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Experiment no:2

Configuration of Topologies using Packet Tracer (Star, Mesh, Tree)

AIM:

Configuration of Topologies star, mesh, tree using Packet Tracer.

REQUIREMENTS:

1. End device - They are the devices through which we can pass message from one device to another and they are interconnected.
2. Switch/Hub - Interface Between two devices.
3. Cable - Used to connect two devices.

Procedure:

STEP 1: Click on end devices, select generic Pc's drag and drop it on the window. Click on SWITCH drag and drop it on the window.

STEP 2: Select the straight through cable and connect all end device to switch. Assign the IP address for all end devices. (Double click the end device Select → desktop → IP configuration static)

STEP 3: Now set the IP address to Host A (192.168.1.1) in static mode. Similarly set IP address for Host B (192.168.1.2) and Host C (192.168.1.3)

STEP 5: To view the IP address, give ipconfig command in command prompt. Using ping command, we can establish communication between two host devices.

STEP 6: Now display the packet transmission in simulation mode.

Star:

Cisco Packet Tracer

File Edit Options View Tools Extensions Window Help

Logical Physical x: 1246, y: 691

Root 22:11:00

Simulation Panel

Event List

Vis.	Time(sec)	Last Device
	308.521	Hub1
	308.521	Hub1
	308.521	Hub1
	308.522	PC1
	308.523	Hub1
	308.523	Hub1
	308.523	Hub1
	308.523	Hub1

Reset Simulation Constant Delay Captured to: 769.051 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, Telet, UDP, USB, VTP

Edit Filters Show All/None

Time: 03:10:38.549 PLAY CONTROLS

Scenario 0

New Delete

Toggle PDU List Window

Copper Straight-Through

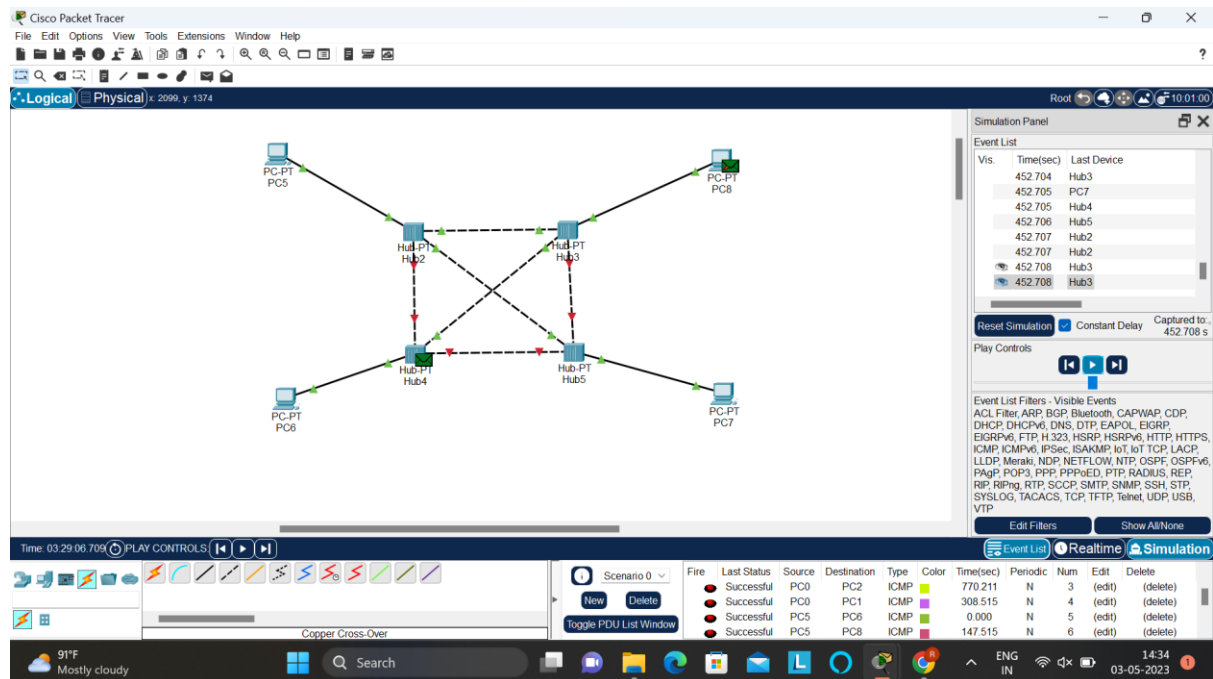
Fire	Last Status	Source	Destination	Type	Color	Time(sec)	Periodic	Num	Edit	Delete
	Successful	PC0	PC3	ICMP		0.000	N	0	(edit)	(delete)
	Successful	PC0	PC4	ICMP		0.000	N	1	(edit)	(delete)
	Failed	PC0	PC2	ICMP		0.000	N	2	(edit)	(delete)
	Successful	PC0	PC2	ICMP		770.211	N	3	(edit)	(delete)

