

FBR-4000 IPSec VPN (static IP)

V.S.

WBR-3460 IPSec VPN (dynamic IP)

Information

FBR-4000 VPN (Router A)

WAN IP: Static; 61.31.163.203

LAN IP: 192.168.1.1

LAN IP subnet mask: 255.255.255.0

WBR-3460A VPN (Router B)

WAN IP: Dynamic; 3460vpn.dyndns.org

LAN IP: 192.168.0.1

LAN IP subnet mask: 255.255.255.0

Setup:

FBR-4000:

1. VPN Configuration/ IPSec Policy Setup

The screenshot displays the configuration interface for the FBR-4000 Multi-WAN VPN Router. The browser window shows the URL `http://192.168.1.1/`. The page title is "FBR-4000 MULTI-WAN VPN ROUTER". The left sidebar contains navigation menus for Basic Configuration, Advanced Port, Advanced Configuration, Security Management, VPN Configuration, Bandwidth Management, Management Assistant, and Network Info. The main content area is titled "IPSec Policy Setup" and includes a "Help" icon.

Policy Entry

Name	State	Interface	Session	Local Identity Option
3460vpn	<input checked="" type="checkbox"/> Enabled	WAN 1	Session 1	IP Address

Traffic Selector

Protocol Type	Local Type	IP Address	Subnet Mask	Port Range
Any	Subnet	192.168.1.0	255.255.255.0	0 ~ 0
	Remote Type	IP Address	Subnet Mask	Port Range
	Subnet	192.168.0.0	255.255.255.0	0 ~ 0

Remote Security Gateway

Identity Type	Value
Domain Name	3460vpn.dyndns.org

Security Level

Encapsulation Format	ESP
Encryption Method	DES
Authentication Method	MD5

Key Management

Key Type	Autokey (IKE)	
Phase 1 Negotiation	Main Mode	
Perfect Forward Secrecy	No PFS	
Preshared Key	123456	Characters / Hex: 0x
Key Lifetime	In Time: 3600 Seconds	Note: 0 for no expiry
	In Volume: 0 kbytes	

Action

Disconnect Flush Tunnel Reload Policy Tunnel Status .. Set Options ..

2. VPN Configuration/ IKE Global Setup

FBR-4000 Multi-WAN VPN Router - Microsoft Internet Explorer

File Edit View Favorites Tools Help

Address http://192.168.1.1/

level
one

FBR-4000

MULTI-WAN VPN ROUTER

Basic Configuration
Advanced Port
Advanced Configuration
Security Management
VPN Configuration
IKE Global Setup
IPSec Policy Setup
Mesh Group
VPN Logs
Bandwidth Management
Management Assistant
Network Info

IKE Global Setup

Global List (Phase 1)

WAN	State	ISAKmp Port	DH Group	Encryption Method	Authentication Method
WAN 1	Enabled	500	DH Group 2 (1024-bit)	DES	MD5
WAN 2	Disabled	500	DH Group 2 (1024-bit)	3DES	MD5
WAN 3	Disabled	500	DH Group 2 (1024-bit)	3DES	MD5
WAN 4	Disabled	500	DH Group 2 (1024-bit)	3DES	MD5

Global Parameters

WAN 1

Enable Setting

ISAKmp Port

Phase 1 DH Group

Phase 1 Encryption Method

Phase 1 Authentication Method

Phase 1 SA Lifetime Seconds

Retry Counter

Retry Interval Seconds

Maxtime to complete Phase 1 Seconds

Maxtime to complete Phase 2 Seconds

Count Per Send

NAT Traversal Port

Log Level

Log Level

Tunnel Action

All Tunnels

Done Internet

WBR-3460A:

3. Advanced VPN

level[®]
one

[Setup Wizard](#)

[LAN](#)

[Wireless](#)

[Password](#)

[Mode](#)

[Status](#)

[Advanced](#)

 [Help](#)

Advanced

Features

[Internet](#) DMZ, URL Filter

[Dynamic DNS](#) Use with "Virtual Servers" to allow Internet users to connect to your Servers using a URL instead of an IP address.

