Configure Point to Point Tunneling Protocol (PPTP) Server on RV320 and RV325 VPN Router Series on Windows

Objective

The Point to Point Tunneling Protocol (PPTP) is a network protocol used to create VPN tunnels between public networks. PPTP servers are also known as Virtual Private Dialup Network (VPDN) servers. PPTP is preferred over other VPN protocols because it is faster and it has the ability to work on mobile devices. A total of ten PPTP tunnels can be configured on the PPTP Server.

This article explains how to configure a PPTP (Point-to-Point Tunneling Protocol) server on Windows for the RV32x VPN Router Series.

Applicable Devices

- RV320 Dual WAN VPN Router
- RV325 Gigabit Dual WAN VPN Router

Software Version

• v1.1.0.09

Configure PPTP Server

PPTP IP Range

Step 1. Log in to the web configuration utility and choose **VPN** > **PPTP Server**. The *PPTP Server* page opens:

PPTP Serv	er						
PPTP IP Range	e						
Enable							
Range Start:	192.168.1.150						
Range End:	192.168.1.159						
PPTP Tunnel S	Status nel(s) Used	10 Tunnel(s) Available					
Connection	Table						
User Name		Remote Address	PPTP IP Address				
0 results found!							
Save	Cancel						

Step 2. Check the **Enable** check box to enable the PPTP Server on the RV320.

PPTP Serv	er					
PPTP IP Rang	e					
Enable						
Range Start:	192.168.1.150					
Range End:	192.168.1.158					
PPTP Tunnel	Status					
0 Tuni	nel(s) Used	10 Tunn	el(s) Available			
Connection	Table					
User Name		Remote Address		PPTP IP Address		
0 results found!						
Save	Cancel					

Step 3. Enter the starting LAN IP address of the range assigned to the first PPTP VPN client in the

Range Start field. The default IP is 192.168.1.200.

Step 4. Enter the last LAN IP address of the range assigned to the last PPTP VPN client in the *Range End* field. The default is 192.168.1.204.

Step 5. Click **Save** to save the settings.

PPTP Tunnel Status

PPTP Serv	er		
PPTP IP Range	9		
Enable			
Range Start:	192.168.1.150		
Range End:	192.168.1.158		
PPTP Tunnel S	i tatus nel(s) Used	9 Tunnel(s) Available	
Connection 1	lable .		
User Name		Remote Address	PPTP IP Address
user_3		192.168.1.100	192.168.1.150
Save	Cancel		

• Tunnel(s) Used — Represents the number of tunnels that are currently in use by the PPTP Server.

• Tunnel(s) Available — Represents the number of tunnels that are still available to configure the PPTP Server.

Note: You need to add users before you can setup a connection in the connection table. For more information on how to configure users, refer to to the article <u>User and Domain Management</u> <u>Configuration on RV320 and RV325 VPN Router Series</u>.</u>

PPTP Serve	er			
PPTP IP Range)			
Enable				
Range Start:	192.168.1.150			
Range End:	192.168.1.158			
PPTP Tunnel S	i tatus iel(s) Used	9	Tunnel(s) Available	
Connection T	able			
User Name		Remote A	ddress	PPTP IP Address
user_3		192.168.1	.100	192.168.1.150
Save	Cancel			

• Connection Table — The Connection List is a read-only list that shows information of VPN clients. The list shows the Username of the PPTP VPN client, Remote WAN IP address of the PPTP VPN client and the PPTP IP Address that the PPTP server assigns to the client upon connection. You need to configure PPTP VPN connection on Windows to display the user in the Connection Table.

Note: To learn more on how to setup the PPTP connection, refer to the *Configure PPTP VPN Connection on Windows* section.

Configure PPTP VPN Connection on Windows

Step 1. Log into the computer and choose **Start > Control Panel > Network and Internet > Network and Sharing Center**. The *Network and Sharing Center* window appears.

