

# Using the VPN Setup Wizard

This document describes using the VPN Setup Wizard and includes these sections:

- [VPN Setup Wizard, page 1](#)
- [Before You Begin, page 1](#)
- [Running the VPN Router Software Wizard, page 2](#)

## VPN Setup Wizard

Now you can configure a gateway-to-gateway VPN tunnel between two VPN routers in a fast and efficient way by using the VPN Setup Wizard. The VPN Setup Wizard works with users running Microsoft Windows 2000, XP, and Vista. This document describes how to run the VPN Setup Wizard.

## Before You Begin

The VPN Setup Wizard works with the following routers:

- Cisco RVS4000 4-Port Gigabit Security Router with VPN
- Cisco WRVS4400N v1.1 Wireless-N 4-Port Gigabit Security Router with VPN
- Cisco WRVS4400N v2 Wireless-N 4-Port Gigabit Security Router with VPN

Use the following instructions to configure required data using the Web Administrator Interface. For instructions on the Web Administrator Interface, see the Administration Guide for your router.

## Using the VPN Setup Wizard

### Running the VPN Router Software Wizard

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- STEP 1** Click **Firewall > Basic Settings**.
- STEP 2** Enable Remote Management and enter **8080** in the Port field. Please note that you cannot enter any other value if you want to use the VPN Wizard. Also, make sure that HTTPS has been selected.
- STEP 3** Click **Save Settings**.
- STEP 4** Click **VPN > Summary** and make sure the **Tunnel(s) available** are not zero.
- STEP 5** Ensure that the LAN IP addresses of routers with VPN are in different subnets in order for the VPN connection to work.
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**NOTE** The VPN Setup Wizard assumes that no firewall/NAT device sits in front of the VPN router.

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## Running the VPN Router Software Wizard

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- STEP 1** Access the VPN Setup Wizard in one of two ways:
- If you have an RVS4000, WRVS4400N v1.1, or WRVS4400N v2 Installation CD-ROM, insert it into your CD-ROM drive.
  - Download the VPN Setup Wizard from the Cisco Support site for your router.
- STEP 2** Go to the Start menu and click **Run**. In the field provided, enter
- D:\VPN Setup Wizard.exe
- STEP 3** The Welcome window appears. Click the **Click Here to Start** button.

## Using the VPN Setup Wizard

### Running the VPN Router Software Wizard

#### Welcome Window



- STEP 4** An informational window discussing the VPN Wizard appears. When you are ready, click **Next** to proceed.

#### Informational Window



## Using the VPN Setup Wizard

### Running the VPN Router Software Wizard

**STEP 5** The **Choose a way to build VPN** window appears.

- If your PC is local to one of the two routers, choose **Build VPN connection from Local LAN port of one router**, click **Next**, and continue with these instructions.
- If your PC is remote to the routers, choose **Build VPN connection from Internet remotely**, and see the [“Building Your VPN Connection Remotely,” on page 9](#) for instructions on this type of installation.

### Build VPN Connection From Local LAN Port of One Router



**STEP 6** If you picked **Build VPN connection from Local LAN port of one router**, enter the required data in the Configure VPN Tunnel window and click **Next** to continue.

## Using the VPN Setup Wizard

### Running the VPN Router Software Wizard

#### Configure VPN Tunnel

Small Business  
cisco VPN Setup Wizard

✓ License Agreement ✓ Prerequisites ✓ Your Location **Configure VPN Tunnel**

**Router 1 and 2 parameters (Step 1 of 3)**

Router 1 (Local) User Name: admin

Router 1 (Local) Password: \*\*\*\*\*

Router 2 (Remote) User Name: admin

Router 2 (Remote) Password: \*\*\*\*\*

☒ Router 2 (Remote) WAN IP address: 172 21 6 34

☐ Router 2 (Remote) IP by DNS Resolved:

