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Q-1 There is an org - - - - - of the network

Objective → The objective is to establish connection b/w the two organizations with the help of wires and networking devices.

Steps -

- 1) First Place PC, routers & switch on the screen.
- 2) Then connect them, using copper wire.
- 3) Connect switch and router with wires.
- 4) Then start configuring the devices.

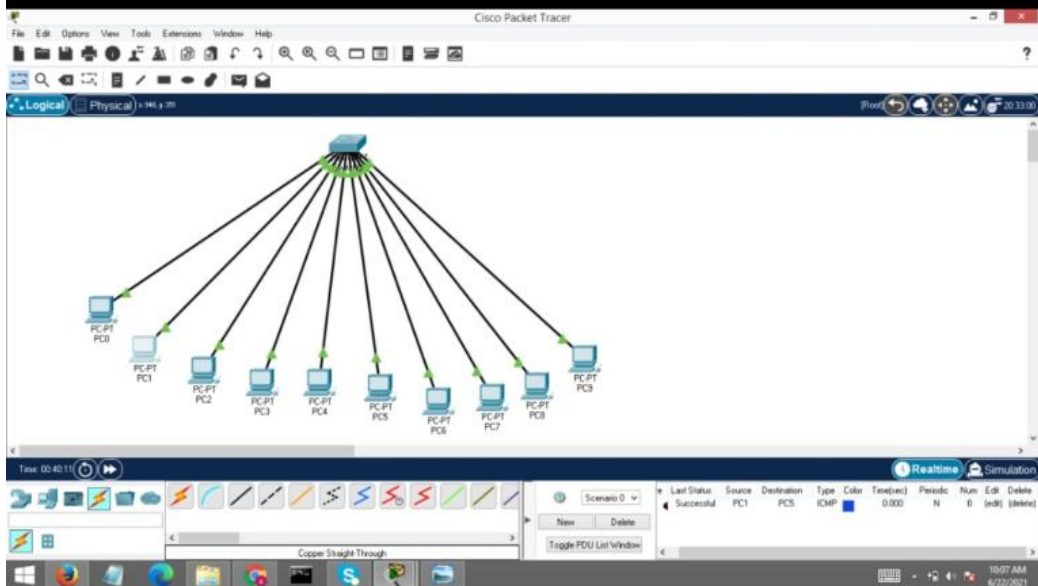
10:21

Bluetooth, Signal, 4G, 21



You

11 minutes ago



10:21

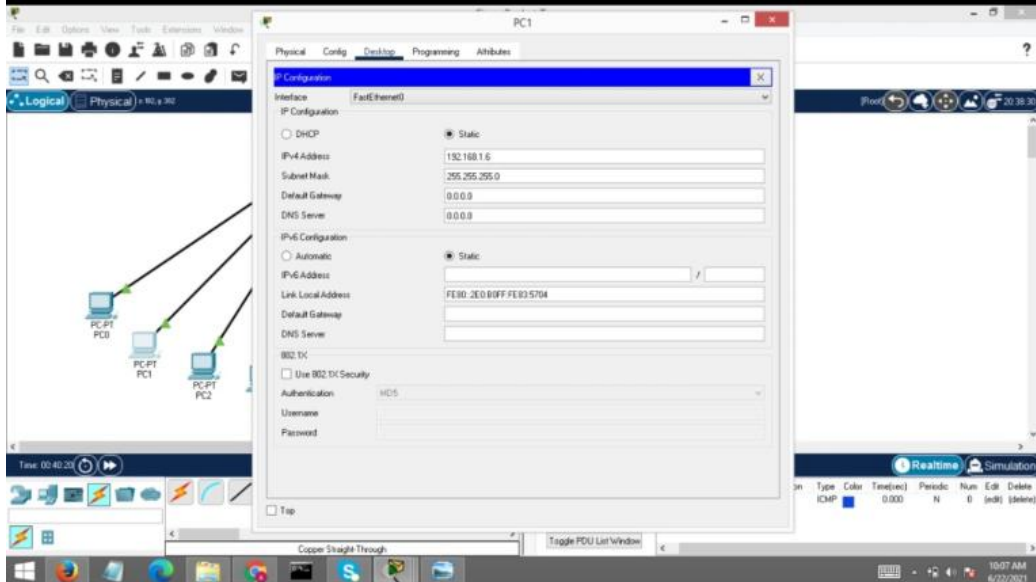


Bluetooth, Signal, Wi-Fi, 4G, Battery (21%)



