

Computer Networks
Lab Assignment - 3
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2020BCS0066

Lan Connection

Objectives:

1. To Design 2 Local Area Networks having 2PC connected to each network.
2. To Connect 2 LANs with a Wide Area Network using two routers with IP addresses as,

R1 – 10.12.1.66 255.0.0.0 and R2 – 10.12.1.67 255.0.0.0

3. To implement first LAN with two PC whose configuration is as follows,

PC1 – 192.168.1.66 255.255.255.0 and PC2 - 192.168.1.67 255.255.255.0

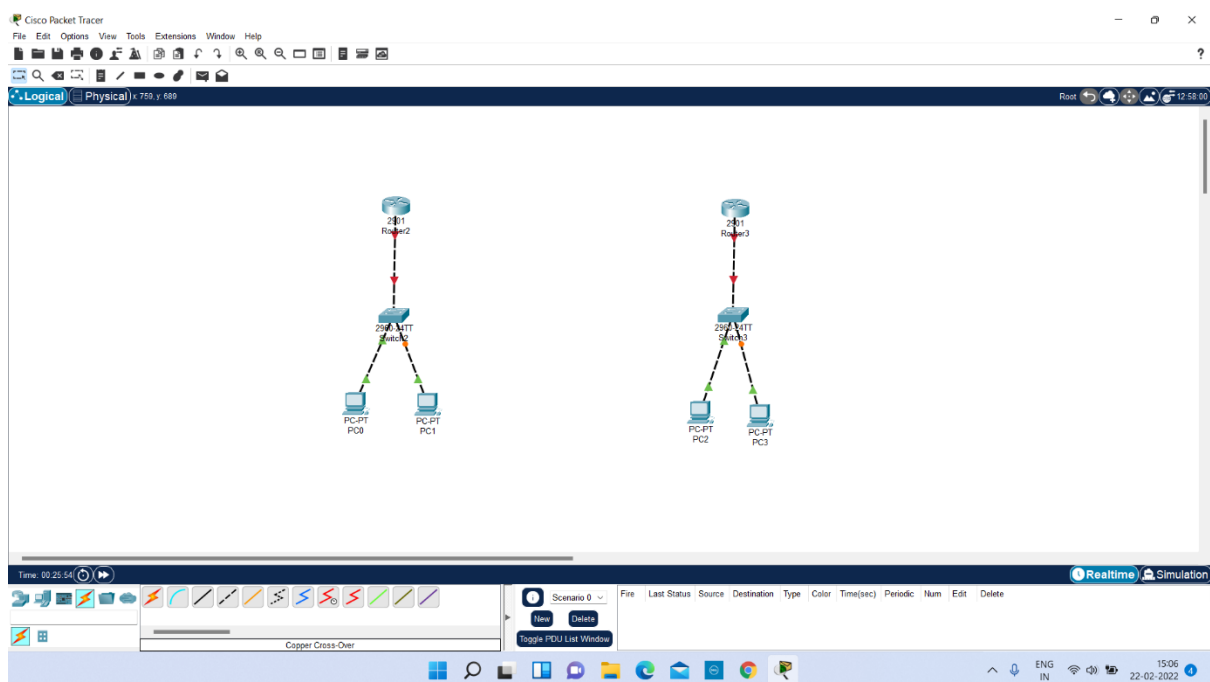
4. To implement second LAN with two PC whose configuration is as follows,

