

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 | [1.3.2.02](#)

RV325 | [1.4.2.22](#)

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

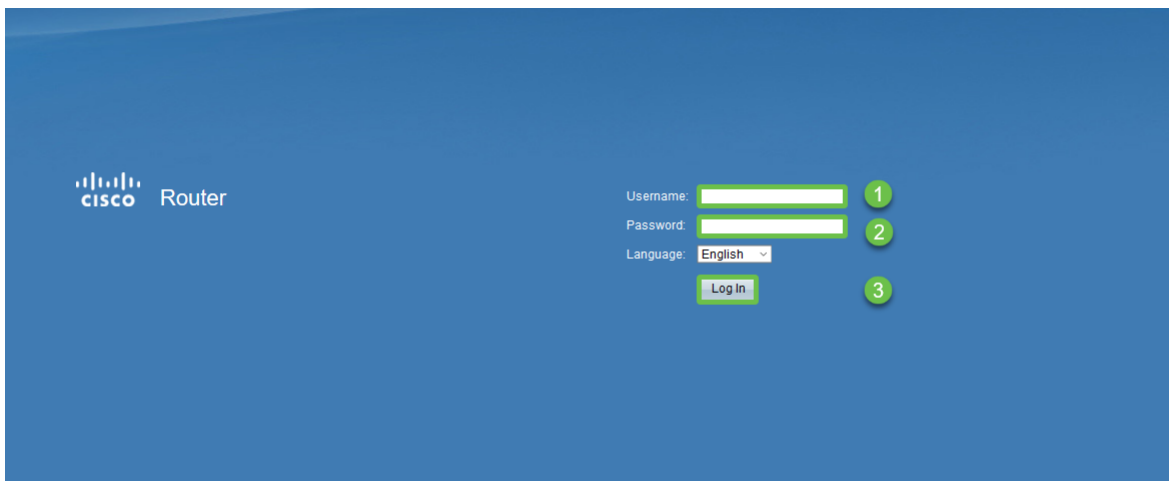
Configure MAC built-in Client

Configure RV32x Series Router:

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

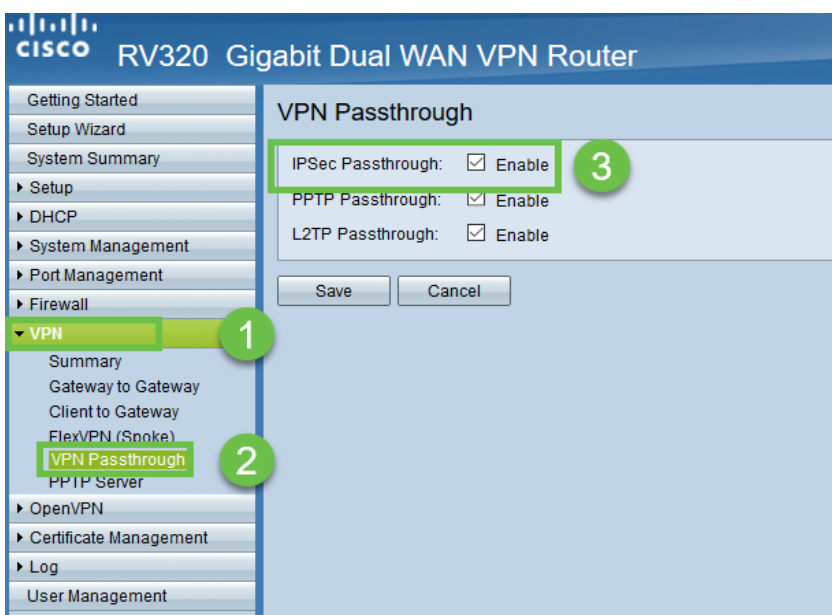
Step 1

Log in to the router using valid credentials.



