

ACCESS POINT: GATEWAY TO GATEWAY VPN SETUP

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Step 1: Location in the Router

This is one of many VPN Tunnel options available on the router.

- Navigate to **Advanced > VPN > Gateway to Gateway**.

Step 2: Local Group Setup (Router 1)

- Note the yellow highlighted local network settings:
 - » WAN address of the network provided by the ISP
 - » Subnet that the network is currently configured for (IP address)
 - » Subnet mask of the local network.

Add a New Tunnel	
Tunnel No.	1
Tunnel Name :	Test
Interface :	WAN1 ▾
Enable :	<input checked="" type="checkbox"/>
Local Group Setup	
Local Security Gateway Type :	IP Only ▾
IP Address :	208.104.xxx.xxx
Local Security Group Type :	Subnet ▾
IP Address :	192.168.1.0
Subnet Mask :	255.255.255.0

Step 3: Remote Group Setup (Router 1)

- The items highlighted in yellow in the image below are for the required settings from the remote location to which the VPN connects.
 - » **Remote Group IP Type:** WAN address of the remote location
 - » **IP Address:** Subnet IP scheme for the remote local network. (Cannot match Local Group IP address scheme, i.e. 192.168.1. *** Local, and 192.168.1. *** remote).
 - » **Subnet Mask:** Subnet mask of the remote local network.

Remote Group Setup	
Remote Security Gateway Type :	IP Only ▾
Remote Group IP Type :	IP Address ▾ :
	204.108.xxx.xxx x
Remote Security Group Type :	Subnet ▾
IP Address :	192.168.2.0
Subnet Mask :	255.255.255.0

Step 4: IP SEC (Router 1)

- Change **Phase 1 Encryption** to AES-128 (Minimum).
- Disable the **Pre-Shared Key Strength Meter** for no minimum password requirements.
- Enter password in **Pre-Shared Key** section. (This must match on both routers).

IPSec Setup	
Keying Mode :	IKE with Preshared key ▾
Phase 1 DH Group :	Group 1 - 768 bit ▾
Phase 1 Encryption :	AES-128 ▾
Phase 1 Authentication :	MD5 ▾
Phase 1 SA Life Time :	28800 seconds (Range: 120-86400, Default: 28800)
Perfect Forward Secrecy :	<input checked="" type="checkbox"/>
Phase 2 DH Group :	Group 1 - 768 bit ▾
Phase 2 Encryption :	DES ▾
Phase 2 Authentication :	MD5 ▾
Phase 2 SA Life Time :	3600 seconds (Range: 120-28800, Default: 3600)
Preshared Key :	*****
Minimum Preshared Key Complexity :	<input type="checkbox"/> Enable
Preshared Key Strength Meter :	
Advanced -	

Step 6 - Local Group Setup (Router 2)

- Create a new **Tunnel Name**.
- Local network settings are populated automatically.
 - » Notice that the subnet IP address scheme of **Router 2** is different than **Router 1**.

Add a New Tunnel	
Tunnel No.	1
Tunnel Name :	test 2 x
Interface :	WAN1 ▾
Enable :	<input checked="" type="checkbox"/>
Local Group Setup	
Local Security Gateway Type :	IP Only ▾
IP Address :	204.108.xxx.xxx
Local Security Group Type :	Subnet ▾
IP Address :	192.168.2.0
Subnet Mask :	255.255.255.0

Step 7 - Remote Group Setup (Router 2)

- **Remote Group Type:** WAN address of remote network.
- **IP Address:** Subnet IP scheme of the remote network.
- Again, notice how the subnet IP address schemes are different between the two networks.

Remote Group Setup	
Remote Security Gateway Type :	IP Only <input type="button" value="v"/>
Remote Group IP Type :	IP Address <input type="button" value="v"/> :
	<input type="text" value="208.104.xxx.xxx"/>
Remote Security Group Type :	Subnet <input type="button" value="v"/>
IP Address :	<input type="text" value="192.168.1.0"/>
Subnet Mask :	<input type="text" value="255.255.255.0"/>

Step 8 - IP SEC Setup (Router 2)

- Change **Phase 1 Encryption** to AES-128 (Minimum).
- Disable the **Pre-Shared Key Strength Meter** for no minimum password requirements.
- Enter password in **Pre-Shared Key** section. (Must match on both routers).

IPSec Setup	
Keying Mode :	IKE with Preshared key <input type="button" value="v"/>
Phase 1 DH Group :	Group 1 - 768 bit <input type="button" value="v"/>
Phase 1 Encryption :	AES-128 <input type="button" value="v"/>
Phase 1 Authentication :	MD5 <input type="button" value="v"/>
Phase 1 SA Life Time :	<input type="text" value="28800"/> seconds (Range: 120-86400, Default: 28800)
Perfect Forward Secrecy :	<input checked="" type="checkbox"/>
Phase 2 DH Group :	Group 1 - 768 bit <input type="button" value="v"/>
Phase 2 Encryption :	DES <input type="button" value="v"/>
Phase 2 Authentication :	MD5 <input type="button" value="v"/>
Phase 2 SA Life Time :	<input type="text" value="3600"/> seconds (Range: 120-28800, Default: 3600)
Preshared Key :	<input type="text" value="*****"/>
Minimum Preshared Key Complexity :	<input type="checkbox"/> Enable
Preshared Key Strength Meter :	
Advanced -	

Step 9 - IP SEC Advanced (Router 2)

- Select the **Advanced** option under the **IP SEC** section, then select **Keep-Alive** so the tunnel will not close.

Gate

Advanced	
<input type="checkbox"/>	Aggressive Mode
<input type="checkbox"/>	Compress (Support IP Payload Compression Protocol(IPComp))
<input checked="" type="checkbox"/>	Keep-Alive
<input type="checkbox"/>	AH Hash Algorithm MD5 ▾
<input type="checkbox"/>	NetBIOS Broadcast
<input type="checkbox"/>	NAT Traversal
<input type="checkbox"/>	Dead Peer Detection Interval <input type="text"/> seconds
<input type="checkbox"/>	Tunnel Backup :
	Remote Backup IP Address : <input type="text"/>
	Local Interface : WAN1 ▾
	VPN Tunnel Backup Idle Time : <input type="text"/> seconds (Range:30-999 sec)
<input type="checkbox"/>	Split DNS :
	DNS1 : <input type="text"/>
	DNS2 : <input type="text"/>
	Domain Name 1 : <input type="text"/>
	Domain Name 2 : <input type="text"/>
	Domain Name 3 : <input type="text"/>
	Domain Name 4 : <input type="text"/>