IT Essentials 5.0

6.8.3.5 Lab - Connect to a Router for the First Time

Introduction

Print and complete this lab.

In this lab, you will configure basic settings on the Linksys E2500.

Recommended Equipment
- A computer with Windows 7, Windows Vista, or Windows XP Professional
- An Ethernet NIC installed
- Linksys E2500 Wireless Router
- Ethernet patch cable

Step 1

Ask the instructor for the following information that is used during the lab.

Router Address Information:

IP address _____

Subnet mask _____

Router name _____

DHCP Server Setting Information:

Start IP address _____

Maximum number of users _____

Static DNS 1 (optional) _____

Router Access:

Router Password _____

Important: Only use configurations assigned by the instructor.

Step 2

Plug in the power of the wireless router. Boot the computer and log in as an administrator.
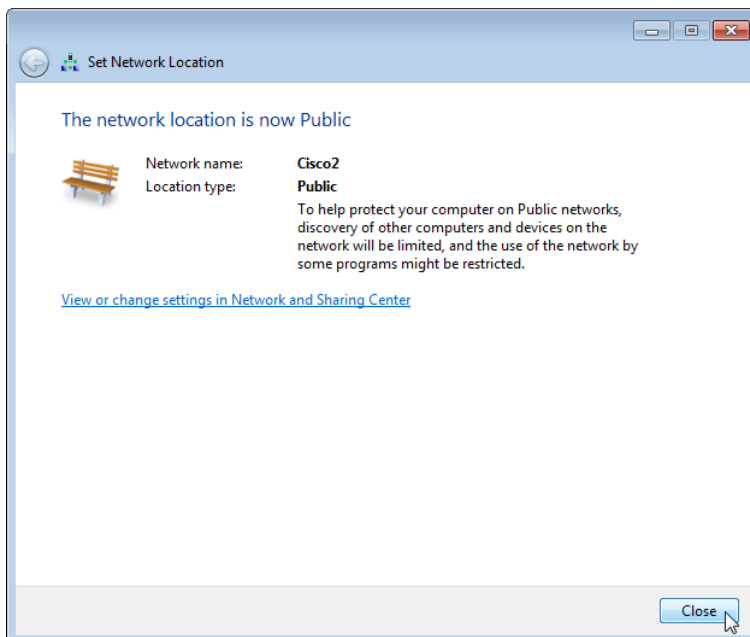
Connect the computer to one of the **Ethernet** ports on the wireless router with an Ethernet patch cable.

Note: If this is the first time connecting to the lab router, complete the following. Follow these instructions to set a network location. This will be explained later in the course.

The "Set Network Location" window opens.
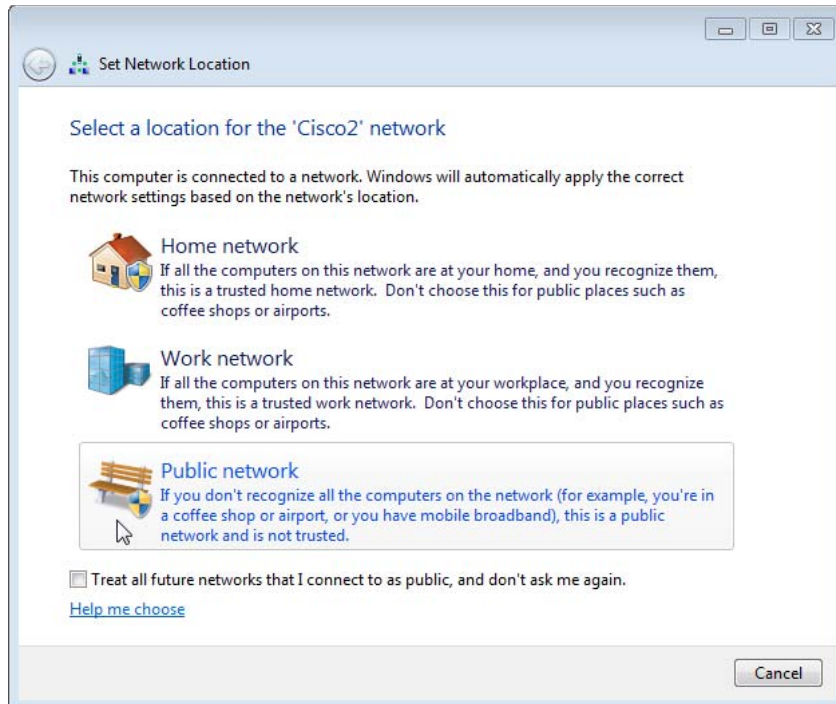
Select **Public network**.