Image: See full not set up connections Image: See full not set up connection or network See full not set up a new connection or network See full not set up a new connection or network See full not set up a new connection or network See full not set up a new connection or network See full not set up a new connection or network See full not set up a new connection or network See full not set up a new connection or network See full not set up a new connection or network See full not set up a new connection or network See full not set up a new connection or network See full not set up a new connection or network See full not set up a new connection or network Set up a network Connect to a network Connect to a network Connect or r	Viewv	our basic network informatio	on and set up	connections
See full n Internet	view yo	our basic network informatio	on and set up t	connections
Internet (This computer) View your active networks Connect or discommand the connection of the connections Image: Set up a new connection or network Connect to a network Connect to a network Connect to a network Connect or reconnect to a wireless, wired, dial-up, or VPN network connect or reconnect to a wireless, wired, dial-up, or VPN network		🧶 —— 🦫 -	🥥	See full map
(This computer) View your active networks Connect or disconn Image: Work network Access type: Internet Connections: Image: Wireless Network Connection Change your networking settings Set up a new connection or network Set up a new connection or network Set up a vireless, broadband, dial-up, ad hoc, or VPN connection; or set up router or access point. Connect to a network Connect to a network Connect to a wireless, wired, dial-up, or VPN network			Inter	net
View your active networks Connect or disconn Image: Work network Access type: Internet Connections: Image: Wireless Network Connection Change your networking settings Set up a new connection or network Secure) Change your networking settings Set up a new connection or network Set up a wireless, broadband, dial-up, ad hoc, or VPN connection; or set up router or access point. Image: Connect to a network Connect to a network Connect to a wireless, wired, dial-up, or VPN network	(This	computer)		600
Image: Work network Access type: Internet Connections: Image: Wireless Network Connection Change your networking settings Set up a new connection or network Secure) Set up a new connection or network Set up a wireless, broadband, dial-up, ad hoc, or VPN connection; or set up router or access point. Image: Connect to a network Connect to a network Connect or reconnect to a wireless, wired, dial-up, or VPN network	View your	r active networks		- Connect or disconnect
Work network Connections: Wireless Network Connection Secure) Change your networking settings Image: Set up a new connection or network Set up a wireless, broadband, dial-up, ad hoc, or VPN connection; or set up router or access point. Image: Set up a new connect to a wireless, wired, dial-up, or VPN network Connect to a network Connect to a wireless, wired, dial-up, or VPN network Connect or reconnect to a wireless, wired, dial-up, or VPN network	-		Access type:	Internet
Change your networking settings Set up a new connection or network Set up a wireless, broadband, dial-up, ad hoc, or VPN connection; or set up router or access point. Image: Connect to a network Connect to a network Connect to a network Connect to a wireless, wired, dial-up, or VPN network		Work network	Connections: 🔐	Wireless Network Connection Secure)
 Set up a new connection or network Set up a wireless, broadband, dial-up, ad hoc, or VPN connection; or set up router or access point. Connect to a network Connect or reconnect to a wireless, wired, dial-up, or VPN network 	Change y	our networking settings		
 Set up a wireless, broadband, dial-up, ad hoc, or VPN connection; or set up router or access point. Connect to a network Connect or reconnect to a wireless, wired, dial-up, or VPN network connection 	4	Set up a new connection or network	c	
Connect to a network Connect or reconnect to a wireless, wired, dial-up, or VPN network		Set up a wireless, broadband, dial-u router or access point.	p, ad hoc, or VPN o	connection; or set up a
Connect or reconnect to a wireless, wired, dial-up, or VPN network	-	Connect to a network		
connection.	4	Connect or reconnect to a wireless, connection.	wired, dial-up, or \	/PN network
Choose homegroup and sharing options		Choose homegroup and sharing op	tions	
Access files and printers located on other network computers, or change sharing settings.		Access files and printers located on sharing settings.	other network con	nputers, or change
Troubleshoot problems		Troubleshoot problems		
Diagnose and repair network problems, or get troubleshooting information		Diagnose and repair network proble	ms, or get troubles	shooting information.



Step 2. Click **Set up a new connection or network** to create a new connection or network. The *Set Up a Connection or Network* window appears.





Step 3. Click **Connect to a workplace** to connect from the work place.

Step 4. Click **Next** to continue. The *Connect to a Workplace* window appears:





Step 5. Click Use my Internet connection (VPN) to use your Internet connection.



Step 6. Click **I'll set up an Internet connection later** to configure the Internet connection later.

📀 🌆 Connect to a Wo	rkplace	
Type the Internet a	ddress to connect to	
Your network administra	tor can give you this address.	
Internet address:	192.168.1.1	
Destination name:	VPN Connection 2	
Use a smart card	redentials	
🛞 🗌 Allow other peop	ole to use this connection	
This option allov	is anyone with access to this computer to use this conne	ction.
		Create Cancel

Step 7. Enter the IP address of the LAN IP address of the RV320 into the Internet address field.

Step 8. Enter a name for the destination in the Destination name field.

Step 9. Click Create.

Note: If you are on Windows 8, the next procedure applies. If you are on Windows 7, the next three images are different, but the procedure is the same.



