Setup a PPTP VPN Connection on a Windows PC with RV016, RV042, RV042G and RV082 VPN Routers

Objective

A Virtual Private Network (VPN) establishes a private network that can send data securely through the Internet. For this, a tunnel can be made between two computers or networks that use encryption and authentication techniques. It can be either Site to Site (VPN router at one office connects to a VPN router at a remotely located office) or Remote Access (computer with VPN client software connects to a VPN router). The Point-to-Point Tunneling Protocol (PPTP) is a method for implementing virtual private networks. PPTP uses a control channel over Transmission Control Protocol (TCP) and a Generic Routing Encapsulation (GRE) tunnel operating to encapsulate Point-to-Point Protocol (PPP) packet. This protocol is used to provide security levels and remote access levels comparable with typical VPN products.

This article explains how to set up a PPTP VPN connection on any computer that uses a Windows OS.

Applicable Devices

- RV016
- RV042
- RV042G
- RV082

Software version

• v4.2.1.02

Setup a PPTP VPN Connection

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

PPTP Server		
Enable PPTP Server		
IP Address Range		
Range Start :	192.168.1.206	
Range End :	192.168.1.210	
PPTP Server		
Username :		
New Password :		
Confirm New Password :		
		Add to list
		Delete Add New
Connection List		
Username	Remote Address	PPTP IP Address
Refresh Save	Cancel	

Step 2. Check the Enable PPTP Server check box to allow PPTP VPN tunnel.

PPTP Server		
S Enable PPTP Server		
IP Address Range		
Range Start :	192.168.1.206	
Range End :	192.168.1.210	
PPTP Server		
Username :]
New Password :]
Confirm New Password :]
		Add to list
		Delete Add New
Connection List		
Username	Remote Address	PPTP IP Address
Refresh Save	Cancel	

Step 3. In the Range Start field, enter the start range of LAN addresses to assign to the PPTP VPN clients. The default value is 192.168.1.200.

PPTP Server		
S Enable PPTP Server		
IP Address Range		
Range Start :	192.168.1.206	
Range End :	192.168.1.210	
PPTP Server		
Username :		
New Password :		
Confirm New Password :		
		Add to list
		Delete Add New
Connection List		
Username	Remote Address	PPTP IP Address
Refresh Save	Cancel	

Step 4. In the Range End field, enter the end range of LAN addresses to assign to the PPTP VPN clients. The default value is 192.168.1.204.

PPTP Server	
Enable PPTP Server	
IP Address Range	
Range Start :	192.168.1.206
Range End :	192.168.1.210
PPTP Server	
Username :	user1
New Password :	•••••
Confirm New Password :	•••••
	Add to list
	Delete Add New

Step 5. In the Username field, enter a name for the PPTP VPN user.

Step 6. In the New Password field, enter the password for the currently configured user.

Step 7. In the Confirm New Password field, re-enter the password for the currently configured user.

PPTP Server	
Enable PPTP Server	
IP Address Range	
Range Start :	192.168.1.206
Range End :	192.168.1.210
PPTP Server	
Username :	user1
New Password :	
Confirm New Password :	•••••
·	Add to list
	Delete Add New

Step 8. Click Add to list to add the currently configured user to the PPTP VPN user list.

PPTP Server		
Enable PPTP Server		
IP Address Range		
Range Start :	192.168.1.206	
Range End :	192.168.1.210	
PPTP Server		
Username :		
New Password :		
Confirm New Password :		
		Add to list
user1		
		Delete Add New
Connection List		
Username	Remote Address	PPTP IP Address
Refresh Save	Cancel	

Step 9. Click **Save** to save your settings.

Step 10. (Optional) To add a new user to your PPTP server, click **Add New** and repeat Steps 5 to 7.

PPTP Server		
Enable PPTP Server		
IP Address Range		
Range Start :	192.168.1.206	
Range End :	192.168.1.210]
PPTP Server		
Username :	user1	
New Password :		
Confirm New Password :		
		Update
user1		
		Delete Add New

Step 11. (Optional) To delete a user, choose the user and click **Delete**.

Step 12. On your Windows PC, choose **Control Panel > Network and Sharing Center**.

			x
🔾 🗸 🐺 « All Control Panel I	Items Network and Sharing Center	✓ 49 Search Control Panel	P
Control Panel Home	View your basic network informati	ion and set up connections	
Manage wireless networks Change adapter settings	Multiala e	See full map	e.
Change advanced sharing settings	(This computer)	Connect on discount of	
	Home network	Access type: Internet HomeGroup: Ready to create Connections: Il Wireless Network Connection (wushock)	
	Network 15 Public network	Access type: No Internet access Connections: 🏺 Local Area Connection	1
See also Akamai NetSession Interface Control Panel (32-bit)	Change your networking settings	k	
HomeGroup	Set up a wireless, broadband, dial-u access point.	up, ad hoc, or VPN connection; or set up a router or	
Intel® PROSet/Wireless Tools Internet Options	Connect to a network Connect or reconnect to a wireless,	, wired, dial-up, or VPN network connection.	
Lenovo - Internet Connection Windows Firewall	Choose homegroup and sharing op Access files and printers located on	ptions n other network computers, or change sharing settings.	

Step 13. Click Set up a new connection or network to set up the VPN connection.

Choose a connection option	
Connect to the Internet Set up a wireless, broadband, or dial-up connection t Set up a new network Configure a new router or access point. Manually connect to a wireless network Connect to a hidden network or create a new wireles	o the Internet. s profile.
Connect to a workplace Set up a dial-up or VPN connection to your workplac	:e.
Set up a dial-up connection	

Step 14. Choose **Connect to a workplace** from the Choose a Connection Option list.

Step 15. Click **Next** to continue.



Step 16. Click No, create a new connection.

Step 17. Click Next to continue.

Connect to a Workplace		23
How do you want to connect?		
Use my Internet connection (VPN) Connect using a virtual private network (VPN) connection through the Internet.		
<u>i</u> — <u>()</u> — <u></u>		
Dial directly Connect directly to a phone number without going through the Internet.		
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What is a VPN connection?		
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Step 18. Click **Use my Internet connection (VPN)** from the How do you want to connect option list.

			23
🚱 🌆 Connect to a Workpla	ce		
Type the Internet ad	ddress to connect to		
Your network administra	tor can give you this address.		
Internet address:	192.168.1.1		
D <u>e</u> stination name:	VPN Connection 2	,	
Use a <u>s</u> mart card			
😵 🔲 <u>A</u> llow other peop This option allow	le to use this connection s anyone with access to this computer to use this connection.		
Don't connect no	w; just set it up so I can connect later		
	Next	Can	cel

Step 19. In the Internet address field, enter the host name or public IP address of the VPN router.

Step 20. Click **Next** to continue.

🚱 🔚 Connect to a Workpla	ice	
Type your user nan	ne and password	
<u>U</u> ser name:	user1	
Password:	•••••	
	Show characters Remember this password	
Domain (optional):	192.168.1.1	
		Connect Cancel

Step 21. In the User name field, enter the username that you have configured in the router.

Step 22. In the Password field, enter the password that you have configured in the router.

Step 23. Click **Connect** to establish VPN connection. A status is displayed confirming the VPN connection.