Tunnel Name: TestTunnel

Pre-shared Key: \*\*\*\*\*

Back Next Cancel

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- **Router 1 User Name:** Enter the user name of the Router 1.
- **Router 1 Password:** Enter the password of the Router 1.
- **Router 2 User Name:** Enter the user name of the Router 2.
- **Router 2 Password:** Enter the password of the Router 2.
- **Tunnel Name:** Enter a name for this tunnel.
- **Pre-shared Key:** IKE uses the Pre-shared Key field to authenticate the remote IKE peer. Both character and hexadecimal values are acceptable in this field; e.g., “My\_@123” or “0x4d795f40313233”. Note that both sides must use the same Pre-shared Key.
- **Router 2 WAN IP address:** Enter the WAN IP address of Router 2.
- **Router 2 IP by DNS Resolved:** Enter the DDNS Domain Name of Router 2 if it does not have a static IP address for its internet connection.

## Using the VPN Setup Wizard

### Running the VPN Router Software Wizard

**STEP 7** The router configuration is checked.

#### Check Router Configuration

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cisco VPN Setup Wizard

✓ License Agreement ✓ Prerequisites ✓ Your Location **Configure VPN Tunnel**

**Router 1 and 2 parameters (Step 1 of 3)**

Router 1 (Local) User Name: admin

Router 1 (Local) Password: \*\*\*\*\*

Router 2 (Remote) User Name:

Router 2 (Remote) Password:

Checking the Router 1, please wait...

Router 2 (Remote) WAN IP address: 172 21 6 34

Router 2 (Remote) IP by DNS Resolved:

Tunnel Name: TestTunnel

Pre-shared Key: \*\*\*\*\*

Back Next Cancel

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**STEP 8** The Summary window appears. Use the **Click** box to view the VPNC Summary window.

#### Summary Window

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✓ License Agreement ✓ Prerequisites ✓ Your Location **Configure VPN Tunnel**

**Confirm Settings (Step 2 of 3)**

You can click here to view the VPNC-recommended parameters [Click](#)

Review your configuration settings.

Tunnel Name:	TestTunnel
Exchange Type:	MainMode
Router 2 Remote IP Type:	IP-ADDRESS
Router 2 WAN IP:	172.21.6.34
Router 2 IP:	192.168.1.1/255.255.255.0
Router 1 Remote IP Type:	IP-ADDRESS
Router 1 WAN IP:	172.21.6.36
Router 1 IP:	192.168.2.1/255.255.255.0

Back Go Cancel

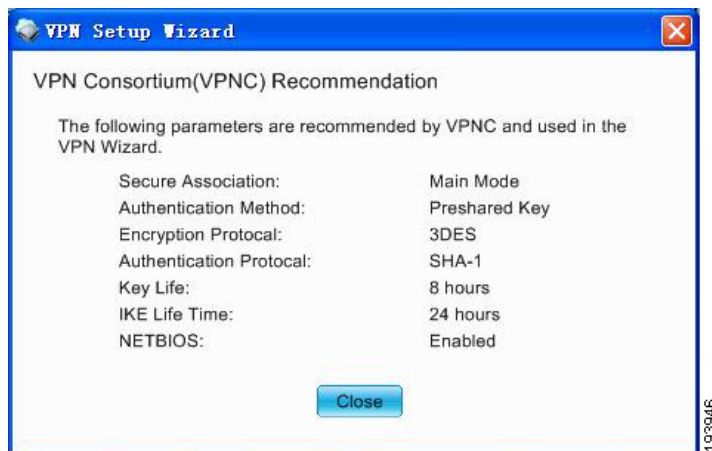
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## Using the VPN Setup Wizard

