Name - Himanshu Talukdar

Course - MCA - 2nd C

Student ID - 20711191

Q-1 Ans There is an organisation A with multiple organisation. 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 number 5 of the network

Ans -

Objective - To create a LAN with 10 users.

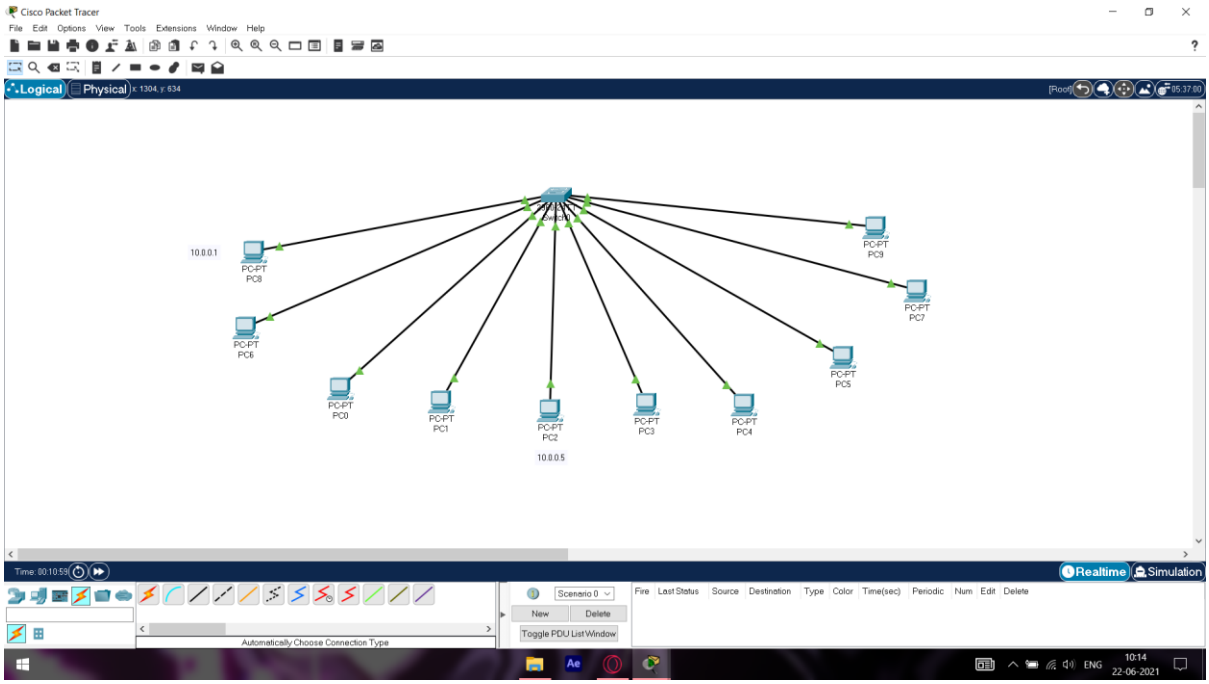
Steps for network creation -

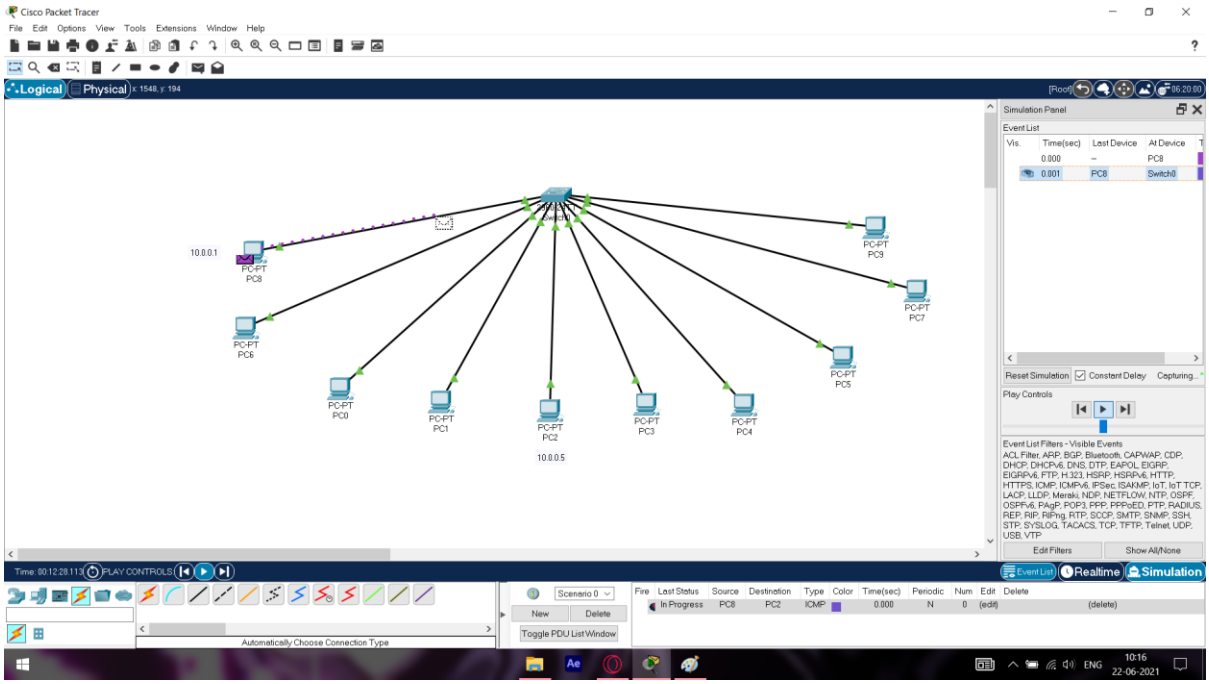
Step 1 - Create a LAN using switch with 10 PCs.

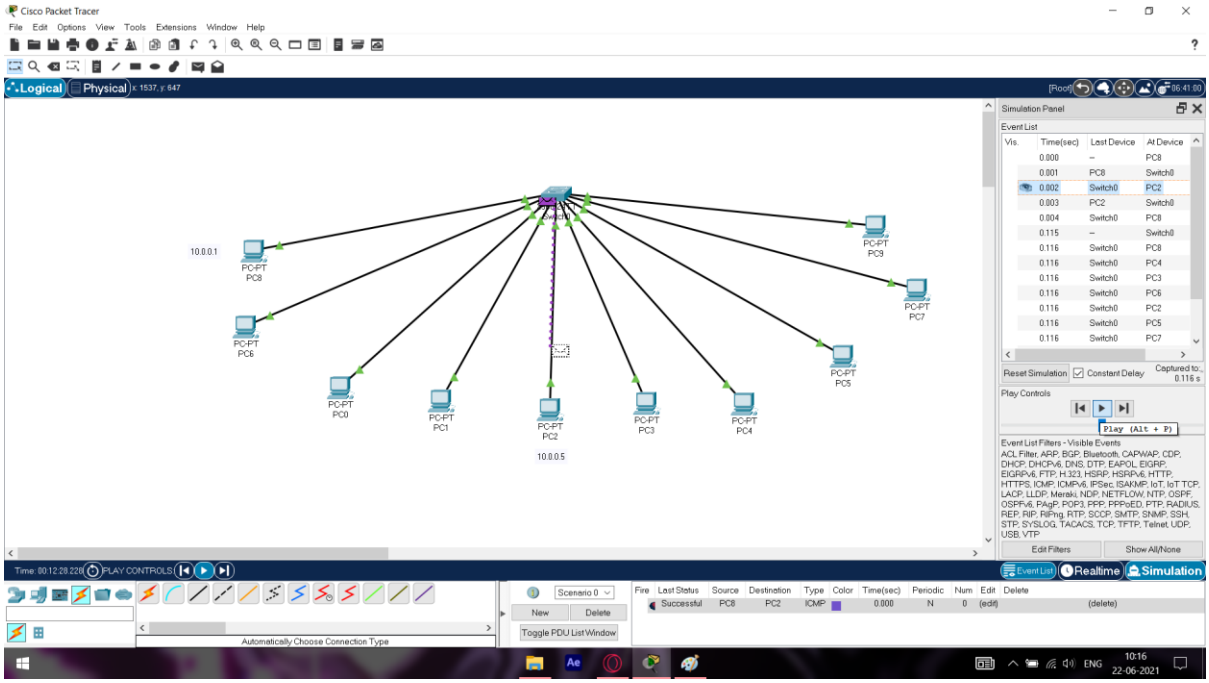
Step 2 - Configure the IP address of all 10 users