Step 10. Click the Network icon on the task bar. This displays all the networks, wireless, VPN, and Dial-up, available to be connected to the computer:



Step 11. Click Connect to connect the specific connection.



Note: You have to configure the user in the *User Management* page. To know more on how to configure user management, refer to the article *User and Domain Management Configuration on RV320 Router*. For the Step 12 and Step 13, you have to provide same user name and password you provided in the *User Management page*.

Step 12. Enter the user name in the Username field.

Step 13. Enter the password in the *Password* field.

Step 14. Click OK.



Step 15. Right click on the network icon on the task bar and click **Open Network and Sharing Center**.

Ł		Network and Sharing Center			
€ ∋ ▼ ↑ 🛂 ► Control	Panel Network and Internet Network and Sharing Center				
Control Panel Home	View your basic network information and set up connections				
Change adapter settings	View your active networks -				
Change advanced sharing settings	Public network	Access type: No Connections: all Wi-	Internet access -Fi (WSU Secure)		
	Network 6 Public network	Access type: No Connections: 彈 Eth	Internet access lernet		
	VPN Connection 2 Public network	Access type: No Connections: VP	Internet access N Connection 2		
	Change your networking set	ttings			
	Set up a new conr Set up a broadbar	nection or network nd, dial-up, or VPN connection; or set up a router or a	access point.		
	Troubleshoot pro	blems			
See also	Diagnose and rep	air network problems, or get troubleshooting inform	ation.		
HomeGroup					
Internet Options					
Windows Firewall					

Step 16. Click on the specific VPN connection. The Status window appears:

VF	PN Connectio	n 2 Status	
General Details			
Connection			
IPv4 Connectivi	ty:	No Internet acce	ss
IPv6 Connectivi	ty:	No network acce	SS
Media State:		Connect	ed
Duration:		00:01:	30
	Sent —	Receive	ed
Bytes:	36,339	3,9	63
Compression:	0 %	0	%
Errors:	0		0
Properties	Disconnect	Diagnose	
		Cl	ose

IPv4 Connectivi	ty.	No Internet access
IPv6 Connectivi	ty.	No network access
Media State:	cy.	Connected
Duration:		00:01:30
cuvity	Sent —	Received
Bytes:	Sent —	Received
Bytes: Compression:	Sent — 36,339	Received 3,963 0 %
Bytes: Compression: Errors:	Sent — 36,339 0 % 0	Received 3,963 0 % 0

Step 17. Click **Properties**. The VPN Destination Properties window appears:

VPN Connection 2 Properties	×
General Options Security Networking Sharing	
Host name or IP address of destination (such as microsoft.com or 157.54.0.1 or 3ffe:1234::1111):	
192.168. <mark>1</mark> .1	
First connect	
Windows can first connect to a public network, such as the Internet, before trying to establish this virtual connection.	
Dial another connection first:	
×	
privacy statement	
OK Cancel	

Step 18. Choose the **Security** tab at the top of the window.

General	Options	Security	Networking	Sharing	
Type of	FVPN:	8.517.000178.0		9	
Autom	atic				v
Autom	atic				
Point to Layer 2 Secure IKEv2	o Point Tu 2 Tunnelin e Socket T	nneling Pro g Protocol Tunneling P	tocol (PPTP) with IPsec (L2 rotocol (SSTP	(TP/IPsec)))
Authe	entication				
OUs	se Extensib	le Authenti	ication Protoc	ol (EAP)	
					~
					Properties
All E/ ar	ow these p AP-MSCH/ ny of these Unencryp Challenge Microsoft	protocols APv2 will be protocols f ted passwo Handshak CHAP Vers natically use	e used for IKE or other VPN t ord (PAP) ce Authenticat sion 2 (MS-CH e my Windows	v2 VPN typ types. ion Protoc AP v2) logon nar	pe. Select
•	0.3000	vord (and d	omain, if any)		

Step 19. Choose Point to Point Tunneling Protocol (PPTP) from the Type of VPN drop-down list.

Step 20. Click **OK** to save the settings. The new connection adds in the Connection Lists of the *PPTP Server* page.

PPTP Serve	er			
PPTP IP Range)			
Enable				
Range Start:	192.168.1.150			
Range End:	192.168.1.158			
PPTP Tunnel S	t atus el(s) Used	9	Tunnel(s) Available	
Connection T	able			
User Name		Remote A	ddress	PPTP IP Address
user_3		192.168.1	.100	192.168.1.150
Save	Cancel			