Configure a Point-to-Point Tunneling Protocol (PPTP) Server on the Rv34x Series Router

Objective

The Point-to-Point Tunneling Protocol (PPTP) is a network protocol used to implement Virtual Private Network (VPN) tunnels between public networks. PPTP servers are also known as Virtual Private Dialup Network (VPDN) servers. PPTP uses a control channel over Transmission Control Protocol (TCP) and a Generic Routing Encapsulation (GRE) tunnel operating to encapsulate Point-to-Point (PPP) packets. The most common PPTP implementation is with the Microsoft Windows product families and implements different levels of authentication and encryption natively as standard features of the Windows PPTP stack. PPTP is preferred over other protocols because it is faster and has the ability to work on mobile devices.

This article aims to show you how to configure a PPTP server on the RV34x Series Router.

Applicable Devices

• RV34x Series

Software Version

• 1.0.01.16

Configure PPTP

Step 1. Log in to the web-based utility of the router and choose **VPN > PPTP Server**.

Step 2. Click the **On** PPTP Server radio button to enable the PPTP Server.

Step 3. In the *Start IP Address* field, enter the starting IP address of the IP address range to be assigned to users. These are reserved IP addresses for PPTP users.

Note: For this example, 10.0.0.1 is used.

PPTP Server

PPTP Server:	⦿ On ○ Off
Address Pool:	
Start IP Address:	10.0.0.1
End IP Address:	
DNS1 IP Address:	
DNS2 IP Address:	
User Authentication:	☐ Group Name ☐ admin [Add] [Delete]
MPPE Encryption:	None ⇕

[Apply]   [Cancel]

Step 4. In the *End IP Address* field, enter the ending IP address of the IP address range.

Note: For this example, 10.0.0.14 is used.

PPTP Server

PPTP Server:	⦿ On ○ Off
Address Pool:	
Start IP Address:	10.0.0.1
End IP Address:	10.0.0.14
DNS1 IP Address:	
DNS2 IP Address:	
User Authentication:	☐ Group Name
	☐ admin
	Add Delete
MPPE Encryption:	None ⇕

Apply   Cancel

Step 5. In the *DNS1 IP Address* field, enter the IP address of the DNS server.

Note: For this example, 192.168.1.150 is used.

PPTP Server

PPTP Server:	⦿ On ○ Off
Address Pool:	
Start IP Address:	10.0.0.1
End IP Address:	10.0.0.14
DNS1 IP Address:	192.168.1.150
DNS2 IP Address:	
User Authentication:	☐ Group Name ☐ admin Add Delete
MPPE Encryption:	None ⬍

Apply   Cancel

Step 6. (Optional) In the *DNS2 IP Address* field, enter the IP address of the second DNS server.

Note: For this example, 192.168.1.151 is used.

PPTP Server

PPTP Server:	◉ On ○ Off
Address Pool:	
Start IP Address:	10.0.0.1
End IP Address:	10.0.0.14
DNS1 IP Address:	192.168.1.150
DNS2 IP Address:	**192.168.1.151**

User Authentication:

☐	Group Name
☐	admin

[Add] [Delete]

MPPE Encryption: None ⬍

[Apply] [Cancel]

Step 7. In the User Authentication area, choose a profile which the users will be authenticated. The options are admin or guest.

Step 8. From MPPE Encryption drop-down list, choose an option to encrypt point-to-point links. The options are:

- None — No encryption.
- 128 bits — 128-bit key Microsoft Point-to-Point Encryption (MPPE) encryption keys are supported.

Note: Microsoft Point-to-Point Encryption (MPPE) not only encrypts PPP packets but also uses a compression algorithm to optimize bandwidth utilization in order to support multiple simultaneous connections. This option can only be enabled or disabled if you enable the PPTP Server.

Step 9. Click **Apply**.

PPTP Server

PPTP Server:	⦿ On ◯ Off
Address Pool:	
Start IP Address:	10.0.0.1
End IP Address:	10.0.0.14
DNS1 IP Address:	192.168.1.150
DNS2 IP Address:	192.168.1.151
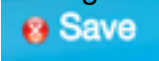
User Authentication:	☐ Group Name
	☐ admin
	Add Delete

MPPE Encryption:	128 bits ⇕

Apply   Cancel

Step 10. (Optional) To save the configuration permanently, go to the Copy/Save Configuration page or click the ⊗ Save icon at the upper portion of the page.

You should now have successfully configured the PPTP settings on the RV34x Series Router.