### Running the VPN Router Software Wizard

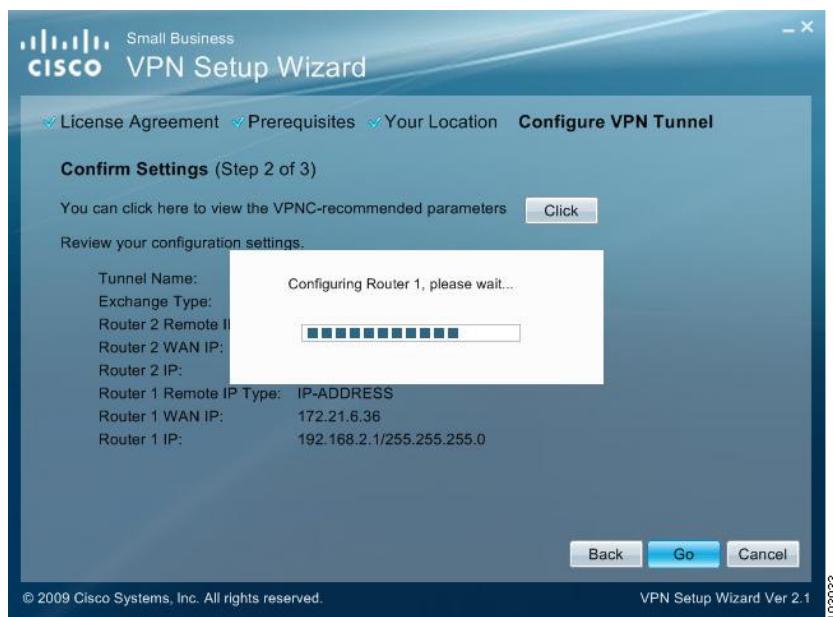
- STEP 9** The VPNC Summary window appears showing the settings that were made to industry standards. Click **Close** when you are ready to continue.

#### VPNC Summary Window



- STEP 10** In the Summary window, if all your entries appear correct, click **Go**. Otherwise click **Back** to go back and make any corrections.

#### Configure the Router

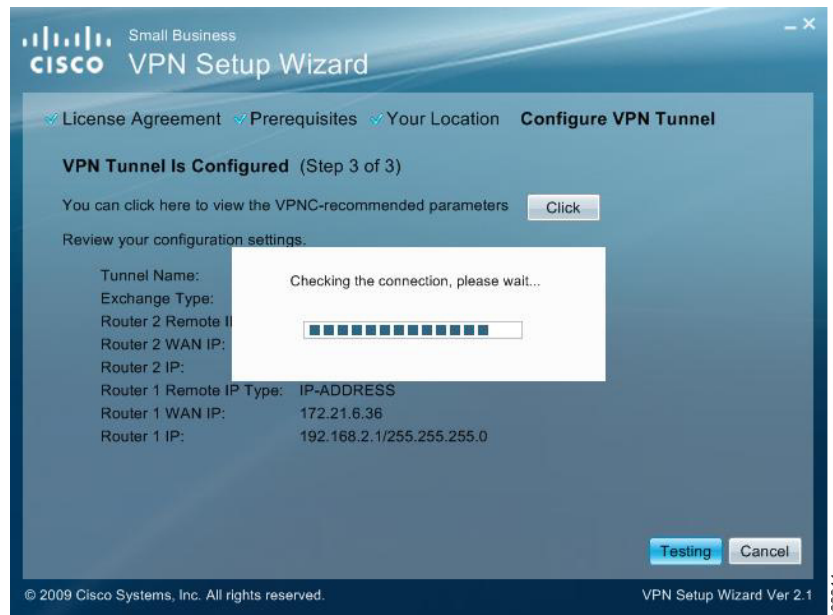


## Using the VPN Setup Wizard

### Running the VPN Router Software Wizard

**STEP 11** Click **Testing** to make sure the connection is successfully established.

#### Test the Connection



**STEP 12** When testing is done, click **Exit** to end the Wizard.

#### Exit the Wizard





## Using the VPN Setup Wizard

### Running the VPN Router Software Wizard

Congratulations! Setup is now complete. You may now log into the Web Administrator Interface and see the results.