You

11 minutes ago



10:20

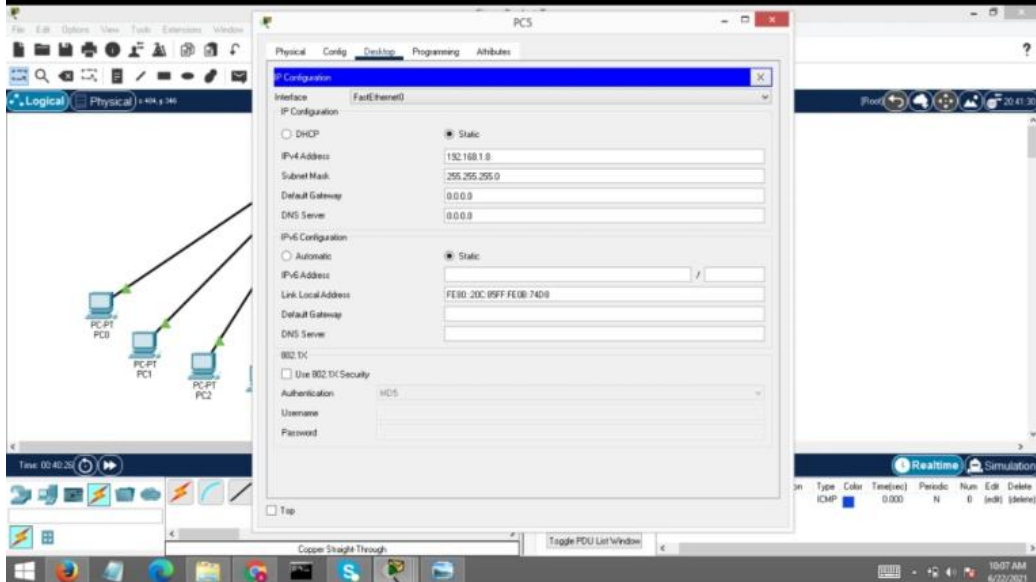


Bluetooth, Signal, Wi-Fi, 4G, Battery (21%)



You

11 minutes ago



Q-2 There are two organizations in a city named GEU & GEHU ---
--- no. 1 of GEU and no. 2 of GEHU.

