

### IT Essentials 5.0

# 6.8.3.16 Lab - Test the Wireless NIC in Windows XP

#### 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 XP installed
- A wireless NIC installed
- An Ethernet NIC installed
- Linksys E2500 Wireless Router
- Internet connectivity

# Step 1

Disconnect the Ethernet patch cable from your computer.

A red "X" appears over the "Local Area Connection" icon.



Hover over the "Wireless Network Connection" icon in the tray.

What is the Speed and Signal Strength?



Open a command window.

### Ping 127.0.0.1.

How many Replies did you receive?

```
C:\>ping 127.0.0.1

Pinging 127.0.0.1 with 32 bytes of data:

Reply from 127.0.0.1: bytes=32 time<ims ITL=128
Ping statistics for 127.0.0.1:
Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
Minimum = 0ms, Maximum = 0ms, Average = 0ms

C:\>
```

Use the **ipconfig** command.

What is the IP address of the default gateway?

### Ping the default gateway.

```
C:\>ping 192.168.2.1

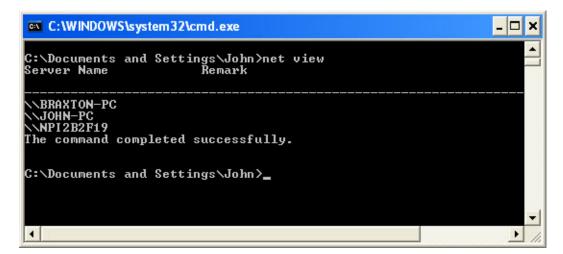
Pinging 192.168.2.1 with 32 bytes of data:

Reply from 192.168.2.1: bytes=32 time=1ms ITL=64
Reply from 192.168.2.1: bytes=32 time=tms ITL=64
Ping statistics for 192.168.2.1:

Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
Minimum = 1ms, Maximum = 1ms, Average = 1ms

C:\>________
```

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

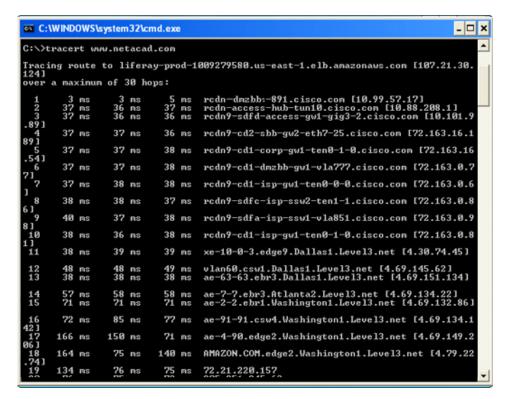


### Type net view.

List the computer names that are displayed.

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?

Use the nslookup command with the IP address you just discovered.



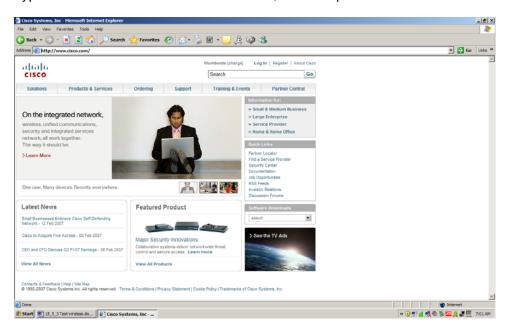
Type nslookup 72.163.6.233.

What name was returned?

# Step 2

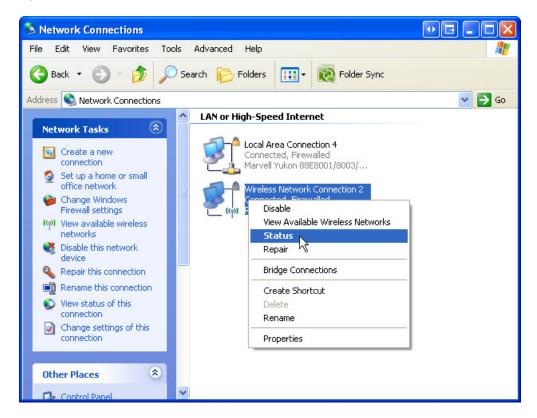
Open a web browser.

Type www.cisco.com in the "Address" field, and then press Return.

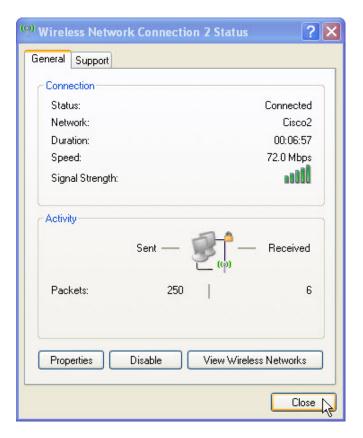


# Step 3

Open the Network Connections window.



Right-click the Wireless Network Connection icon > Status.

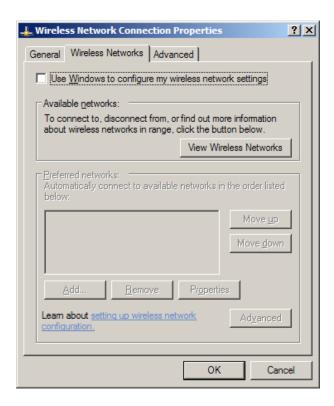


The "Wireless Network Connection Status" window opens.

### Click Close.

Right-click the wireless connection and select **Properties**.

Click the Wireless Networks tab.



Click the View Wireless Networks button.

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