IT Essentials 5.0
6.8.3.14 Lab - Test the Wireless NIC in Windows 7

Introduction

Print and complete this lab.

In this lab, you will check the status of your wireless connection, investigate the availability of wireless networks, and test connectivity.

Recommended Equipment

- A computer with Windows 7 installed
- A wireless NIC installed
- An Ethernet NIC installed
- Linksys E2500 Wireless Router
- Internet connectivity

Instructor: Make sure the computer is not connected to a wireless network before assigning the lab.

Step 1

Disconnect the Ethernet cable from your computer.

An “orange dot” appears over the “Connections” icon.

Hover over the “Connections” icon in the tray.

What is the name of the wireless connection? Answers may vary.

Connect to a wireless network.

Open a command window.

Ping 127.0.0.1.
How many Replies did you receive?
4

Use the ipconfig command.

What is the IP address of the default gateway?
Answers may vary, 192.168.1.1

Ping the default gateway.

A successful ping indicates that there is a connection between the computer and the default gateway.
Type `net view`.

List the computer names that are displayed.

*Answers may vary. Braxton-PC, and Student01*

If you have an external connection, try the following commands.

Use the `tracert` command along with your schools Web site or the Cisco Networking Academy Web site. Example: type `tracert www.netacad.com`.

What IP address was returned?

*Answers may vary. 72.163.6.223*

Use the `nslookup` command with the IP address you just discovered.
Type `nslookup 72.163.6.233`.

What name was returned?
Answers may vary. `cna-prod-nv.cisco.com`

**Step 2**

Open a web browser.

Type `www.cisco.com` in the “Address” field, and then press **Enter**.

**Step 3**

Open the **Network Connections** window.
Right-click the Wireless Network Connection icon > Status.

The “Wireless Network Connection Status” window opens.
Click **Close**.

Right-click the wireless connection and select **Connect / Disconnect**.

Select **All** from the Show drop-down menu.

Click the **Refresh** button.

What are the names of the wireless networks that are available?

*Answers may vary, BlackBear*