Basic VPN Setup on RV130 and RV130W

Objective

A Virtual Private Network (VPN) is often used by businesses as a means of extending corporate network intranets, which are sites designed for use only by company employees. A VPN is a private network constructed within a public network infrastructure. In a typical small business environment, VPNs can extend geographic connectivity, reduce operational costs versus traditional Wide Area Networks (WANs), and improve productivity in employee workflow.

The Basic VPN Setup page lets you easily set up a Gateway-to-Gateway VPN tunnel with other location Gateway devices. The VPN tunnel also allows remote users to access your router's Local Area Network (LAN) network using VPN client software.

Note: The RV130 and RV130W support third party IPSec VPN software. For more information, refer to the product administration guide.

The objective of this document is to explain how to configure the Basic VPN on RV130 devices.

Applicable Devices | Firmware Version

- RV130 | V 1.0.3.28 (<u>Download latest</u>)
- RV130W | V 1.0.3.28 (Download latest)

View Default VPN Settings

Step 1. Use the router configuration utility to choose **VPN > Site-to-Site IPSec VPN > Basic VPN Setup**. The *Basic VPN Setup* page opens:

Basic VPN Setup			
About Basic VPN Setup			
The basic VPN setup sets most parameters to defaults as proposed by the VPN Consortium (VPNC), and assumes a Pre-shared Key, which greatly simplifies setup. After creating the policies through the Basic VPN Setup, you can always update the parameters through the Policies menu			
View Default Settings	View Default Settings		
Connection Name and Remote IP Type			
New Connection Name:			
Pre-Shared Key:			
Endpoint Information			
Remote Endpoint:	IP Address ▼		
Remote WAN (Internet) IP Address:		(Hint: 1.2.3.4 or abc.com)	
Secure Connection Remote Accessibility			
Remote LAN (Local Network) IP Address:		(Hint: 1.2.3.4)	
Remote LAN (Local Network) Subnet Mask:		(Hint: 255.255.255.0)	
Local LAN (Local Network) IP Address:		(Hint: 1.2.3.4)	
Local LAN (Local Network) Subnet Mask:		(Hint: 255.255.255.0)	
Save Cancel			

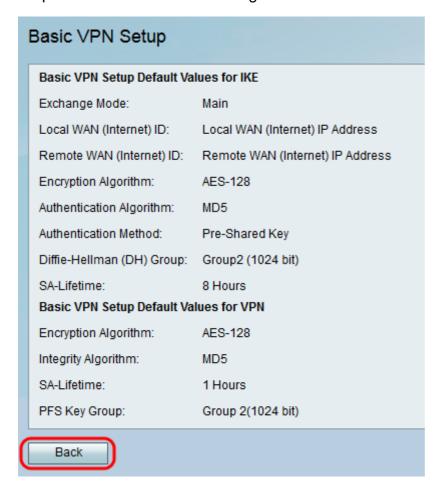
Step 2. Click the View Default Settings button to see the default values set by Basic VPN.

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View Default Settings			
Connection Name and Remote IP Type			
New Connection Name:			
Pre-Shared Key:			
Endpoint Information			
Remote Endpoint:	IP Address ▼		
Remote WAN (Internet) IP Address:		(Hint: 1.2.3.4 or abc.com)	
Secure Connection Remote Accessibility			
Remote LAN (Local Network) IP Address:		(Hint: 1.2.3.4)	
Remote LAN (Local Network) Subnet Mask:		(Hint: 255.255.255.0)	
Local LAN (Local Network) IP Address:		(Hint: 1.2.3.4)	
Local LAN (Local Network) Subnet Mask:		(Hint: 255.255.255.0)	
Save Cancel			

The Basic VPN Setup page displays the default settings:

Basic VPN Setup **Basic VPN Setup Default Values for IKE** Main Exchange Mode: Local WAN (Internet) ID: Local WAN (Internet) IP Address Remote WAN (Internet) ID: Remote WAN (Internet) IP Address Encryption Algorithm: AES-128 Authentication Algorithm: MD5 Authentication Method: Pre-Shared Key Diffie-Hellman (DH) Group: Group2 (1024 bit) SA-Lifetime: 8 Hours Basic VPN Setup Default Values for VPN AES-128 Encryption Algorithm: Integrity Algorithm: MD5 SA-Lifetime: 1 Hours PFS Key Group: Group 2(1024 bit) Back

Step 3. Click the **Back** button to go back to the *Basic VPN Setup* window.