91°F Mostly cloudy

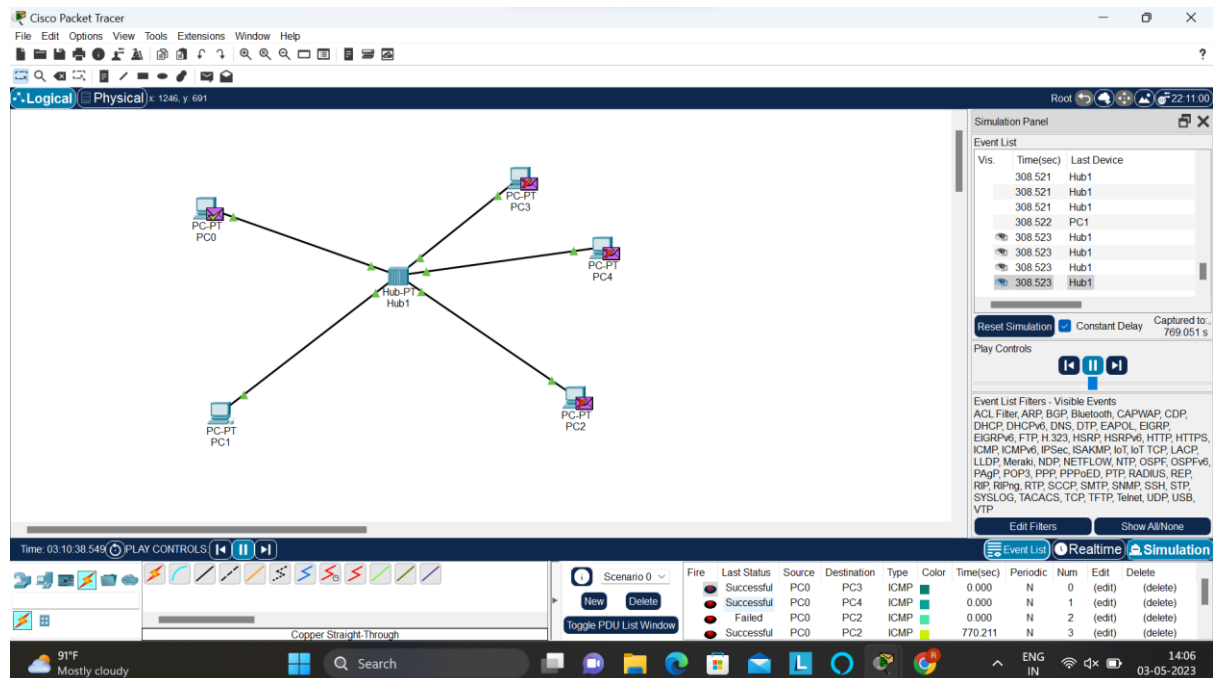
Search

ENG IN 14:06 03-05-2023

Mesh:



tree:



RESULT:

Configuration of Topologies using Packet Tracer communication star, mesh, tree is verified successful.