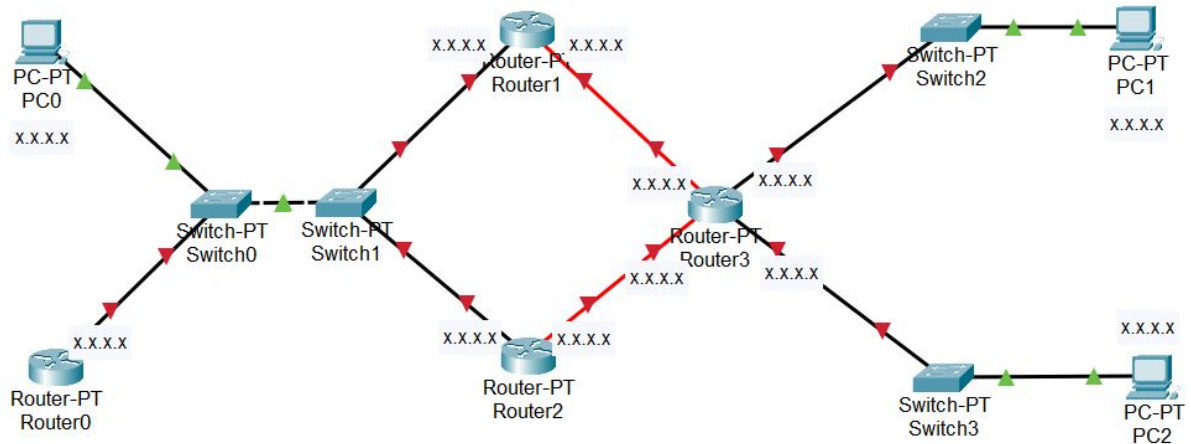


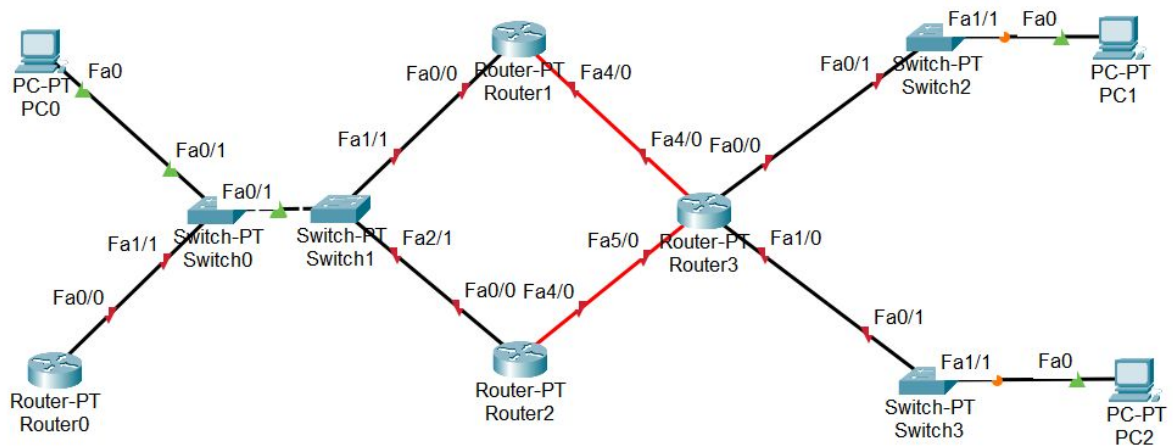
Packet Trace Online, Section A1

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 for **Task A**.

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 configuration of PCs and Routers in such a way that
 - a. all the packets **from PC0 to PC1** must pass through Router1 and avoid Router2.
 - b. all the packets **from PC0 to PC2** must pass through Router2 and avoid Router1.
3. You are not allowed to disconnect any cable or shutdown any interface.
4. You are allowed to **use static routing for only one router**. Say, you chose RouterX. You cannot use RIP in RouterX.

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: Config modification	10
<i>Wrong submission format</i>	-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.