Q-2 Steps for network creation -

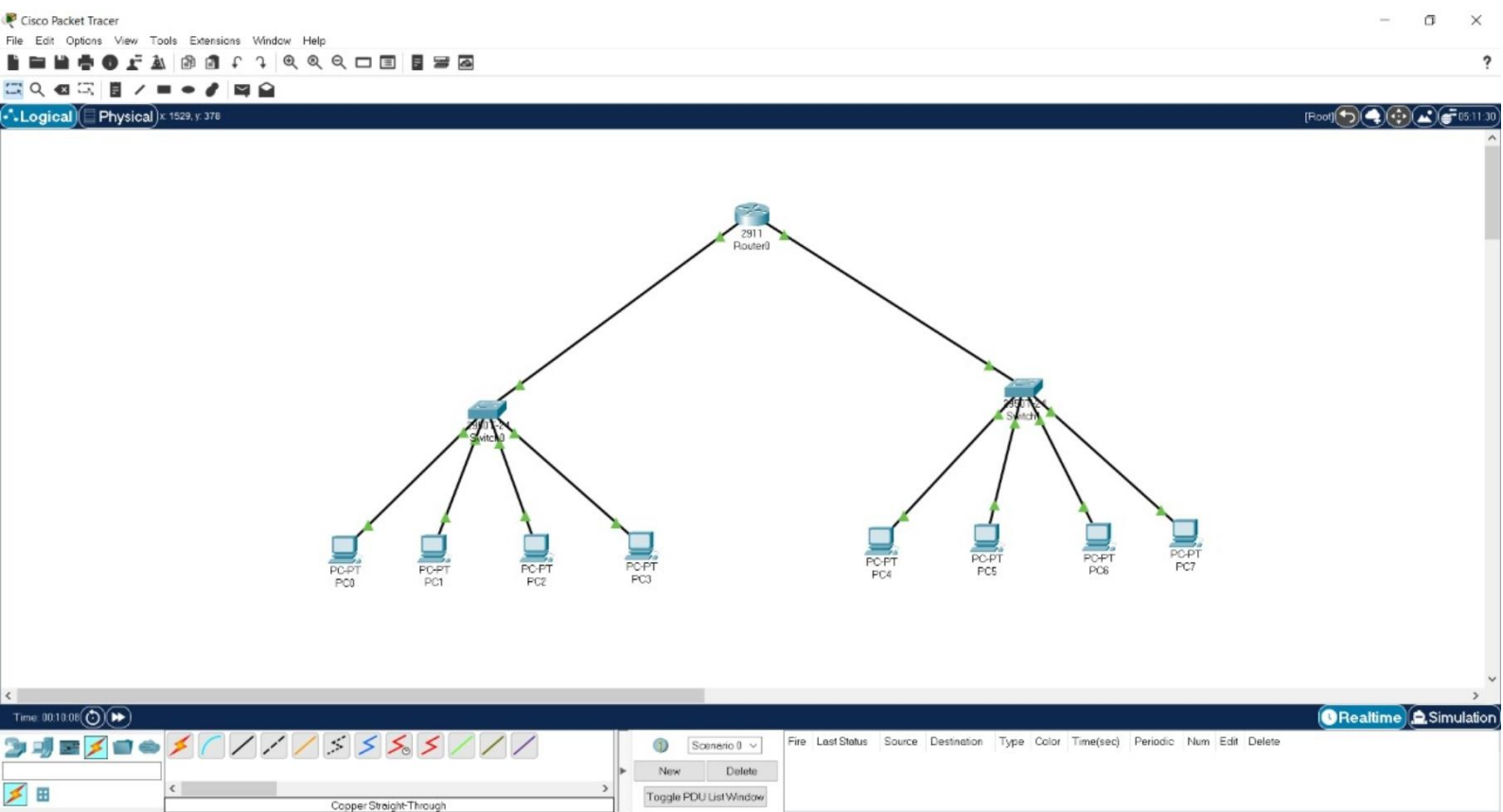
Step 1 → Create LAN-1 with 4 PCs and create LAN-2 with 4 PCs

Step 2 → Connect both LAN with router and configure the router.

Step 3 → Default gateway for LAN-1 is 10.0.0.5

Default gateway for LAN-2 is 192.168.1.5

Step-4 Sending PDU to see if connection is established.