PC1 – 120.160.2.66 255.255.0.0 and PC2 - 120.160.2.67 255.255.0.0

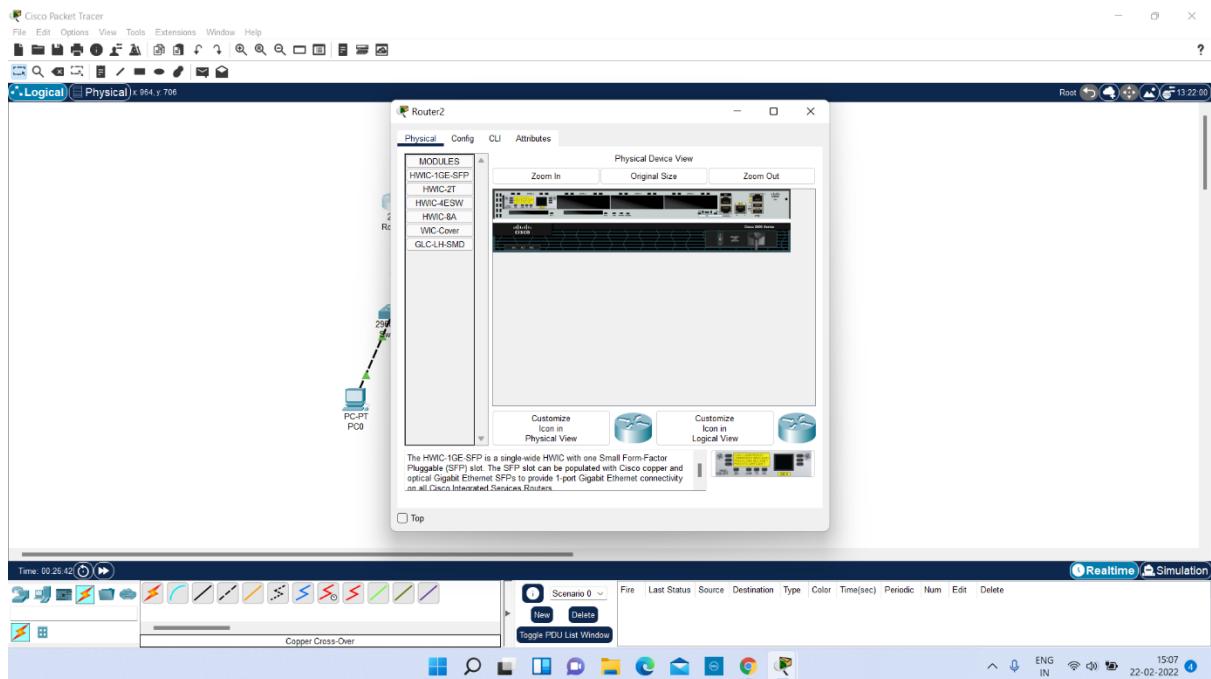
5. To verify the connectivity of the workstations (PC1 and PC2) of LAN1
6. To verify the connectivity of the workstations (PC1 and PC2) of LAN2

Step 1:

