

AN-310-RT-4L2W: IPSEC (GATEWAY TO GATEWAY) VPN SETUP

Use Case

Connecting two networks, such as a remote office location with the main office.

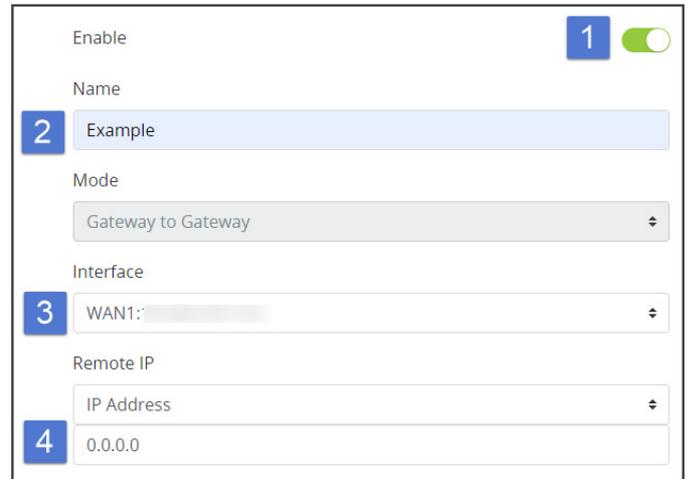
Information

Because IPsec VPNs connect two sites together, you need to configure the VPN tunnel on both routers.

Path - **Advanced** > **VPN** > **IPSec**

Create a New Tunnel

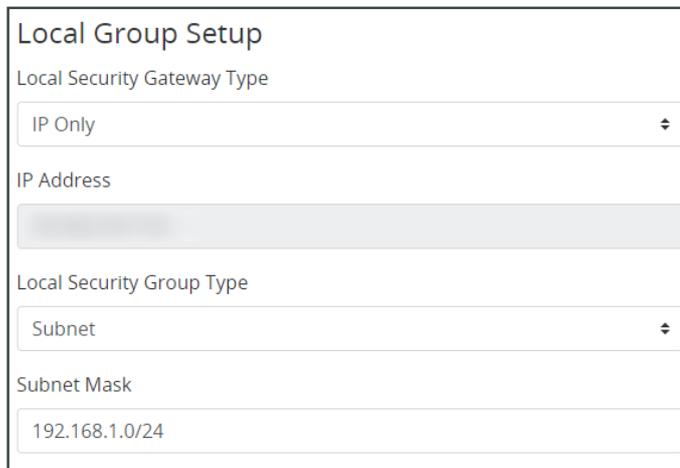
1. Click **Add a New Tunnel** and **Enable** it.
2. Give your tunnel a **Name**.
3. **Interface** is the WAN port you're using for the connection. Use the drop-down to make your selection.
4. Remote IP is the site you're connecting to. Use the drop-down to select **IP Address** or **IP by DNS Resolved** (DDNS). Enter the WAN IP, or DDNS, in the field below.



The screenshot shows the 'Create a New Tunnel' configuration page. It includes the following fields and callouts:

- 1**: 'Enable' toggle switch, which is turned on.
- 2**: 'Name' text input field containing 'Example'.
- 3**: 'Interface' dropdown menu showing 'WAN1:'.
- 4**: 'Remote IP' dropdown menu set to 'IP Address' and a text input field containing '0.0.0.0'.

Local Group Setup



The screenshot shows the 'Local Group Setup' configuration page with the following settings:

- Local Security Gateway Type: IP Only
- IP Address: [Redacted]
- Local Security Group Type: Subnet
- Subnet Mask: 192.168.1.0/24

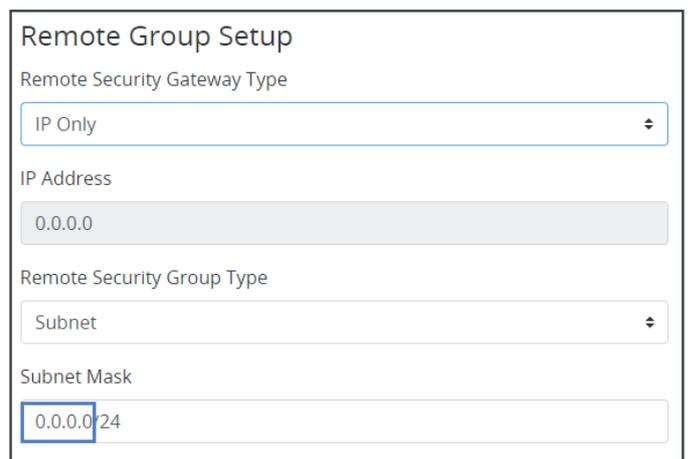
These settings will auto-populate. The **Local Security Gateway Type** drop-down gives you more authentication options.

Remote Group Setup

Remote Group Setup auto-fills with the information you entered in Step 4 of Create a New Tunnel.

The **Subnet Mask** field shows the CIDR notation of the Remote Group.

Important - Verify the last digit is zero, to include the entire IP range.



The screenshot shows the 'Remote Group Setup' configuration page with the following settings:

- Remote Security Gateway Type: IP Only
- IP Address: 0.0.0.0
- Remote Security Group Type: Subnet
- Subnet Mask: 0.0.0.0/24

IPSec Setup

IPSec Setup

Keying Mode
IKE w/ Preshared Key

Keying Change
IKE V1

Phase 1 DH Group
Group 1 - 768 Bit

Phase 1 Encryption
AES-128

Phase 1 Authentication
MD5

Phase 1 SA Lifetime
28800
seconds (Range: 120-86400, Default: 28800)

Phase 2 DH Group
Group 1 - 768 Bit

Phase 2 Encryption
AES-128

Phase 2 Authentication
MD5

Phase 2 SA Lifetime
3600
seconds (Range: 120-86400, Default: 3600)

Preshared Key

All of these fields are customizable but can be left at their defaults.

Important - The **Preshared Key** must match on both routers.

Second Router Setup

The second router's setup is the same. Keep in mind your **Local** and **Remote Groups** are switched.

Successful Connection

With both router setups complete, your connection should look like the image to the right.

- The **Release** button terminates the VPN connection.
- The **Reconnect** button is self-explanatory. It reconnects your VPN tunnel, if disconnected.

CONTACTING TECH SUPPORT

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IPSec

Tunnel	1
Name	Test
Mode	Gateway to Gateway
Server IP	
Remote IP	

Connected