# Configuring an IPSEC VPN using the MAC Built in Client to RV32x Series Router

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## Objective

The objective of this document is to show users how to use the MAC Built in client to connect to an RV32x Router.

## **Applicable Devices | Software Version**

RV320 | <u>1.3.2.02</u>

RV325 | <u>1.4.2.22</u>

### Introduction

An Internet Protocol Security Virtual Private Network (IPSEC VPN) allows you to securely obtain remote resources by establishing an encrypted tunnel across the internet. The MAC built-in client, is a built in Client available on all MACs that allows you to connect to the VPN using IPSEC. The RV32x routers work as IPSEC VPN servers and support the MAC built-in client.

This document has two parts:

Configure RV32x Series Router

Configure MAC built-in Client

#### Configure RV32x Series Router:

We will start by configuring the Client-to-Site VPN on the RV32x series router.

Step 1

Log in to the router using valid credentials.



Navigate to VPN > VPN passthrough. Confirm IPSEC Passthrough is enabled and click Save.

cisco RV320 Gigabit Dual WAN VPN Router					
Getting Started	VPN Passtbrough				
Setup Wizard	vi ivi assunougi				
System Summary	IPSec Passthrough: 🗹 Enable				
▶ Setup	PPTP Passtbrough: V Enable				
► DHCP					
<ul> <li>System Management</li> </ul>	L21P Passthrough: M Enable				
Port Management	Sava Cancel				
▶ Firewall	Save				
VPN					
Summary					
Gateway to Gateway					
Client to Gateway					
VPN Passthrough 2					
OpenVPN					
<ul> <li>Certificate Management</li> </ul>					
▶ Log					
User Management					

#### Step 3

Navigate to VPN > Client to Gateway.

VPN	(1)
Summary	
Gateway to Gatewa	
Client to Gateway	2
нехупіч (эроке)	$\sim$
VPN Passthrough	
PPTP Server	

#### Step 4

Select the Easy VPN Option.

Client to Gateway		
Add a New Easy VPN		
		Easy VPN

Configure *Tunnel Name*, enter a *Password*, select the *WAN interface*, and *enable* the Tunnel and select *Tunnel Mode*. *Click* **Save** to save the configurations.

Full tunnel mode chosen and password complexity has been disabled.

Client to Gateway	
Add a New Easy VPN	
	O Tunnel O Group VPN    Easy VPN
Group No.	1
Tunnel Name:	CiscoVPN
Minimum Password Complexity:	Enable
Password:	Cisco123
Interface:	WAN1 🗸
Enable:	
Tunnel Mode:	Full Tunnel
IP Address:	192.168.1.0
Subnet Mask:	255.255.255.0
Extended Authentication:	Default - Local Database V Edit
Save Cancel	

#### Step 6

Navigate to **VPN > Summary** and confirm VPN tunnel has been configured.



#### Step 7

Confirm the VPN tunnel has been configured.

Group VPN Status										
Connection Table										
	Туре	Group Name	Tunnels		Phase2 Enc/Auth/Grp	Local Group	Remote Client	Details	Action	
0	Easy VPN	CiscoVPN	0		AES/MD5	192.168.1.0 255.255.255.0	CiscoVPN		N/A	
Ac	ld Edit Delete	e								

Navigate to User Management and select the add button under User Management table

#### Step 9

Enter Username, Password, select Group, Domain and click Save.

User Management Table							
Username	Password	Group	Domain				
cisco	****	Administrator	Default				
User		All Users ~	Default				
Add Edit Delete							
Save Cancel							
	ser Management Table Userame User User Save Cancel	ser Management Table Usermane Password User User Cancel Cancel	ser Management Table Username Password Group dsco Administrator User All Users				

#### **Configure MAC Built in Client**

We will now configure the MAC Built in Client.

#### Step 1

Navigate to the apple icon in the tool bar. Choose System Preferences.



#### Navigate to Network



#### Step 3

Go to Add button and then select interface tab will appear.



Select *Interface* as **VPN**, *VPN Type* as **Cisco IPSec**, and enter the *Service Name* to match the Tunnel name that was configured in your router. Click **Create**.



#### Step 5

Navigate to the VPN, enter Server Address, Account Name and Password.

The account name and password are those configured in User Accounts.

••• <>		Network	Q Search
	Location:	Automatic	0
Wi-Fi Connected Bluetooth PAN Not Connected	() () ()	Status: Not Connec	sted
Not Connected ThundeIt Bridg Not Connected CiscoVPN Not Connected	«> •<>	Server Address: 192,168,1 Account Name: User Password: •••••	.10
		Authentic	ation Settings
+ - •		Show VPN status in menu bar	Advanced (?)
			Revert Apply

Choose **Authentication Settings** button, the Machine Authentication tab will appear. Enter the Tunnel password key in *Shared Secret* and Tunnel name in *Group Name*, press **OK**.



#### Step 7

Press Connect, a warning will appear, press Apply.

	Network	Q Search
Wi-Fi Connected     Bluetooth     Not Connected     Kot Connected     Mot Connected     Thundett Bridge     Consected     CiscoVPN     Not Connected	Connecting without applying your use the previous settings. Would y apply your changes before connect Cancel Don't Apply Server Address: 192.168.1. Account Name: User Password: •••••	changes will rou like to sting? Apply 2
+ - *-	Authentic: Connect	ation Settings 1 Advanced ?
		Revert Apply

The connection status should show as Connected.



## Conclusion

We have configured the Easy VPN tunnel using IPSEC IKEV1 between the RV32X series router and a MAC computer by using the MAC built-in client. It's important to be sure the tunnel is configured on the router using Easy VPN for this connection and entering the same information on the client side to ensure a connection. Now you are able to connect to your VPN and access the information you may need to access.