[Firewall Rules](#) Create and manage Firewall Rules.

[Firewall Services](#) Modify the list of Services which are available when creating Firewall Rules.

[Options](#) MTU size, UPnP.

[Schedule](#) Define the schedule used in URL filter and Firewall Rules.

[Virtual Servers](#) Allow Internet users to access Servers on your LAN.

[VPN](#) View, create and deleted VPN Policies.

Administration

[PC Database](#) View and modify the list of PCs.

[Config File](#) Backup or restore the configuration file for the Wireless Router.

[Logs](#) Set system log options, view all logs.

[E-mail](#) Set E-Mailing of log files and alerts

[Diagnostics](#) Ping, DNS Lookup.

[QoS](#) Quality Of Service.

[Remote Admin](#) Allow management of this device via the Internet.

[Routing](#) Only required if your LAN has other Routers or Gateways.

[Upgrade Firmware](#) The firmware can be upgraded using your Web Browser.

Done Internet

4. Click on "Add Auto Policy"

VPN Policies - Microsoft Internet Explorer

File Edit View Favorites Tools Help

Address http://192.168.0.1/vpn_list.htm Go Links

VPN Policies

#	Enable	Name	Endpoint	Type	Local LAN	Remote LAN	ESP
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Save Edit Delete

Add Auto Policy Add Manual Policy VPN Status Help

Done Internet

5. Enter the VPN information as shown below:

VPN Policy - Auto - Microsoft Internet Explorer

File Edit View Favorites Tools Help

Address <http://192.168.0.1/setup.cgi> Go Links »

VPN - Auto Policy

General Policy Name:

Remote VPN Endpoint

Address Type:

Address Data:

NetBIOS Enable

Local LAN IP Address:

IP address:

Subnet Mask:

Remote LAN IP Address:

IP address:

Subnet Mask:

IKE Direction:

Exchange Mode:

Diffie-Hellman (DH) Group:

Local Identity Type:

Data:

Remote Identity Type:

Data:

SA Parameters Encryption:

Authentication:

Pre-shared Key:

SA Life Time: (Seconds)

Enable PFS (Perfect Forward Security)

Done Internet

6. Finish

VPN Policies - Microsoft Internet Explorer

File Edit View Favorites Tools Help

Address http://192.168.0.1/vpn_list.htm Go Links »

VPN Policies

#	Enable	Name	Endpoint	Type	Local LAN	Remote LAN	ESP
1	<input checked="" type="checkbox"/>	3460vpn	61.31.163.203	Auto	192.168.0.0/ 255.255.255.0	192.168.1.0/ 255.255.255.0	DES

Save Edit Delete

Add Auto Policy Add Manual Policy VPN Status Help

Done Internet

- Initiate the VPN connection from FBR-4000 and click on VPN Status on WBR-3460A. Once VPN is successfully established, remote endpoint and SPI information would appear.

The screenshot displays a web browser interface for configuring a Level One router. The main window shows the 'VPN Policies' page, which includes a table of existing policies and buttons for management.

#	Enable	Name	Endpoint	Type	Local LAN	Remote LAN	ESP
1	<input checked="" type="checkbox"/>	3460vpn	61.31.163.203	Auto	192.168.0.0 / 255.255.255.0	192.168.1.0 / 255.255.255.0	DES

Buttons: Save, Edit, Delete

Buttons: Add Auto Policy, Add Manual Policy, VPN Status, Help

The inset window shows the 'VPN Status' page, which displays 'Current VPN Tunnels (SAs)' in a table:

Policy Name	Remote Endpoint	SPI (In)	SPI (Out)	Action
3460vpn	61.31.163.203	7ad37c40	ea639e26	Drop

Buttons: Auto Refresh, VPN Log, Close

System status: Auto-Refresh is OFF, Internet connection active.

8. Once VPN tunnel is created, you can ping both LAN networks. In this example, the testing PC is on 192.168.1.x subnet and it can ping both LAN IP of routers.