### Test Results

The screenshot shows the Cisco RVS4000 Web Administrator Interface. The left sidebar contains a navigation menu with options: Setup, Firewall, ProtectLink, VPN (selected), Summary (highlighted), IPsec VPN, VPN Client Accounts, VPN Passthrough, QoS, Administration, and IPS. The main content area is titled 'Summary' and displays 'Tunnel Status'. It shows 1 Tunnel(s) Used and 4 Tunnel(s) Available. Below this is a table with the following data:

No.	Name	Status	Phase2 Enc/Auth	Local Group	Remote Group	Remote Gateway	Tunnel Test	Config.
1	TestTunnel	Up	3DES/SHA-1	192.168.2.0 / 255.255.255.0	192.168.1.0 / 255.255.255.0	172.21.6.34	Disconnect	Edit

At the bottom, it shows 1 Tunnel(s) Enabled and 1 Tunnel(s) Defined. The Cisco logo and 'Small Business' text are in the top left, and 'admin About Help' are in the top right.

## Building Your VPN Connection Remotely

This procedure continues from [Step 5 on page 4](#). Use this procedure to build your VPN connection from a remote PC.

**STEP 1** Choose **Build VPN connection from Internet remotely**. Click **Next** to continue.

### Build VPN Connection Remotely

The screenshot shows the Cisco VPN Setup Wizard. The top bar indicates the current step is 'Your Location', with previous steps 'License Agreement' and 'Prerequisites' completed. The main heading is 'Choose a Way to Build VPN Connection'. Below this is a diagram showing two VPN routers connected via the Internet. 'VPN Router 1 (Local)' is on the left, and 'VPN Router 2 (Remote)' is on the right. Two radio buttons are present: 'Build VPN connection from Local LAN port of one router' (unselected) and 'Build VPN connection from Internet remotely' (selected). At the bottom are 'Back', 'Next', and 'Cancel' buttons. The footer includes '© 2009 Cisco Systems, Inc. All rights reserved.' and 'VPN Setup Wizard Ver 2.1'.

- STEP 2** Enter the required data in the Configure VPN Tunnel window and then click **Next** to continue.

#### Configure VPN Tunnel Window

The screenshot shows the 'Configure VPN Tunnel' window of the Cisco Small Business VPN Setup Wizard. The window title is 'Small Business VPN Setup Wizard'. The progress bar indicates that 'License Agreement', 'Prerequisites', and 'Your Location' are completed, and 'Configure VPN Tunnel' is the current step. The main section is titled 'Router 1 and 2 parameters (Step 1 of 3)'. It contains the following fields and values:

- Router 1 User Name: admin
- Router 1 Password: \*\*\*\*\*
- Router 2 User Name: admin
- Router 2 Password: \*\*\*\*\*
- Router 1 WAN IP address: 172.21.6.34 (selected with a radio button)
- Router 1 IP by DNS Resolved: (empty field)
- Router 2 WAN IP address: 172.21.6.36 (selected with a radio button)
- Router 2 IP by DNS Resolved: (empty field)
- Tunnel Name: TestTunnel2
- Pre-shared Key: \*\*\*\*\*

At the bottom right, there are three buttons: 'Back', 'Next' (highlighted in blue), and 'Cancel'. The footer of the window displays '© 2009 Cisco Systems, Inc. All rights reserved.' and 'VPN Setup Wizard Ver 2.1'.

- **Router 1 User Name:** Enter the user name of the Router 1.
- **Router 1 Password:** Enter the password of the Router 1.
- **Router 2 User Name:** Enter the user name of the Router 2.
- **Router 2 Password:** Enter the password of the Router 2.
- **Tunnel Name:** Enter a name for this tunnel.
- **Pre-shared Key:** IKE uses the Pre-shared Key field to authenticate the remote IKE peer. Both character and hexadecimal values are acceptable in this field; e.g., "My\_@123" or "0x4d795f40313233". Note that both sides must use the same Pre-shared Key.
- **Router 1 WAN IP address:** Enter the WAN IP address of the Router 1.
- **Router 1 IP by DNS Resolved:** Enter the DDNS Domain Name of Router 1 if it does not have a static IP address for its internet connection.
- **Router 2 WAN IP address:** Enter the WAN IP address of the Router 2.
- **Router 2 IP by DNS Resolved:** Enter the DDNS Domain Name of Router 2 if it does not have a static IP address for its internet connection.