Click **Close** to accept the network location Public.
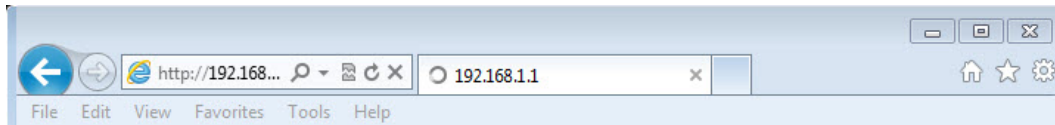
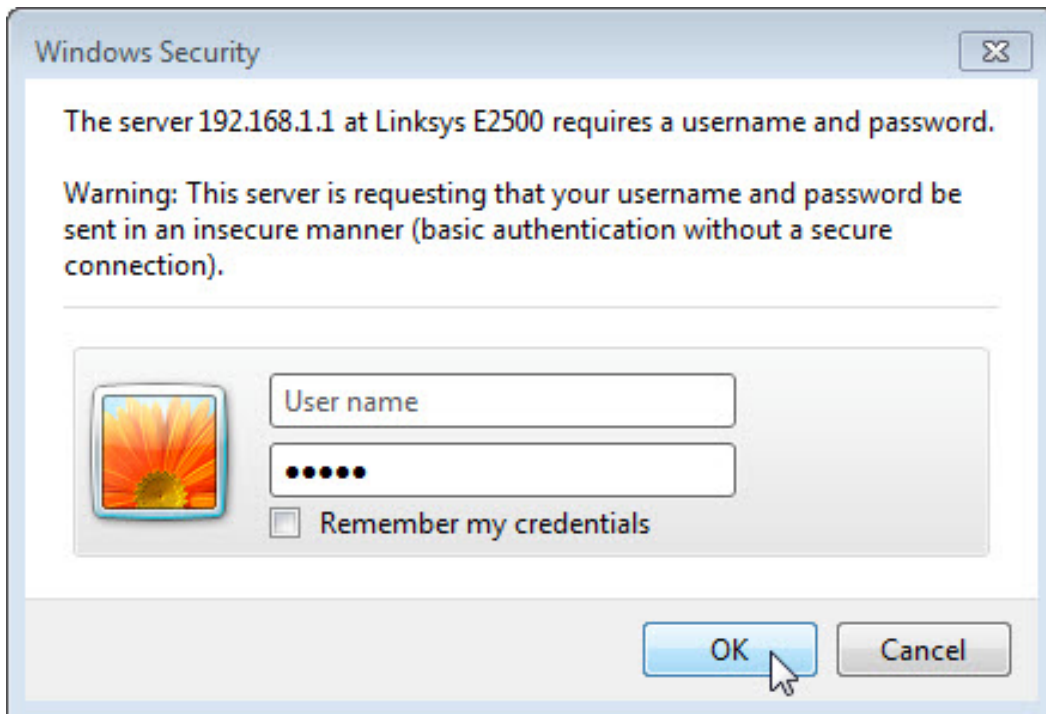### Step 3

Open the command prompt.

Type **ipconfig /renew**.

What is the default gateway for the computer?

Step 4

Open Internet Explorer. Type the IP address of your default gateway in the "Address" field, and then press **Enter**.

The "Connect to" window opens.

Type **admin** in the "Password:" field then click **OK**.

The "Setup screen" appears.

Internet Setup

What is the "Internet Connection Type" assigned to the router?

Make sure the "Internet Connection Type" is set to **Automatic Configuration – DHCP**.

