DHCP ☒ Static

IPv4 Address 192.168.10.5

Subnet Mask 255.255.255.0

Default Gateway 0.0.0.0

DNS Server 0.0.0.0

IPv6 Configuration

☐ Automatic ☒ Static

IPv6 Address /

Link Local Address FE80:2E0:F9FF:FEE9:2745

Default Gateway

DNS Server

802.1X

☐ Use 802.1X Security

Authentication MD5

Username

Password

Packet Tracer PC Command Line 1.0

C:\>ping 198.168.10.1

Pinging 198.168.10.1 with 32 bytes of data:

Request timed out.

Request timed out.

Request timed out.

Request timed out.

Ping statistics for 198.168.10.1:

Packets: Sent = 4, Received = 0, Lost = 4 (100% loss),

C:\>ping 192.168.10.1

Pinging 192.168.10.1 with 32 bytes of data:

Reply from 192.168.10.1: bytes=32 time=1ms TTL=128

Reply from 192.168.10.1: bytes=32 time=9ms TTL=128

Reply from 192.168.10.1: bytes=32 time=3ms TTL=128

Reply from 192.168.10.1: bytes=32 time=10ms TTL=128

Ping statistics for 192.168.10.1:

Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),

Approximate round trip times in milli-seconds:

Minimum = 1ms, Maximum = 10ms, Average = 5ms

C:\>

[Root] 12.4

Realtime

Simulation

ination Type Color Time(sec) Periodic Num Edit D

Top

Toggle PDU List Window

Automatically Choose Connection Type