

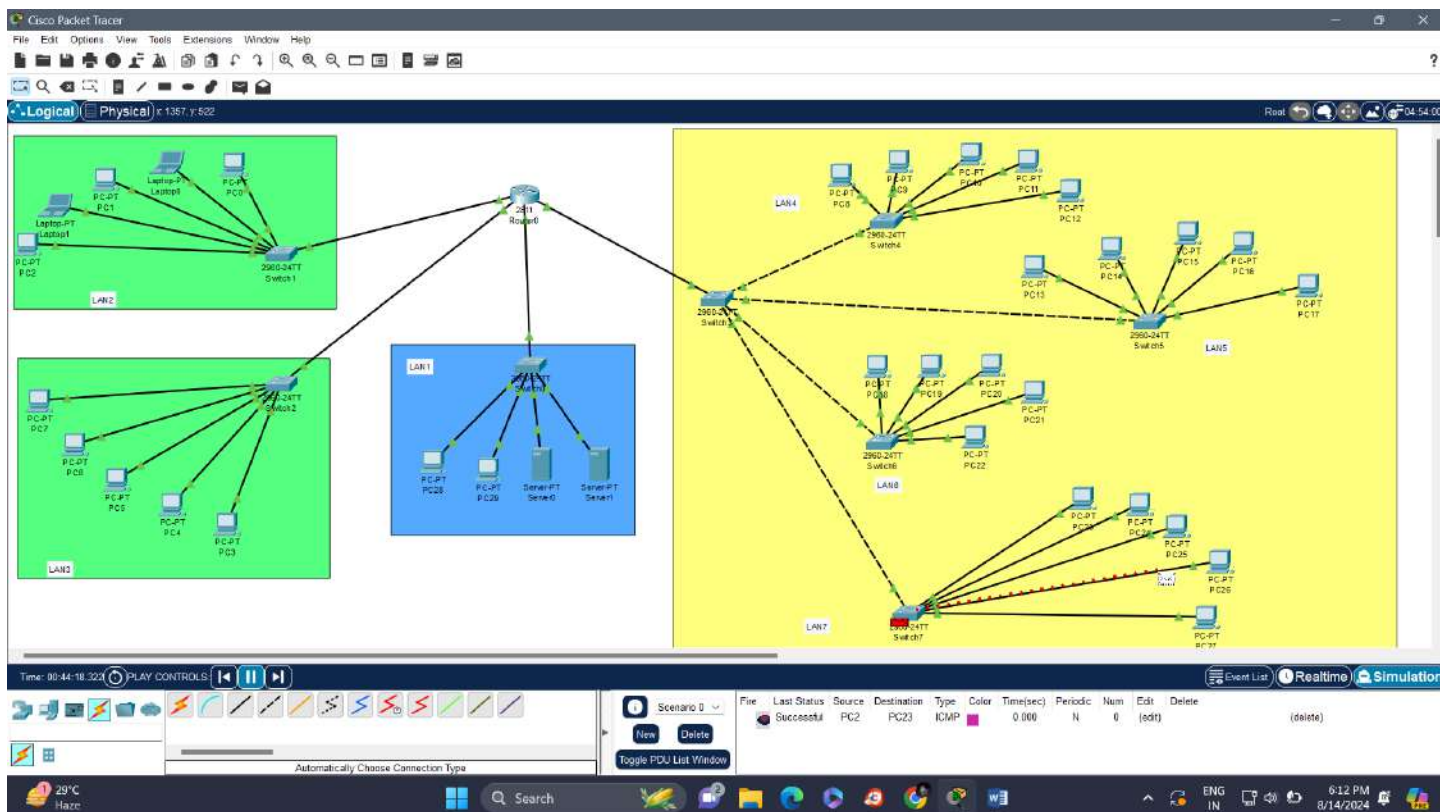
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### **Network Simulation using Packet Tracer Recreating the Network Image**

#### **Steps invoved:**

1. Review the Image: Take a close look at the provided image of the network.
2. Identify Devices: Identify each device in the network, such as routers, switches, servers, and computers. Take note of their placement and connections in the image.
3. Gather Equipment: Gather the necessary equipment to recreate the network, such as routers, switches, and cables.
4. Configure IP address: Refer to the various LANs mentioned in the diagram and provide IP address/ Subnet Mask accordingly.
5. Set Up Devices: Set up the devices according to their placement in the image. Ensure that they are powered on and ready to be connected.
6. Connect Devices: Begin connecting the devices based on the mapped connections from step 3.
7. Test Connectivity: Once the network is fully connected, test the connectivity between the devices. Verify that data can be transmitted across the network.
8. Document the Network: Document the recreated network, including the devices used, their connections, and any additional details. This documentation will serve as a reference for future maintenance or modifications.



```

interface FastEthernet0/0
ip address 192.168.1.1 255.255.255.0
duplex auto
speed auto
!
interface FastEthernet0/1
ip address 192.168.2.1 255.255.255.0
duplex auto
speed auto
!
interface Ethernet1/0
ip address 192.168.3.1 255.255.255.0
duplex auto
speed auto
!
interface Ethernet1/1
ip address 192.168.4.1 255.255.255.0
duplex auto
speed auto
!
interface Vlan1
no ip address
shutdown
!
ip classless
!
ip flow-export version 9
!

```

## Ping

```
C:\>ping 192.168.2.3

Pinging 192.168.2.3 with 32 bytes of data:

Reply from 192.168.2.3: bytes=32 time=1ms TTL=128
Reply from 192.168.2.3: bytes=32 time=1ms TTL=128
Reply from 192.168.2.3: bytes=32 time=3ms TTL=128
Reply from 192.168.2.3: bytes=32 time=3ms TTL=128

Ping statistics for 192.168.2.3:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 1ms, Maximum = 3ms, Average = 2ms

C:\>
```

## Devices used :

1. 2811 ROUTER
2. 2960 SWITCHES
3. END DEVICES LIKE PC AND LAPTOPS
4. CABLES AS REQUIRED