Cisco Packet Tracer

File Edit Options View Tools Extensions Window Help

Logical Physical x 539, y 494

[Root] 09:08:30

PC0

Physical Config Desktop Programming Attributes

P Configuration

Interface FastEthernet0

IP Configuration

☐ DHCP ☒ Static

IPv4 Address 10.0.0.1

Subnet Mask 255.0.0.0

Default Gateway 10.0.0.5

DNS Server 0.0.0.0

IPv6 Configuration

☐ Automatic ☒ Static

IPv6 Address

Link Local Address FE80:2E0:A3FF:FE11:85AE

Default Gateway

DNS Server

802.1X

☐ Use 802.1X Security

Authentication MCR

Username

Password

☐ Top

GEU

PC-PT PC0

PC-PT PC1

GEU

PC-PT PC6

PC-PT PC7

Time: 00:17:35.636

PLAY CONTROLS

Scenario 0

New Delete

Toggle PDU List Window

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

Copper Straight-Through

Event List Realtime Simulation

Cisco Packet Tracer

File Edit Options View Tools Extensions Window Help

Logical Physical x: 1560, y: 377

PC4

Physical Config Desktop Programming Attributes

P Configuration

Interface FastEthernet0

IP Configuration

☐ DHCP ☒ Static

IPv4 Address 192.168.1.1

Subnet Mask 255.255.255.0

Default Gateway 192.168.1.5

DNS Server 0.0.0.0

IPv6 Configuration

☐ Automatic ☒ Static

IPv6 Address

Link Local Address FE80::202:18FF:FEA2:C3DB

Default Gateway

DNS Server

802.1X

☐ Use 802.1X Security

Authentication MCR

Username

Password

☐ Top

GEU

PC-PT PC0

PC-PT PC1

GEU

PC-PT PC6

PC-PT PC7

Time: 00:17:45.936

PLAY CONTROLS

Scenario 0

New Delete

Toggle PDU List Window

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

Copper Straight-Through

Event List Realtime Simulation

Cisco Packet Tracer

File Edit Options View Tools Extensions Window Help

Logical Physical x: 1549, y: 371

[Foot]

2911 Router0

GEU

GEU

PC-PT PC0

PC-PT PC1

PC-PT PC2

PC-PT PC3

PC-PT PC4

PC-PT PC5

PC-PT PC6

PC-PT PC7

Simulation Panel

Event List

Vis.	Time(sec)	Last Device	At Device	T
	0.000	-	PC0	
	0.001	PC0	Switch0	
	0.002	Switch0	Router0	
	0.003	Router0	Switch1	
	0.004	Switch1	PC5	
	0.005	PC5	Switch1	
	0.006	Switch1	Router0	
	0.007	Router0	Switch0	
	0.008	Switch0	PC0	
	0.391	-	Switch1	

Reset Simulation ☒ Constant Delay Captured to 0.391 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: 00:17:46.016 PLAY CONTROLS

Scenario 0

New Delete

Toggle PDU List Window

Fire	Last Status	Source	Destination	Type	Color	Time(sec)	Periodic	Num	Edit	Delete
	Successful	PC0	PC5	ICMP		0.000	N	0	(edit)	(delete)

Cisco Packet Tracer
File Edit Options View Tools Extensions Window Help

Logical Physical

Simulation Panel
Event List

Vis.	Time(sec)	Last Device	At Device	T
	0.000	-	PC0	
	0.001	PC0	Switch0	

Reset Simulation
Constant Delay
Capturing

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, Mmrk, 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

Time: 00:17:45.636
PLAY CONTROLS

Copper Straight-Through

Scenario 0
New
Delete
Toggle PDU List Window

Fire	Last Status	Source	Destination	Type	Color	Time(sec)	Periodic	Num	Edit	Delete
	In Progress	PC0	PC5	ICMP		0.000	N	0	(edit)	(delete)

Cisco Packet Tracer

File Edit Options View Tools Extensions Window Help

Logical Physical x 1553, y 500

[Foot]

Simulation Panel

Event List

Vis.	Time(sec)	Last Device	At Device	T
	0.000	-	PC0	
	0.001	PC0	Switch0	
	0.002	Switch0	Router0	
	0.003	Router0	Switch1	
	0.004	Switch1	PC5	
	0.005	PC5	Switch1	
	0.006	Switch1	Router0	
	0.007	Router0	Switch0	
	0.008	Switch0	PC0	
	0.391	-	Switch1	

Reset Simulation ☒ Constant Delay Captured to 0.391 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, PAgg, 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: 00:17:46.016 PLAY CONTROLS

Scenario 0

New Delete

Toggle PDU List Window

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

Successful	PC0	PC5	ICMP		0.000	N	0	(edit)	(delete)
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Connex Strainth-Through