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:

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 a l	ocation for the 'Cisco2' network	
This compu network sett	ter is connected to a network. Windows will automatically apply the correct tings based on the network's location.	
1	Home network	
-15	If all the computers on this network are at your home, and you recognize them, this is a trusted home network. Don't choose this for public places such as coffee shops or airports.	
	Work network	
	If all the computers on this network are at your workplace, and you recognize them, this is a trusted work network. Don't choose this for public places such as coffee shops or airports.	
-	Public network	
A A	If you don't recognize all the computers on the network (for example, you're in a coffee shop or airport, or you have mobile broadband), this is a public network and is not trusted.	
Treat all f	future networks that I connect to as public, and don't ask me again.	
Help me ch	005 <u>6</u>	

Select Public network.

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🌀 🎎 Set Net	twork Location		
The netv	vork location is n	now Public	
#	Network name: Location type:	Cisco2 Public To help protect your computer on Public networks, discovery of other computers and devices on the network will be limited, and the use of the network by some programs might be restricted.	
<u>View or cha</u>	ange settings in Netwo	ork and Sharing Center	
			Close

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.

Windows Security
The server 192.168.1.1 at Linksys E2500 requires a username and password.
Warning: This server is requesting that your username and password be sent in an insecure manner (basic authentication without a secure connection).
User name ••••• Remember my credentials
OK Cancel

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

The "Setup screen" appears.

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Select your language	English	•						Help	
Internet Setup									
Internet Connection Type	Automatic Con	figuration - DHCP	•						
Optional Settings						-			
(required by some Internet Service Providers)	Host Name:								
	Domain Name:	Auto	8 2		1600				
	MTU.	Auto		Size:	1500				
Network Setup					-				
Router Address	IP Address:	192		168	1	. 1			
	Router Name :	Cisco	5584	12					
DHCP Server Setting	10				_				
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	Maximum Numb Users:	ber of 50							
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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.

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Network Setup Router Address	IP Address: Subnet Mask: Router Name :	192 255.25 ПЕ5	. 168	. 1 T	. 254			*
DHCP Server Setting	DHCP Server: Start IP Address: Maximum Number of Users: IP Address Range: Client Lease Time: Static DNS 1: Static DNS 2: Static DNS 3: WINS:	© Ena 192.1 10 192.10 0 0 0 0	abled 68 . 1. 25 88 . 1. 25 tr minute . 0 . 0 . 0 . 0	Disabled	DHCP Reset	vation		
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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	
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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.

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You can get IP settings assigned au this capability. Otherwise, you need for the appropriate IP settings.	tomatically if I to ask your i	your n networ	etwork s k admini	upports strator
🔘 Obtain an IP address automati	cally			
Ose the following IP address:				
IP address:	•	12.5		
Subnet mask:				
Default gateway:	10	543	2	
Obtain DNS server address aut	tomatically			
Ose the following DNS server a	ddresses:			
Preferred DNS server:	•			
Alternate DNS server:		199	×	
Validate settings upon exit			Adva	inced

Click OK > OK.

Step 7

Click the Application & Gaming tab and then select QoS.

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Canning	Single Port Forwarding		Port Range Forwarding		Port Range Triggering			QoS	
QoS (Quality of Service)							111-10		
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Summary	Priority	Name	Inf	ormation					
			Save	Settings 1	Cancel Change	s			
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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.

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Administration	Setup Wireles	s Security	Access Policy	Applications & Gaming	Administration	Status
	Management Log	Diagnostics	Factory	Defaults F	firmware Upgrade	
Management						
Router Access	Router Password:				Help	E
	Re-Enter to Confirm:	•••••				
Local Management Access	Access via:	Инттр Пнтт	PS			
	Access via Wireless:	Enabled Disa	bled			
Remote Management	Remote Management:	C Enabled O Disa	bled			
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	Remote Upgrade:	Enabled Disa	abled			
	Allowed Remote IP Address:	Any IP Address				
		0.0.0	. 0	to 0		
	Remote Management Port:	8080				
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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 address192.168.1.100				
Maximum number of users50				
Static DNS 1 (optional) blank				
Router Access: Router Password Admin				
Close the browser and log off the computer.				