Network Setup

What is the following for the "Router Address":

IP Address

Subnet Mask

Router Name

What is the following for the "DHCP Server Setting":
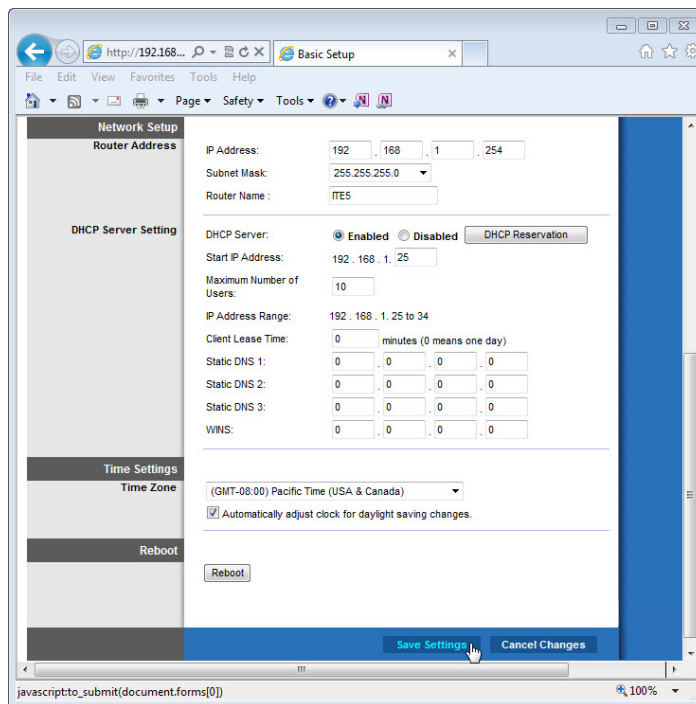
Start IP Address

Maximum Number of Users

IP Address Range

Make sure DHCP is enabled.

Step 5

Enter the "Router Address" and "DHCP Server Setting" information provided by the instructor (step 1): IP Address, Subnet Mask, Router Name, Start IP Address, and Maximum Number of Users.

Click **Save Settings**.

The "Your Settings have been successfully saved. A system reboot is in progress and may take up to 60 seconds." screen appears.
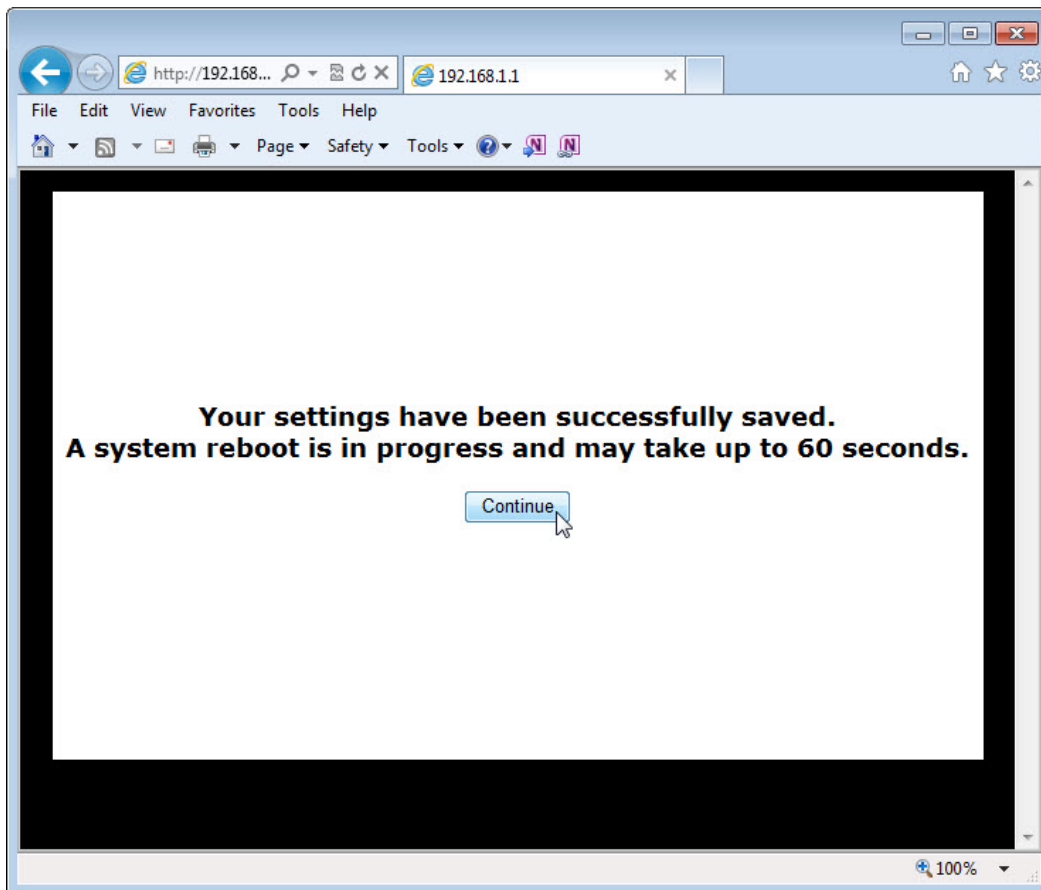
Click **Continue**.

