P.HARINI
SEC 7
2300033404

NPS -LAB EXPERIMENT-8

Configuration of RIP and OSPF using Cisco network switch and verify the connectivity.

- Access to Cisco device CLI.
- IP addressing plan for all interfaces.

1. Configure RIP

Step 1: Access the device in global configuration mode.

```
enable
configure terminal
```

Step 2: Enable RIP (use version 2).

```
router rip
version 2
```

Step 3: Define networks to advertise.

```
network [network_address]
```

Example:

```
network 192.168.1.0
network 10.0.0.0
```

Step 4: Exit configuration mode.

```
exit
exit
```

2. Configure OSPF

Step 1: Enter OSPF configuration mode with a process ID.

router ospf [process_id]

Step 2: Define network(s) and areas.

network [network_address] [wildcard_mask] area [area_id]

Example:

network 192.168.2.0 0.0.0.255 area 0
network 10.0.1.0 0.0.0.255 area 0

Step 3: Exit configuration mode.

exit
exit

3. Verify Connectivity

- **Check Routing Table**:

  show ip route

- **Check RIP Status**:

  show ip rip database

- **Check OSPF Neighbors**:

  show ip ospf neighbor

- **Ping** (Verify reachability between devices):

  ping [destination_ip]

Each configuration should show connected networks if successful.
The ping command can help confirm end-to-end connectivity.

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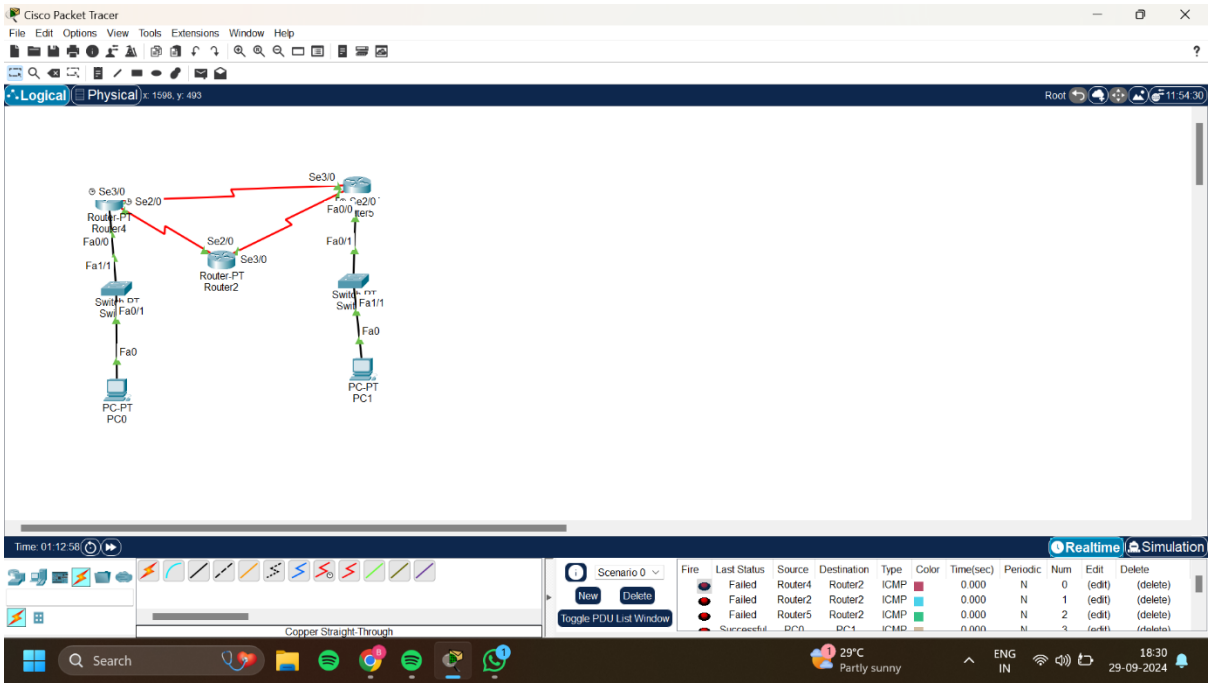

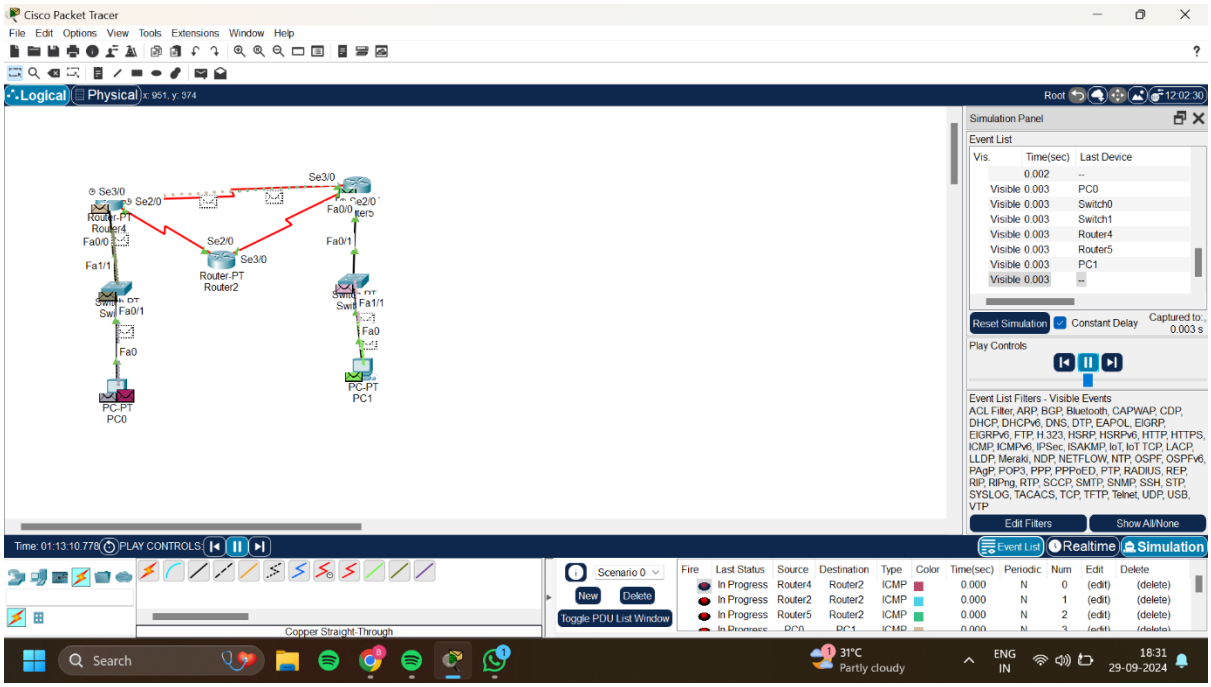

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