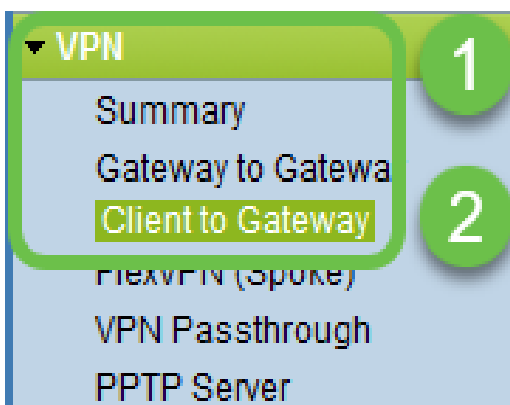
Step 2

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



Step 3

Navigate to **VPN > Client to Gateway**.



Step 4

Select the **Easy VPN Option**.

Client to Gateway

Add a New Easy VPN

☐ Tunnel ☐ Group VPN ☒ Easy VPN

Step 5

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

☐ Tunnel ☐ 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

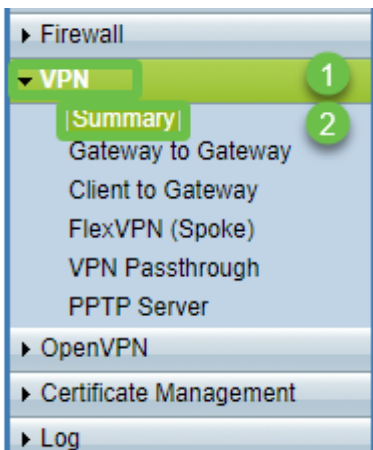
Edit

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

	Type	Group Name	Tunnels	Phase2 Enc/Auth/Grp	Local Group	Remote Client	Details	Action	
☐	Easy VPN	CiscoVPN	0	AES/MD5	192.168.1.0 255.255.255.0	CiscoVPN		N/A	
AddEditDelete									

Step 8

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

Step 9

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

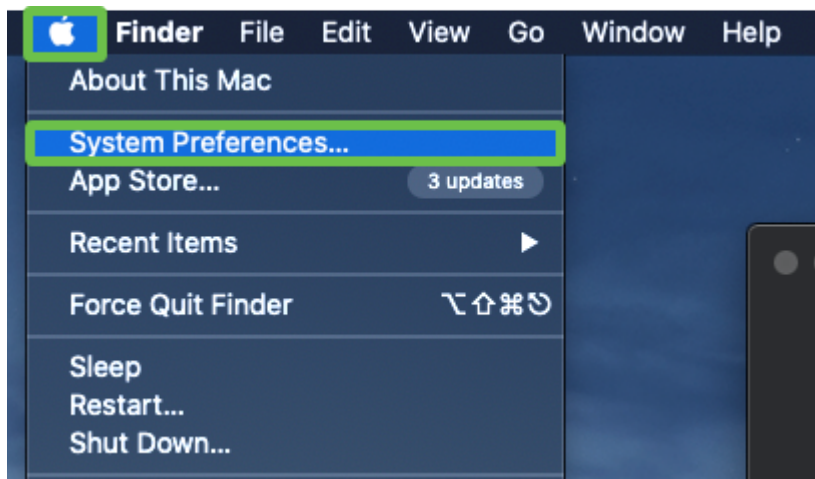
User Management Table			
Username	Password	Group	Domain
cisco	*****	Administrator	Default
User	*****	All Users	Default

Configure MAC Built in Client

We will now configure the MAC Built in Client.