After the router reboots, you may need to log back into the router.

Step 6

Open the command prompt.

Type **ipconfig /all**, and record the following information.

Computer IP information:

IP address _____

Subnet mask _____

Gateway _____

DNS (optional) _____

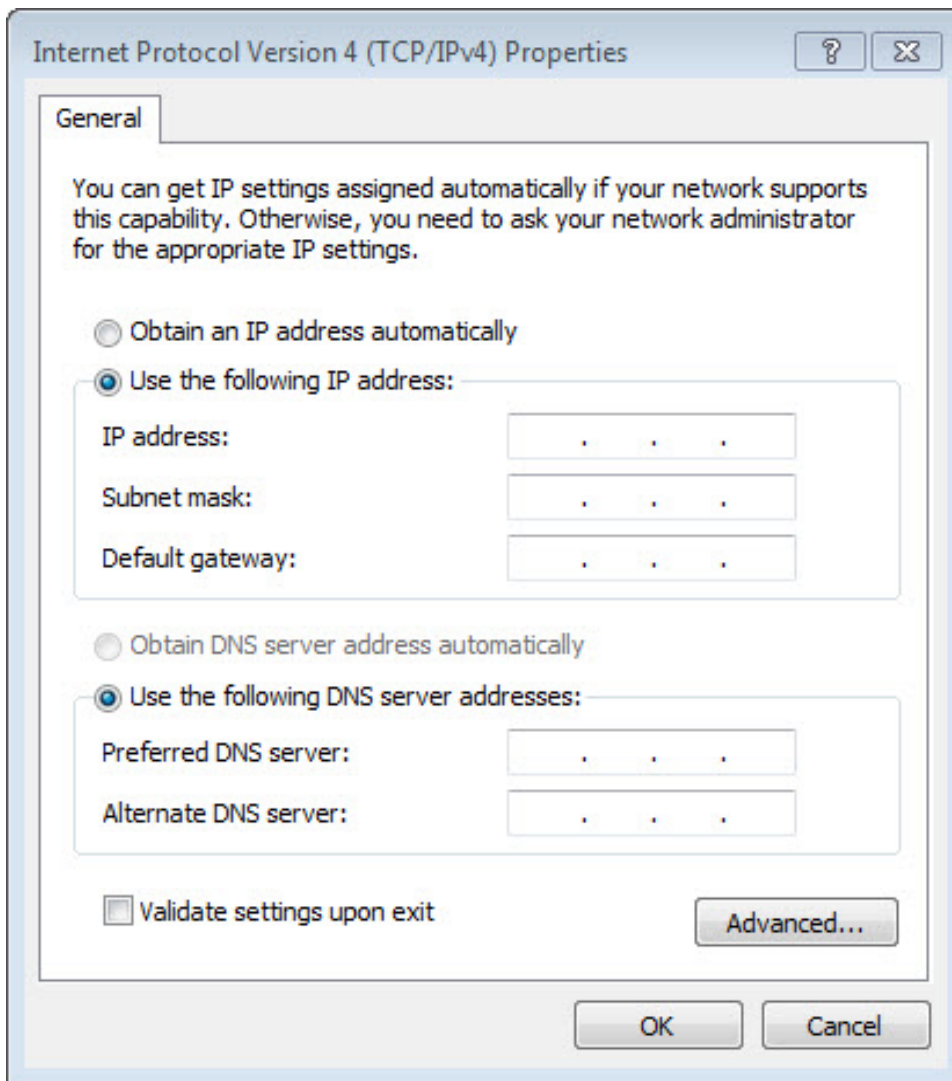Open the "Internet Protocol Version 4 (TCP/IPv4) Properties" window.