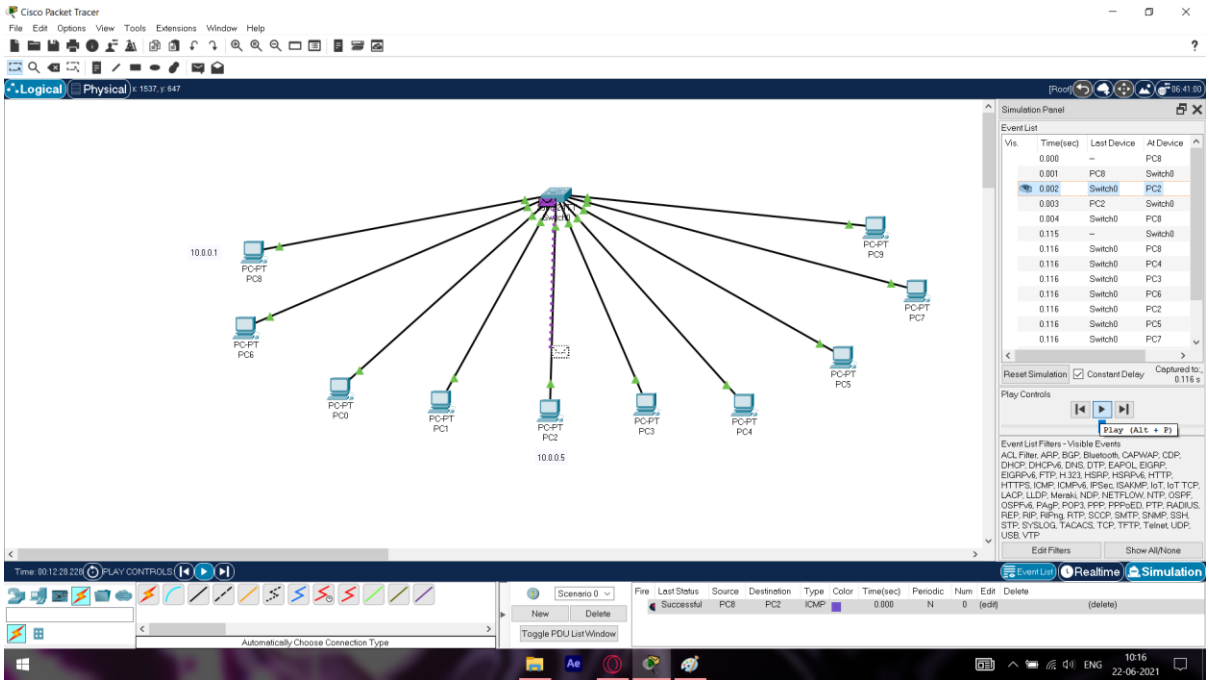
Step 3 - Use Ping command to check the communication.

Step 4 - Sending PDU to check communication is established.