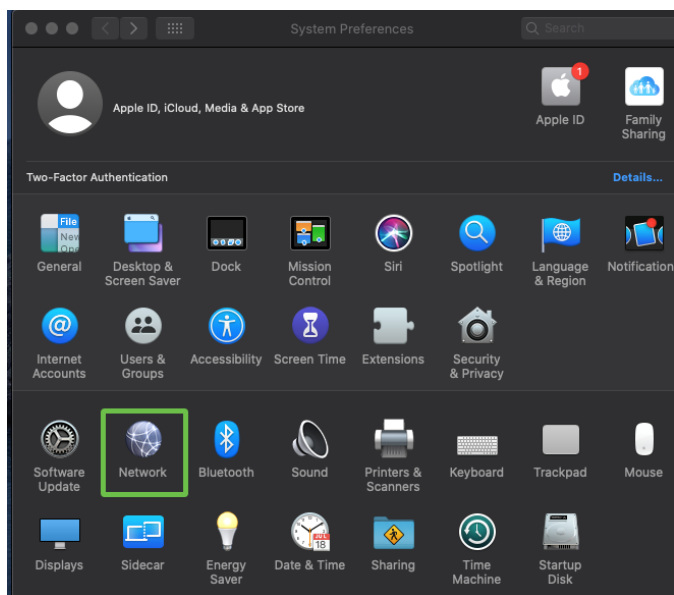
Step 1

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



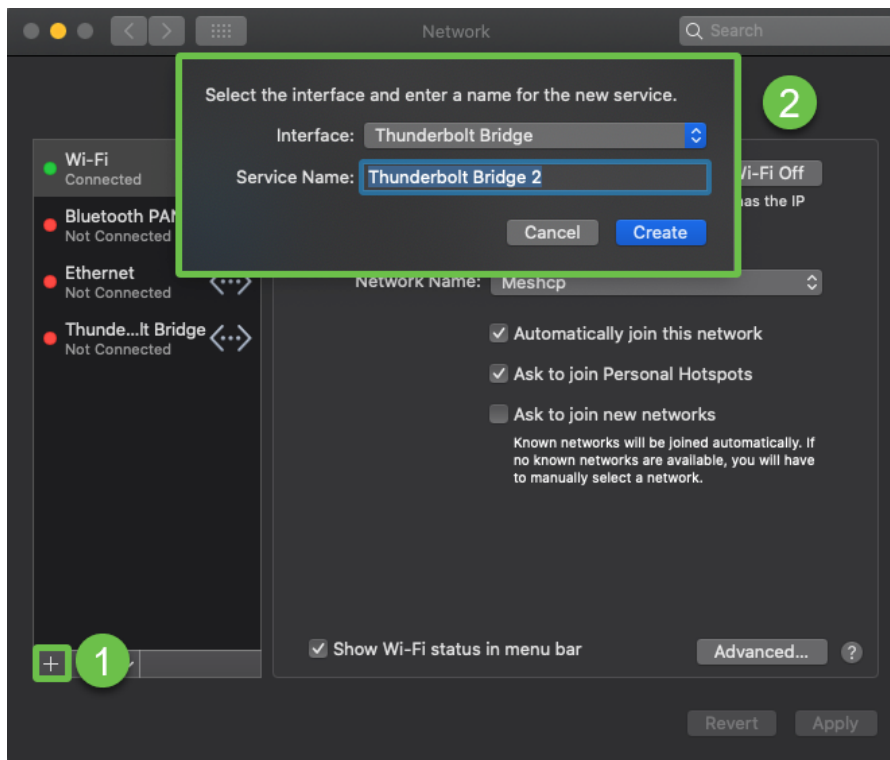
Step 2

Navigate to **Network**



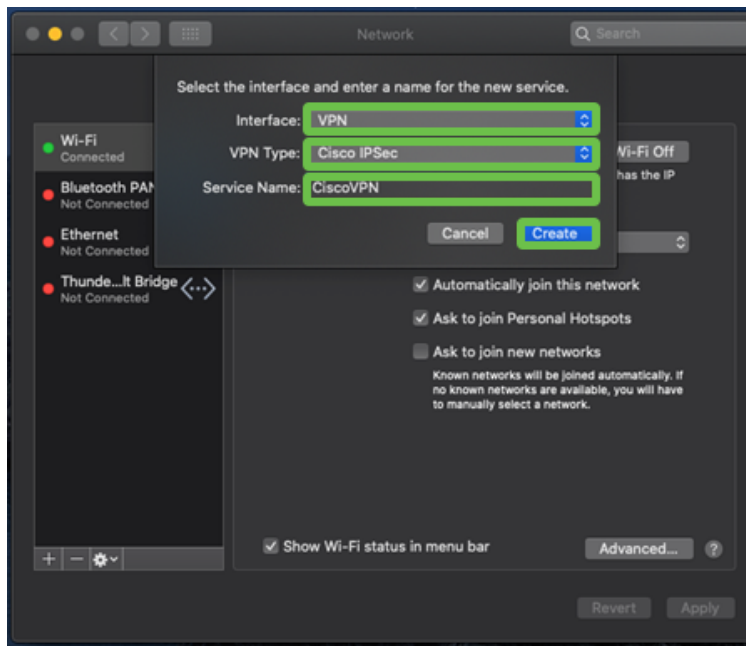
Step 3

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



Step 4

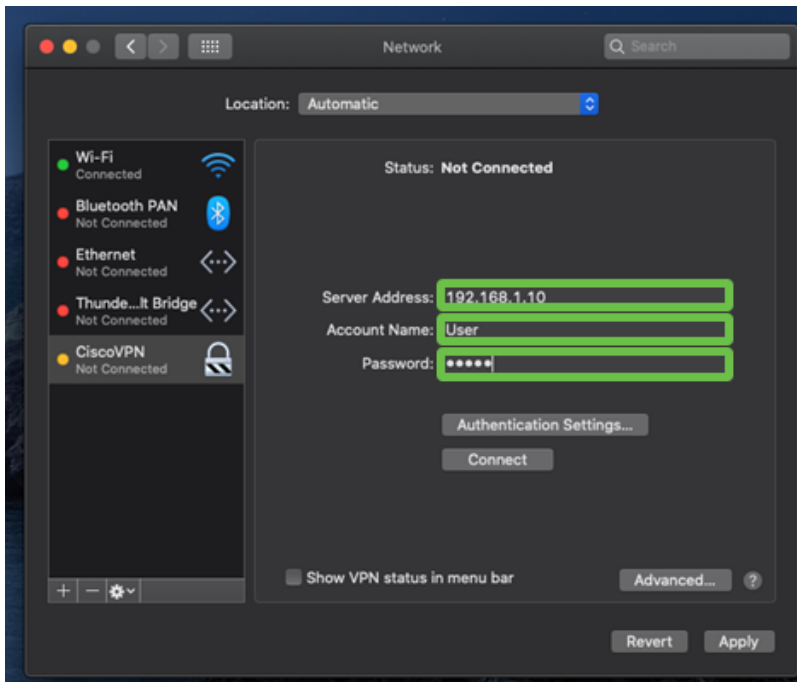