Basic VPN Setup

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View Default Settings			
Connection Name and Remote IP Type			
New Connection Name:			
Pre-Shared Key:			
Endpoint Information			
Remote Endpoint:	IP Address ▼		
Remote WAN (Internet) IP Address:		(Hint: 1.2.3.4 or abc.com)	
Secure Connection Remote Accessibility			
Remote LAN (Local Network) IP Address:		(Hint: 1.2.3.4)	
Remote LAN (Local Network) Subnet Mask:		(Hint: 255.255.255.0)	
Local LAN (Local Network) IP Address:		(Hint: 1.2.3.4)	
Local LAN (Local Network) Subnet Mask:		(Hint: 255.255.255.0)	
Save Cancel			

Step 2. Enter a connection name in the *New Connection Name* field. This name will be used for management purposes and has no impact on the operation of the VPN.

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View Default Settings			
Connection Name and Remote IP Type			
New Connection Name:	cisco_sb)	
Pre-Shared Key:			
Endpoint Information			
Remote Endpoint:	IP Address ▼		
Remote WAN (Internet) IP Address:		(Hint: 1.2.3.4 or abc.com)	
Secure Connection Remote Accessibility			
Remote LAN (Local Network) IP Address:		(Hint: 1.2.3.4)	
Remote LAN (Local Network) Subnet Mask:		(Hint: 255.255.255.0)	
Local LAN (Local Network) IP Address:		(Hint: 1.2.3.4)	
Local LAN (Local Network) Subnet Mask:		(Hint: 255.255.255.0)	
Save Cancel			

Step 3. Enter a pre-shared key in the *Pre-Shared Key* field. This key is needed by a VPN Client or Gateway to establish a VPN connection.

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View Default Settings	View Default Settings		
Connection Name and Remote IP Type			
New Connection Name:	cisco_sb		
Pre-Shared Key:	password1		
Endpoint Information			
Remote Endpoint:	IP Address ▼		
Remote WAN (Internet) IP Address:		(Hint: 1.2.3.4 or abc.com)	
Secure Connection Remote Accessibility			
Remote LAN (Local Network) IP Address:		(Hint: 1.2.3.4)	
Remote LAN (Local Network) Subnet Mask:		(Hint: 255.255.255.0)	
Local LAN (Local Network) IP Address:		(Hint: 1.2.3.4)	
Local LAN (Local Network) Subnet Mask:		(Hint: 255.255.255.0)	
Save Cancel			

Step 4. In the *Remote Endpoint* drop-down list, choose **IP Address** or **FQDN** for the address type that the remote gateway will use to establish a connection.

Basic VPN Setup About Basic VPN Setup The basic VPN setup sets most parameters to defaults as proposed by the VPN Consortium (VPNC), and assumes a Pre-shared Key, which greatly simplifies setup. After creating the policies through the Basic VPN Setup, you can always update the parameters through the Policies menu View Default Settings Connection Name and Remote IP Type New Connection Name: cisco_sb Pre-Shared Key: password1 **Endpoint Information** IP Address Remote Endpoint: IP Address Remote WAN (Internet) IP Address: (Hint: 1.2.3.4 or abc.com) FQDN Secure Connection Remote Accessibility Remote LAN (Local Network) IP Address: (Hint: 1.2.3.4) Remote LAN (Local Network) Subnet Mask: (Hint: 255.255.255.0) Local LAN (Local Network) IP Address: (Hint: 1.2.3.4) Local LAN (Local Network) Subnet Mask: (Hint: 255.255.255.0) Save Cancel

The available options are defined as follows:

- IP Address A unique string of numbers separated by periods that identifies each machine using the Internet Protocol to communicate over a network.
- FQDN (Fully Qualified Domain Name) The complete domain name for the internet, a specific computer, or a specific host. The FQDN consists of two parts: the hostname and the domain name. For example, an FQDN for a hypothetical mail server might be *mymail.companyname.org*. The hostname is *mymail*, and the host is located within the domain *companyname.org*.