Use the recorded information to configure the NIC with static IP information.

Internet Protocol Version 4 (TCP/IPv4) Properties   ?   ☒

General

You can get IP settings assigned automatically if your network supports
this capability. Otherwise, you need to ask your network administrator
for the appropriate IP settings.

○ Obtain an IP address automatically

● Use the following IP address:

IP address: .   .   .

Subnet mask: .   .   .

Default gateway: .   .   .

○ Obtain DNS server address automatically

● Use the following DNS server addresses:

Preferred DNS server: .   .   .

Alternate DNS server: .   .   .

☐ Validate settings upon exit   Advanced...

                                        OK   Cancel

Click **OK > OK**.

Step 7

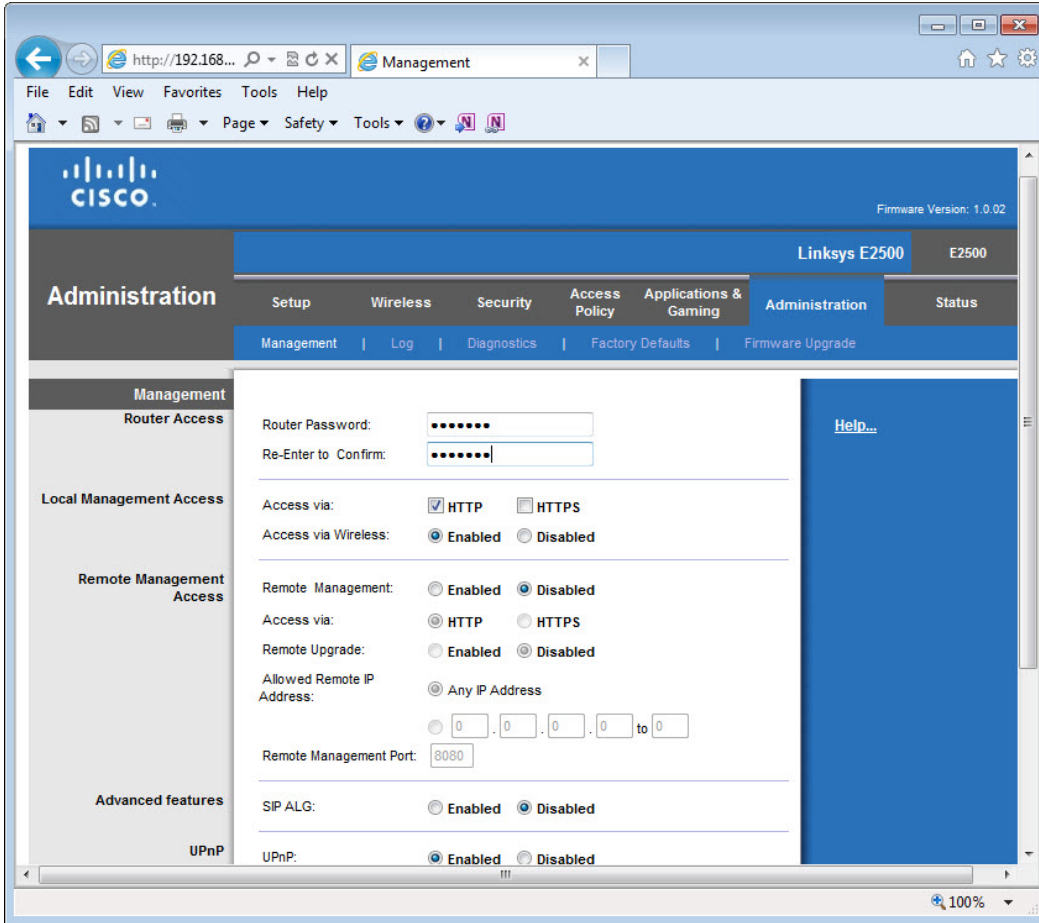Click the **Application & Gaming** tab and then select **QoS**.
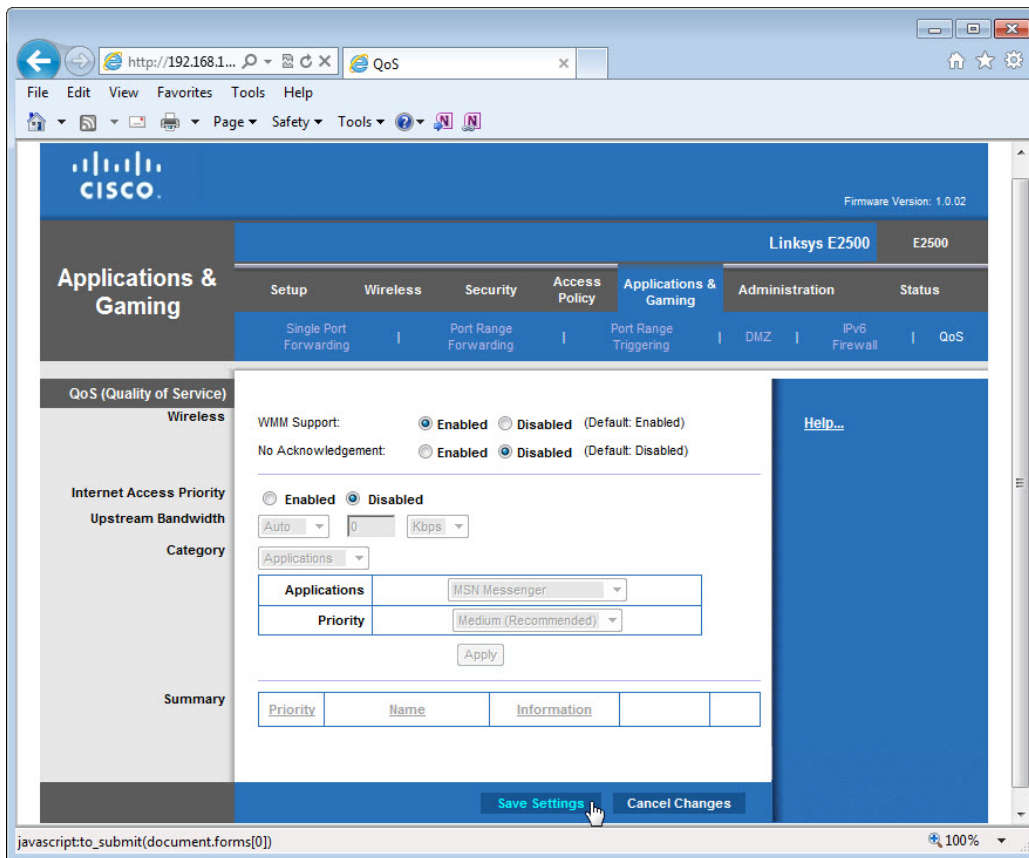
Make sure **WMM Support** is enabled. Click **Help** for more information about QoS settings.

Click **Save Settings > Continue**, if any changes were made.

Step 8

Click the **Administration** tab and then select **Management**.

Type **Network** in the "Router Password:" and "Re-Enter to Confirm:" fields.

Click **Save Settings > Continue**.

Close Internet Explorer.

Open up a new browser and log back into the router.

What IP address did you enter into the URL field of the browser?

What password did you use to access the router GUI?

Step 9

Return configurations to the following settings, unless stated otherwise by the instructor.

Connect the computer to one of the **Ethernet** ports on the wireless router with an Ethernet patch cable.

Router Address Information:
   IP address _____192.168.1.1_____

   Subnet mask _____255.255.255.0_____

   Router name _____Linksys_____

DHCP Server Setting Information:
     Start IP address _____192.168.1.100_____

     Maximum number of users _____50_____

     Static DNS 1 (optional) _____ blank _____

Router Access:
     Router Password _____Admin_____

Close the browser and log off the computer.