

Your answer:

Correct  
answer:

Home-Laptop and Home-PC1 have an IP address on the same network.,  
Home-Laptop and Home-PC1 have the same gateway address., Home-PC1 is  
configured correctly and has Internet access..

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✗ Home-Laptop connected to internet router

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## Explanation

Complete this lab as follows:

1. Gather information on Home-Laptop
  - a. Right-click **Home-Laptop** and select **Launch Windows**.
  - b. Hover over the network icon in the system tray.  
Note that Home-Laptop is not connected to the internet.
  - c. Right-click the network icon and select **Network & Internet settings**.
  - d. Select **Ethernet**.
  - e. Scroll down to IP assignment and select **Edit**.
  - f. Select Questions.
  - g. Answer Questions 1 through 3.
  - h. Minimize the Lab Questions window.
  - i. Under Edit IP Settings, select **Cancel**.
2. Identify symptoms on Home-Laptop
  - a. Right-click **Start** and select **Terminal (Admin)**.
  - b. In the Terminal window, type the following commands followed by pressing **Enter**.
    - **ping Home-Laptop**
    - **ping Home-PC1**
    - **ping Home-PC2**
    - **ping 192.168.1.1**
  - c. Select Questions.
  - d. Answer Question 4.
  - e. Minimize the Lab Questions window.
  - f. In the top left, select **Network Modeler** to return to the network diagram.
3. Gather information on Home-PC1
  - a. Right-click **Home-PC1** and select **Launch Windows**.
  - b. Hover over the network icon in the system tray.  
Note that Home-PC1 is connected to the internet.
  - c. Right-click the network icon and select **Network & Internet settings**.
  - d. Select **Ethernet**.
  - e. Scroll down to IP assignment and select **Edit**.
  - f. Select Questions.
  - g. Answer Questions 5 through 7.
  - h. Minimize the Lab Questions window.
  - i. Under Edit IP Settings, select **Cancel**.
4. Identify symptoms on Home-PC1
  - a. Right-click **Start** and select **Terminal (Admin)**.
  - b. In the Terminal window, type the following commands followed by pressing **Enter**.
    - **ping Home-Laptop**
    - **ping Home-PC1**
    - **ping Home-PC2**
    - **ping 192.168.1.1**
  - c. Select Questions.
  - d. Answer Question 8.
  - e. Minimize the Lab Questions window.

- f. In the top left, select **Network Modeler** to return to the network diagram.
5. Establish a theory of probable cause
- Select Questions.
  - Answer Questions 9.
  - Minimize the Lab Questions window.
  - Note that Home-Laptop has a typo in the subnet mask, so the gateway appears to Home-Laptop to be another network.
6. Implement a solution
- Right-click **Home-Laptop** and select **Launch Windows**.
  - From **Network & Internet > Ethernet**, scroll down to IP assignment and select **Edit**.
  - Correct the Subnet mask address to be the same as the other computers (**255.255.255.0**).
  - Select **Save**.
7. Verify full system functionality for Home-Laptop
- Hover over the network icon in the system tray.  
Note that Home-Laptop now shows connected to HomeNet and the Internet.
  - From the Terminal prompt, type the following commands followed by pressing **Enter**.
    - **ping Home-Laptop**
    - **ping Home-PC1**
    - **ping Home-PC2**
    - **ping 192.168.1.1**

Note that all pings are successful from Home-Laptop.