Cisco Packet Tracer
File Edit Options View Tools Extensions Window Help
Logical
Physical
10.0.0.1
10.0.0.5
PC-PT PC0
PC-PT PC1
PC-PT PC2
PC-PT PC3
PC-PT PC4
PC-PT PC5
PC-PT PC6
PC-PT PC7
PC-PT PC8
PC-PT PC9
Realtime
Simulation
Automatically Choose Connection Type


Cisco Packet Tracer
File Edit Options View Tools Extensions Window Help
Logical
Physical
Simulation Panel
Event List
10.0.0.1
10.0.0.5
PC-PT PC0
PC-PT PC1
PC-PT PC2
PC-PT PC3
PC-PT PC4
PC-PT PC5
PC-PT PC6
PC-PT PC7
PC-PT PC8
PC-PT PC9
Realtime
Simulation
Automatically Choose Connection Type


Cisco Packet Tracer
File Edit Options View Tools Extensions Window Help
Logical Physical
Simulation Panel
Event List
Vis. Time(sec) Last Device At Device
Reset Simulation Constant Delay
Play Controls
Play (Alt + P)
Event List Filters - Visible Events
Edit Filters Show All/None
Realtime Simulation
Fire Last Status Source Destination Type Color Time(sec) Periodic Num Edit Delete
Successful PC8 PC2 ICMP 0.000 N 0 (edit) (delete)
New Delete
Toggle PDU List Window
Automatically Choose Connection Type
10.0.0.1
10.0.0.5
PC-PT PC0
PC-PT PC1
PC-PT PC2
PC-PT PC3
PC-PT PC4
PC-PT PC5
PC-PT PC6
PC-PT PC7
PC-PT PC8
PC-PT PC9
ENG 10:16 22-06-2021


Cisco Packet Tracer
File Edit Options View Tools Extensions Window Help
Logical Physical
Simulation Panel
Event List
Vis. Time(sec) Last Device At Device
Reset Simulation Constant Delay
Play Controls
Play (Alt + P)
Event List Filters - Visible Events
Edit Filters Show All/None
Realtime Simulation
Fire Last Status Source Destination Type Color Time(sec) Periodic Num Edit Delete
Successful PC8 PC2 ICMP 0.000 N 0 (edit) (delete)
New Delete
Toggle PDU List Window
Automatically Choose Connection Type
10.0.0.1
10.0.0.5
PC-PT PC0
PC-PT PC1
PC-PT PC2
PC-PT PC3
PC-PT PC4
PC-PT PC5
PC-PT PC6
PC-PT PC7
PC-PT PC8
PC-PT PC9
ENG 10:16 22-06-2021

Name - Himanshu Talukdar
Course - MCA 2-C
student ID - 20711191

Q-2- There are two organisation in a city named GEU and GEHU, design a network between the SOC department of GEU and GEHU. Also, show the communication between user number 1 of GEU and user number 2 of GEHU.

Ans -

Objective - To creat multiple LAN named as GEU and GEHU and connect them using router.

Steps for network creations :