## Using the VPN Setup Wizard

### Running the VPN Router Software Wizard

**STEP 3** The router configuration is checked.

#### Check Router Configuration

Small Business  
cisco VPN Setup Wizard

License Agreement Prerequisites Your Location **Configure VPN Tunnel**

**Router 1 and 2 parameters (Step 1 of 3)**

Router 1 User Name: admin

Router 1 Password: \*\*\*\*\*

Router 2 User Name:

Router 2 Password:

Router 1 WAN IP address: 172.21.6.36

Router 1 IP by DNS Resolved:

Router 2 WAN IP address: 172.21.6.36

Router 2 IP by DNS Resolved:

Tunnel Name: TestTunnel2

Pre-shared Key: \*\*\*\*\*

Back Next Cancel

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**STEP 4** The Summary window appears. Use the **Click** box to view the VPNC Summary window.

#### Summary Window

Small Business  
cisco VPN Setup Wizard

License Agreement Prerequisites Your Location **Configure VPN Tunnel**

**Confirm Settings (Step 2 of 3)**

You can click here to view the VPNC-recommended parameters [Click](#)

Review your configuration settings.

Tunnel Name:	TestTunnel2
Exchange Type:	MainMode
Router 2 Remote IP Type:	IP-ADDRESS
Router 2 WAN IP:	172.21.6.36
Router 2 IP:	192.168.2.1/255.255.255.0
Router 1 Remote IP Type:	IP-ADDRESS
Router 1 WAN IP:	172.21.6.34
Router 1 IP:	192.168.1.1/255.255.255.0

Back Go Cancel

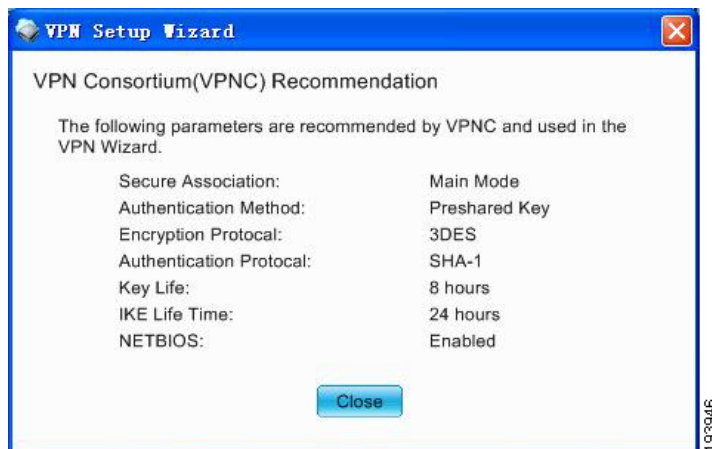
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## Using the VPN Setup Wizard

