

4.6.4 Lab: Use ping and tracert on Windows

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Time Spent: 14:26

Score: 86%



Task Summary

Required Actions and Questions

✓ Ping Office2 and CorpServer using their IP addresses

✓ Q1: What is the IP address of Building A's router?

Your answer: 192.168.0.5

Correct answer: 192.168.0.5

✓ Q2: What is the IP address of the ISP's router?

Your answer: 198.28.2.254

Correct answer: 198.28.2.254

✓ View the configuration using ipconfig

✓ Ping the Building A router

✗ Use tracert to verify the path to the ISP's router

✓ Change the gateway address to 192.168.0.5

Explanation

Complete this lab as follows:

1. Under the **Executive Office** heading, select the **Exec** computer.
2. Right-click **Start** and then select **Terminal (Admin)**.
3. Ping the Office2 computer by typing **ping 192.168.0.31** and then pressing **Enter**.
4. Ping the CorpServer computer by typing **ping 192.168.0.10** and then pressing **Enter**.
Both pings were completed successfully, which means that the local network connectivity works on the Exec computer.
5. From the top right, select the **Exhibits** button. Note the IP address for the routers for Building A and the ISP's router.
6. Close the Exhibits window and select **Questions** from the top right.
7. From the information you reviewed on the Exhibits page, answer Questions 1 and 2.
8. Minimize the Lab Questions window.
9. In the PowerShell window, type **ipconfig** and press **Enter**. Note the IPv4 Address and Default Gateway values.

10. Ping Building A's router by typing **ping 192.168.0.5** and then pressing **Enter**.
The ping succeeds.
11. Check the path to the ISP's router by typing **tracert 198.28.2.254** and then pressing **Enter**.
This ping fails. Comparing the IP address of the building's router to the IP Address of the Default Gateway of the Exec computer, we can conclude where the change should be made.
12. Change the Default Gateway of the Exec computer:
 - a. Right-click the Networking icon in the Notification area of the taskbar, and then select **Network and Internet settings**.
 - b. Click on **Ethernet** and scroll down to **IP assignment**.
 - c. Click **Edit**.
 - d. Change the **Gateway** field to **192.168.0.5** to match the building's router IP address, and then click **Save**.
 - e. Close the Settings window.
 - f. From the PowerShell window, verify that the change has resolved the ping issues by typing **ping 192.168.0.5** and pressing **Enter**.
The ping to Building A's router is successful.
 - g. From the PowerShell window, verify that the change has resolved the ping issues by typing **tracert 198.28.2.254** and then pressing **Enter**.
The trace to the ISP's router is successful.

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