Step 1 - Creat LAN-1 with 4 PC and creat LAN2 with 4 PCs

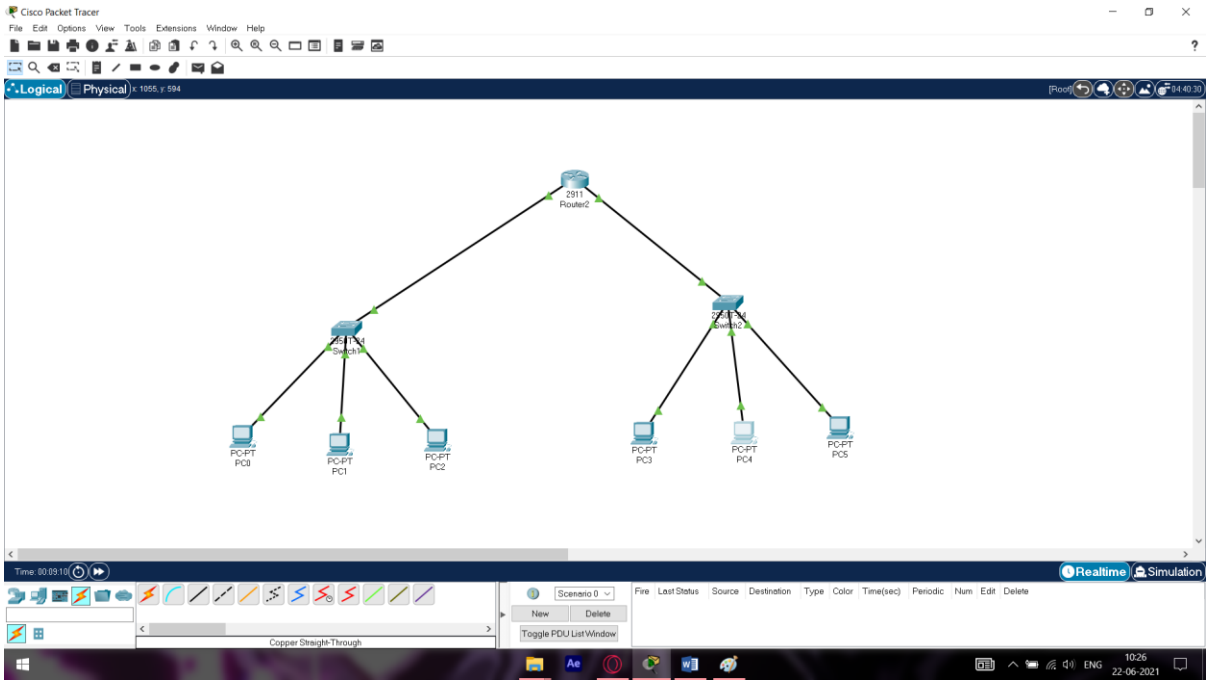
~~step 2 - Default Gate~~

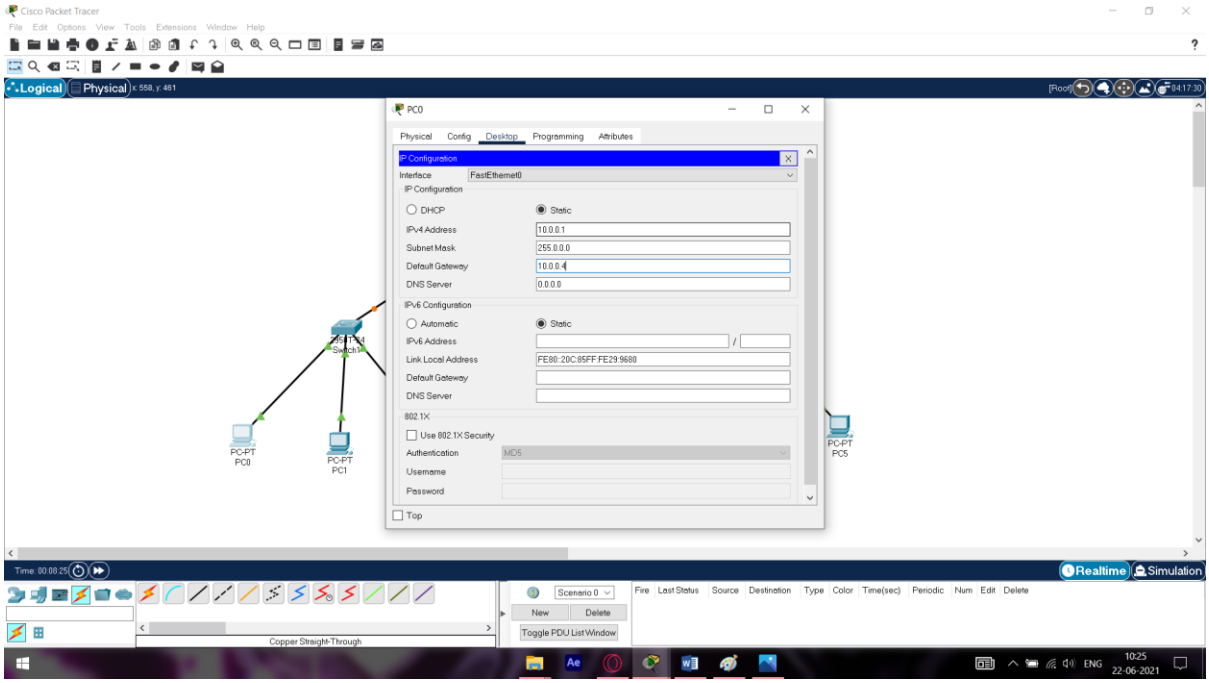
Step 2 - Connect both LAN with router and configure the router.