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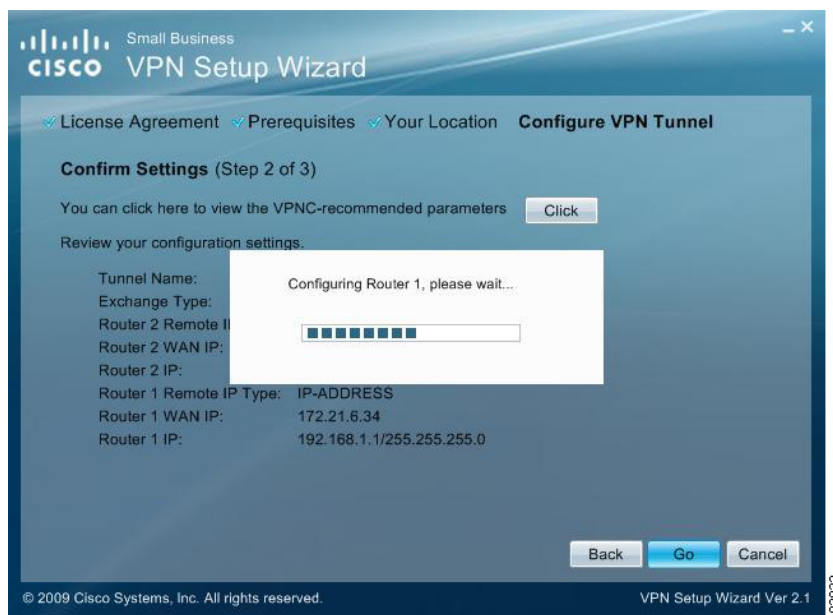
- STEP 5** The VPNC Summary window appears showing the settings that were made to industry standards. Click **Close** when you are ready to continue.

#### VPNC Summary Window



- STEP 6** In the Summary window, if all your entries appear correct, click **Go**. Otherwise click **Back** to go back and make any corrections.

#### Configure the Router

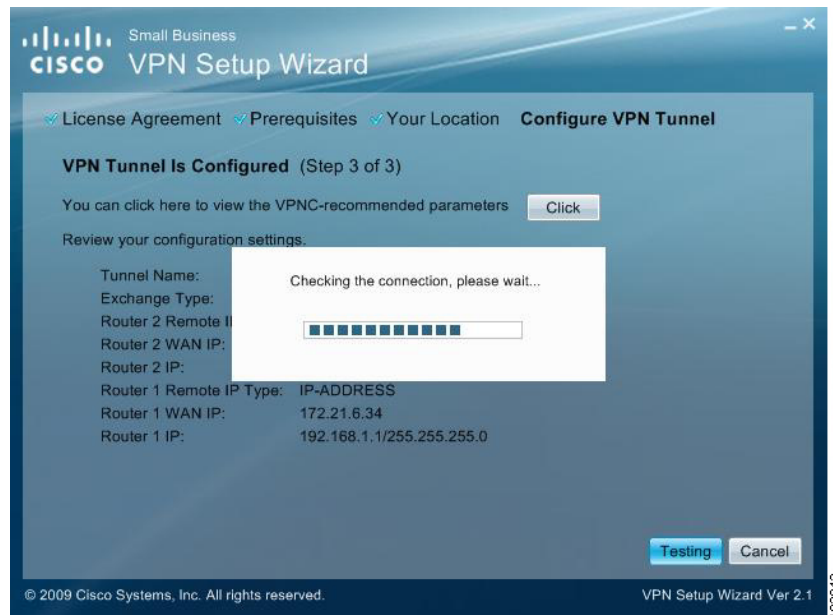


## Using the VPN Setup Wizard

### Running the VPN Router Software Wizard

**STEP 7** Click **Testing** to make sure the connection is successfully established.

#### Test the Connection



**STEP 8** When testing is done, click **Exit** to end the Wizard.



Congratulations! Setup is now complete. You may now log into the Web Administrator Interface and see the results.

View Test Results

Small Business

admin About Help

Small Business

RVS4000 4-Port Gigabit Security Router with VPN

Setup

Firewall

ProtectLink

VPN

Summary

IPSec VPN

VPN Client Accounts

VPN Passthrough

QoS

Administration

IPS

Summary

Tunnel Status

1 Tunnel(s) Used 4 Tunnel(s) Available [Detail](#)

No.	Name	Status	Phase2 Enc/Auth	Local Group	Remote Group	Remote Gateway	Tunnel Test	Config.
1	TestTunnel2	Up	3DES/SHA- 1	192.168.2.0 / 255.255.255.0	192.168.1.0 / 255.255.255.0	172.21.6.34	<a href="#">Disconnect</a>	<a href="#">Edit</a>

1 Tunnel(s) Enabled 1 Tunnel(s) Defined