Select *Interface* as **VPN**, *VPN Type* as **Cisco IPSec**, and enter the *Service Name* to match the Tunnel name that was configured in your router. Click **Create**.



Step 5

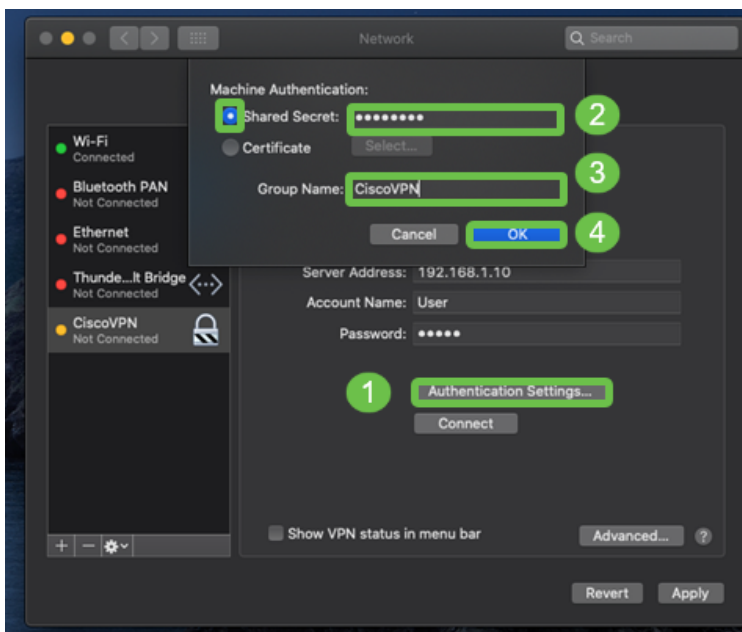
Navigate to the VPN, enter *Server Address*, *Account Name* and *Password*.