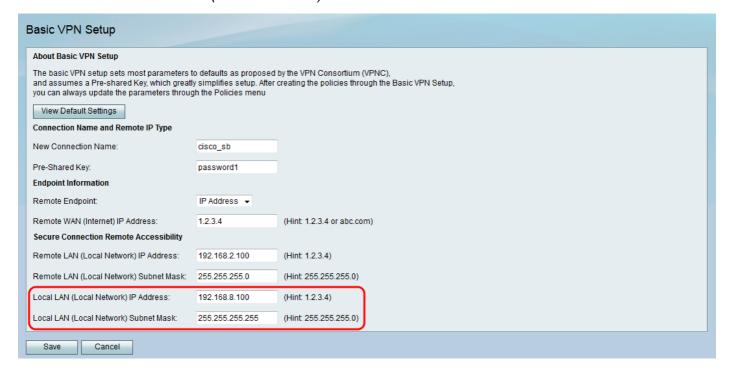
Step 5. Enter the IP Address or FQDN, depending on your selection in step 4, into the *Remote WANs (Internet) IP Address* field.

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View Default Settings	View Default Settings		
Connection Name and Remote IP Type			
New Connection Name:	cisco_sb		
Pre-Shared Key:	password1		
Endpoint Information			
Remote Endpoint:	IP Address ▼		
Remote WAN (Internet) IP Address:	64 32 941 735	(Hint: 1.2.3.4 or abc.com)	
Secure Connection Remote Accessibility			
Remote LAN (Local Network) IP Address:		(Hint: 1.2.3.4)	
Remote LAN (Local Network) Subnet Mask:		(Hint: 255.255.255.0)	
Local LAN (Local Network) IP Address:		(Hint: 1.2.3.4)	
Local LAN (Local Network) Subnet Mask:		(Hint: 255.255.255.0)	
Save Cancel			

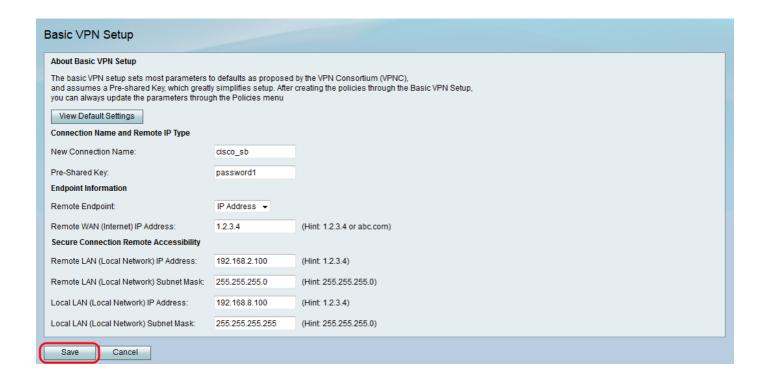
Step 6. Enter the IP address and subnet mask of the remote LAN in the *Remote LAN (Local Network) IP Address* and *Remote LAN (Local Network) Subnet Mask* fields.

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View Default Settings	View Default Settings		
Connection Name and Remote IP Type			
New Connection Name:	cisco_sb		
Pre-Shared Key:	password1		
Endpoint Information			
Remote Endpoint:	IP Address ▼		
Remote WAN (Internet) IP Address:	1.2.3.4	(Hint: 1.2.3.4 or abc.com)	
Secure Connection Remote Accessibility			
Remote LAN (Local Network) IP Address:	192.168.2.100	(Hint: 1.2.3.4)	
Remote LAN (Local Network) Subnet Mask:	255.255.255.0	(Hint: 255.255.255.0)	
Local LAN (Local Network) IP Address:		(Hint: 1.2.3.4)	
Local LAN (Local Network) Subnet Mask:		(Hint: 255.255.255.0)	
Save Cancel			

Step 7. Enter your IP Address and subnet mask of the local LAN in the Local LAN (Local Network) IP Address and Local LAN (Local Network) Subnet Mask fields.



Step 8. Click Save to save the settings.



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