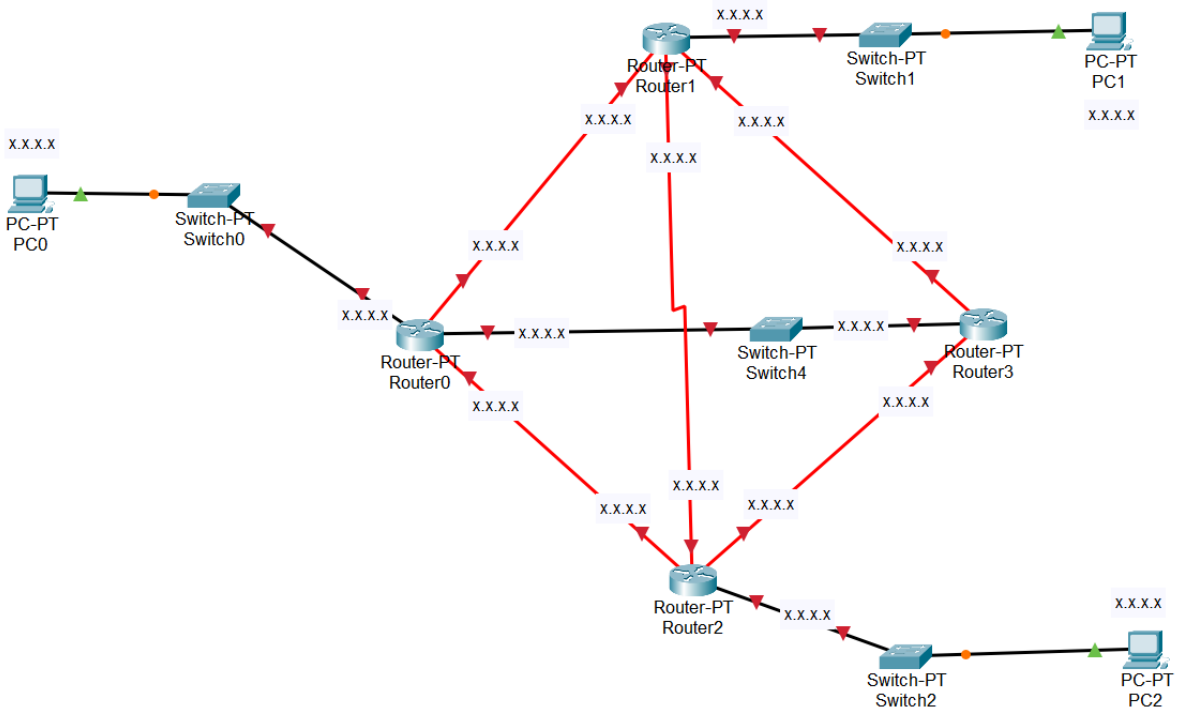
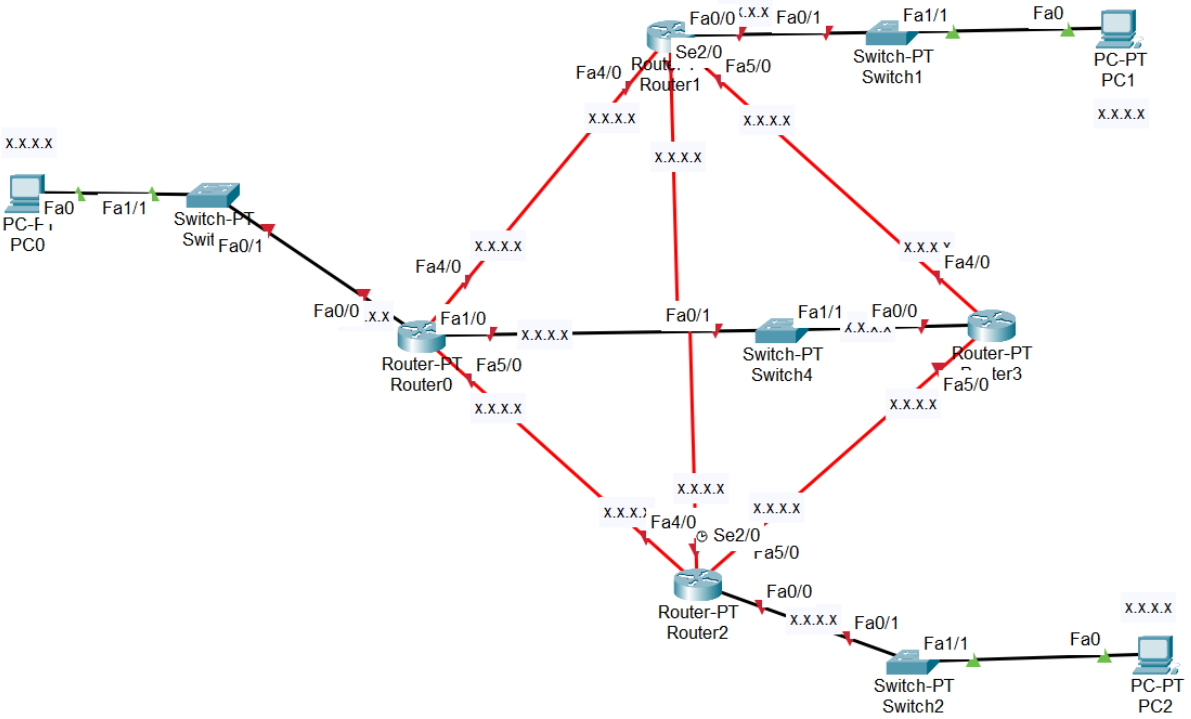
Packet Trace Practice
Time: 45 minutes

Network Topology



Network Topology with Interface Labels



Task A

1. **File:** Create a copy of the topology file. Name it with your ID as "`1605xxx-Task-A.pkt`". Use this file for Task A. Open Task-A file.
2. **Network design:**
    a. Assign appropriate and **unique** IP addresses to all devices. For this, replace "x.x.x.x." with appropriate IP addresses for all devices.
    b. All the configured IP addresses must be in the range 172.0.0.0-172.255.255.255
    c. All the subnet masks must be of **length 16**.
3. **Network Configuration:** Configure the network appropriately to enable communication among all the devices.
4. **Routing Configuration:** Use dynamic routing. You are **NOT** allowed to use static routing.

Evaluation

- Ping between any pair of devices (PC/Router).

Task B

1. File: After completion of Task A, create a copy of Task A file. Name it with your ID as "`1605xxx-Task-B.pkt`". Use this file for Task B. Open Task-B file.
2. Modify the dynamic routing configuration in such a way that
    a. all the packets from PC0 to PC1 must pass through Router 2, Router3.
    b. all the packets from PC1 to PC0 must pass through Router 3, Router2.
3. You are not allowed to disconnect any cable or shutdown any interface.
4. You are not also allowed to use any static routing.

Submission

- Put the two files (`1605xxx-Task-A.pkt, 1605xxx-Task-B.pkt`) in a folder.
- Name the folder with your ID `1605xxx`.
- Zip the folder. Name of the zip file should be `1605xxx.zip`

Marks Distribution

A: IP Address Assignment	10
A: Configure devices	10
A: Configure routing	10
B: Routing modification	10
Wrong submission format	*-2*
Total	40

Tips:

- Go to "Options" --> "Preferences" --> "Interfaces" Then Check "Always Shows Ports and Labels" to view which interfaces the connectors are connected in a device.