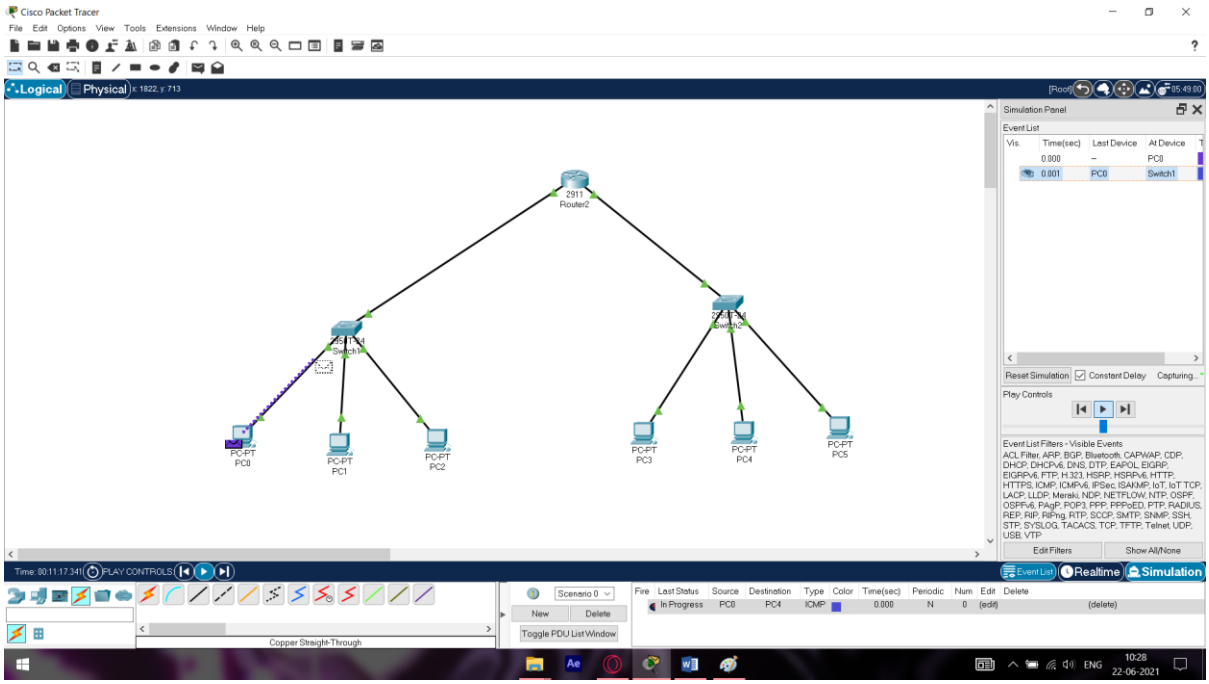
Step 3 - Default Gateway for LAN-1 is 10.0.0.5