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



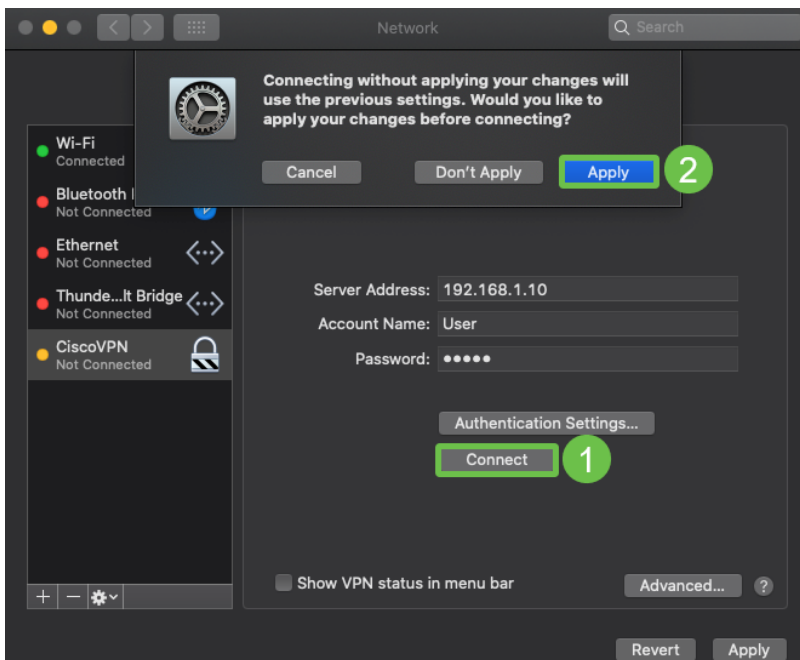
Step 6

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**.



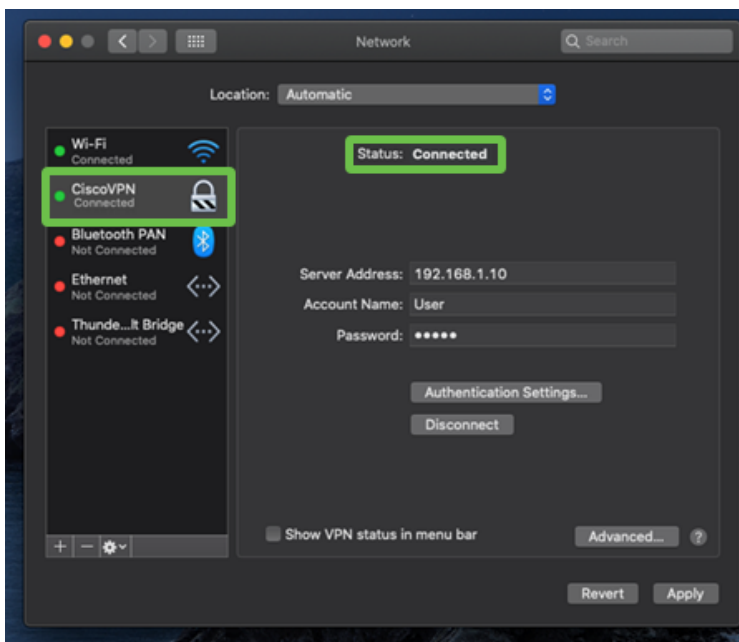
Step 7

Press **Connect**, a warning will appear, press **Apply**.



Step 8

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.