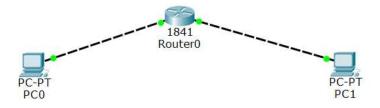
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Lab Exercise No. 2

Objective: To demonstrate and configure a simple router for connecting two hosts using different gateways.



Steps to be followed on Cisco Packet Tracer

- Step 1. Open Cisco Packet Tracer Application.
- Step 2. Select **end devices (Router 1841 and PCs)** from the bottom left-hand corner and drag it to the sandbox screen.
- Step 3. Now select **connections** from the same bottom left-hand corner. Create connections by selecting **copper cross-over cable** from the second menu to the immediate right.
- Step 4. Click on *Router0*, and connect the cable via *FastEthernet0/0*. Now click the *PC0* and select *FastEthernet*. Do the same operation to *PC1*, only this time connect the cable to *FastEthernet0/1* since *FastEthernet0/0* is already taken by *PC0*.
- Step 5. Click on Router0 for configuration menu and verify that it is turned on. Click on **CLI** tab to access the configuration menu and follow these instructions:
 - Enter no for the question asked and Press **RETURN** to start the session
 - Type enable to get to privileged mode (this gives you more options in configuring the router)
 - Type **config terminal** (or **config t** for short) to access the configuration menu.
 - Type interface fastethernet0/0 to access Ethernet0/0
 - Type **ip address 192.168.10.1 255.255.255.0** to assign an IP address and subnet mask to the interface.
 - Type no shutdown to open the interface up for business.

Step 6. Do the same for FastEthernet0/1:

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- Press Ctrl + Z to go back to the previous mode.
- Type interface fastethernet0/1
- Type ip address 192.168.20.1 255.255.255.0
- Type no shutdown

Step 7. Configure Gateway on each computer:

- Click on PC0 to bring up the configuration menu.
- Under global settings you will find a field for the gateway. Enter the corresponding IP address of the router's interface, which is **192.168.10.1**.
- Then click the FastEthernet tab on the left column to set the actual computer's IP address to be on the network. Use **192.168.10.2** for the IP address, and **255.255.255.0** for the subnet mask.
- Do the same thing for PC1, only use **192.168.20.1** for the gateway address, **192.168.20.2** for the IP address, and **255.255.255.0** for the subnet mask.

Step 8. Confirm that network works:

- Click the packet icon on the right menu.
- Click on PC0 and then click PC1.
- Notification will appear at bottom-right corner for Successful transmission.

Assignment: Configure the network as shown below in the figure.