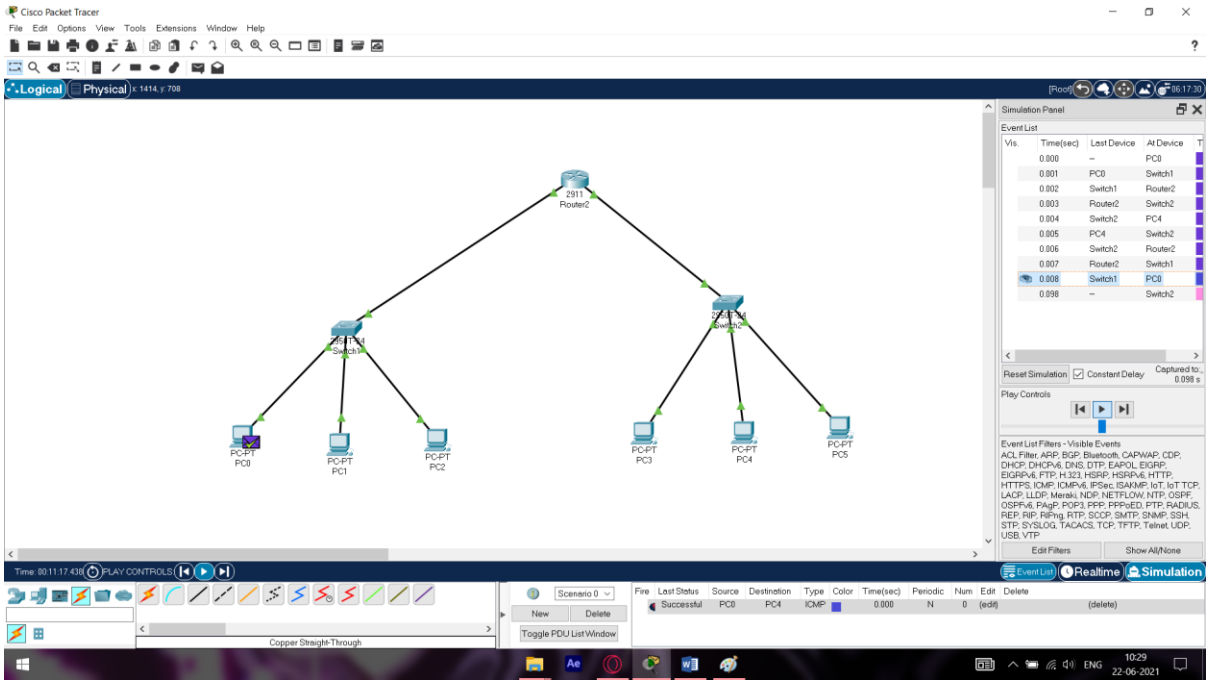
Default Gateway for LAN-2 is 192.168.1.5

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


Cisco Packet Tracer
File Edit Options View Tools Extensions Window Help
Logical Physical
2911 Router2
PC-PT PC0
PC-PT PC1
PC-PT PC2
PC-PT PC3
PC-PT PC4
PC-PT PC5
Realtime Simulation
Copper Straight-Through


Cisco Packet Tracer
File Edit Options View Tools Extensions Window Help
Logical Physical
PC0
Physical Config Desktop Programming Attributes
IP Configuration
Interface FastEthernet0
IP Configuration
DHCP Static
IPv4 Address 10.0.0.1
Subnet Mask 255.0.0.0
Default Gateway 10.0.0.4
DNS Server 0.0.0.0
IPv6 Configuration
Automatic Static
IPv6 Address
Link Local Address FE80::20C:85FF:FE29:9680
Default Gateway
DNS Server
802.1X
Use 802.1X Security
Authentication MD5
Username
Password
Top
PC-PT PC0
PC-PT PC1
PC-PT PC5
Realtime Simulation
Copper Straight-Through


Cisco Packet Tracer
File Edit Options View Tools Extensions Window Help
Logical
Physical
2911
Router2
Switch1
Switch2
PC-PT
PC0
PC1
PC2
PC3
PC4
PC5
Simulation Panel
Event List
Vis. Time(sec) Last Device At Device
0.000 – PC0
0.001 PC0 Switch1
Reset Simulation
Constant Delay
Capturing...
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, PPPoED, 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: 00:11:17.341
PLAY CONTROLS
Realtime
Simulation
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)
Copper Straight-Through
ENG
10:28
22-06-2021


Cisco Packet Tracer
File Edit Options View Tools Extensions Window Help
Logical
Physical
Router2
Switch1
Switch2
PC0
PC1
PC2
PC3
PC4
PC5
Simulation Panel
Event List
Reset Simulation
Constant Delay
Play Controls
Edit Filters
Show All/None
Realtime
Simulation
Copper Straight-Through
New
Delete
Toggle PDU List Window
Successful
ENG
10:29
22-06-2021