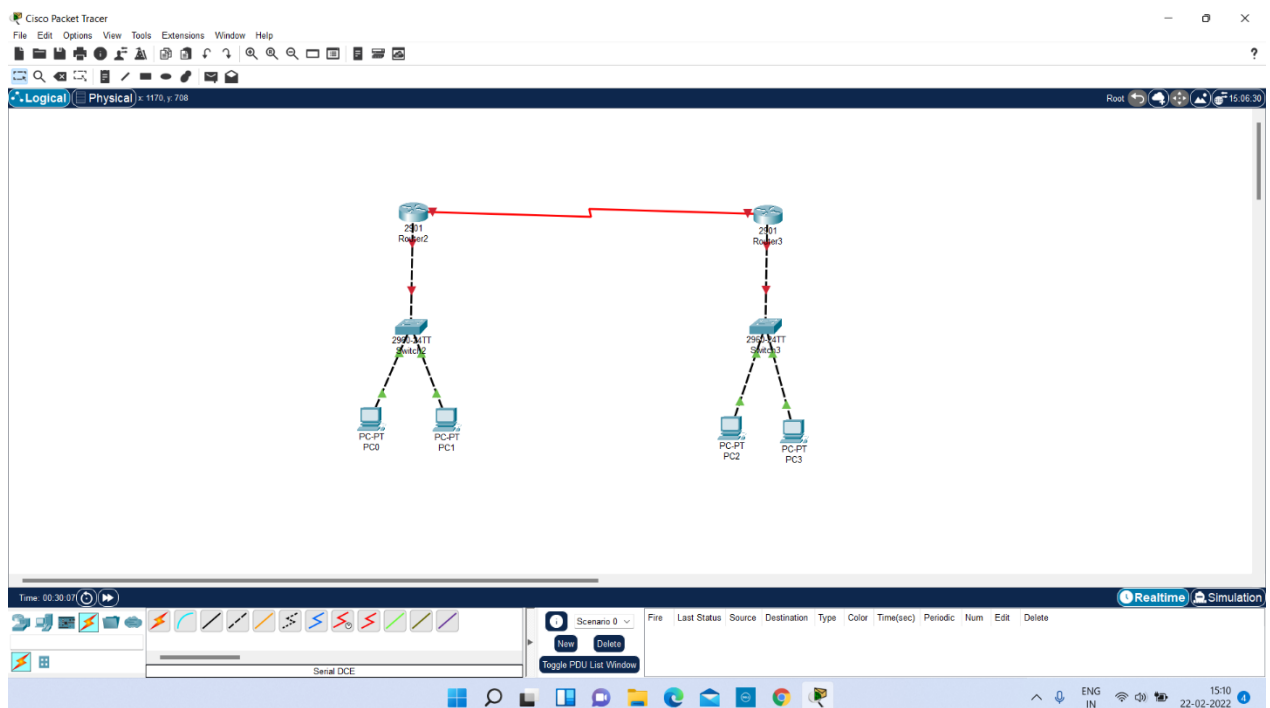
Creating the network



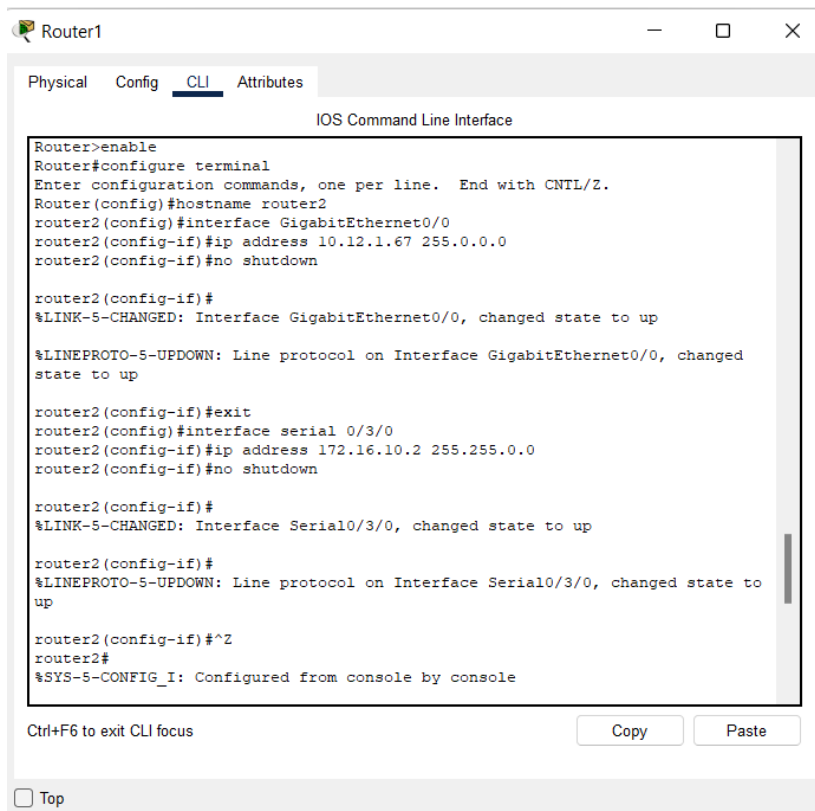
Step 2: Configuring Routers



Step 3: Connecting WAN

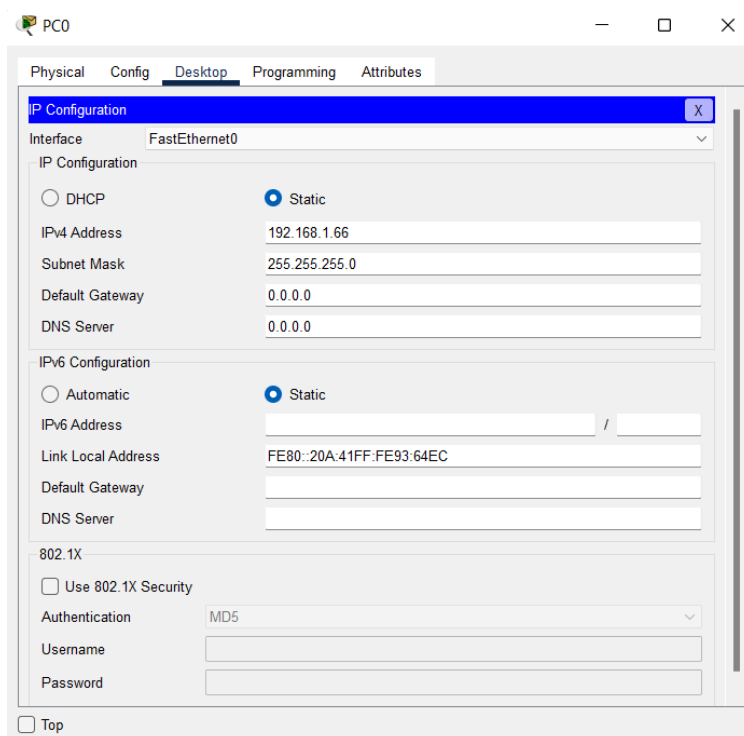


Step 4: Configure both the Routers through CLI

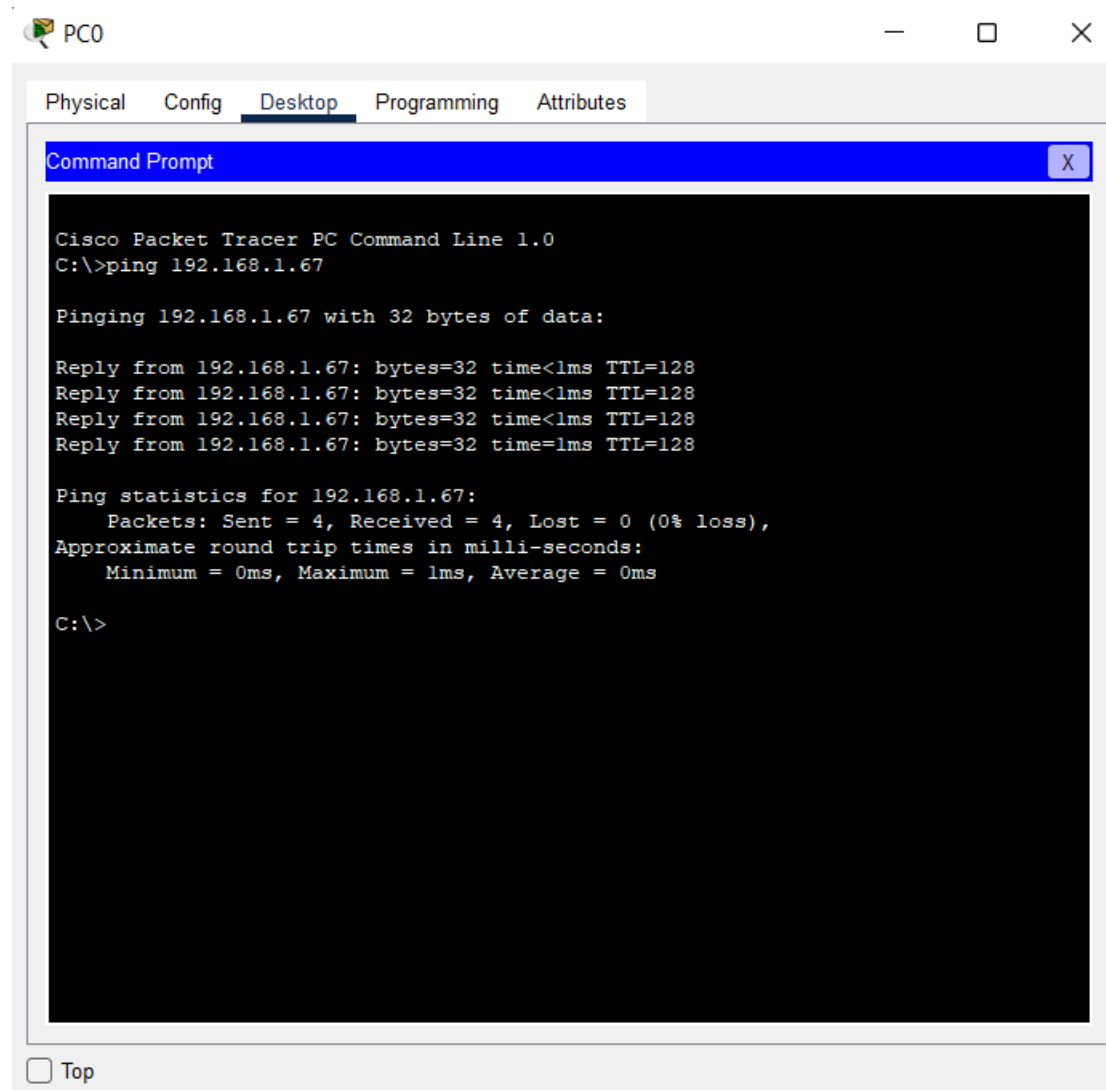


Step 5:

Configure the IP address of workstations



Step 6: Verify the connectivity of workstations



Ping Statistics for 192.168.1.67 shows 0 loss percentage and also Ping Statistics for 192.168.1.66 shows 0 loss percentage. This is true for other LAN also. Hence a connection is established between workstations