Configure Dynamic Routing Information Protocol (RIP) on an RV132W and RV134W Router

Objective

Routing Information Protocol (RIP) is an Interior Gateway Protocol (IGP) that is commonly used in internal networks. It prevents routing loops by limiting the number of hops allowed on a path from source to destination. RIP allows a hop count of 15, before considering the destination unreachable. By default, RIP sends updates every 30 seconds. Being one of the oldest routing protocols, RIP is typically used in networks that use legacy devices.

This article aims to show you how to configure RIP on an RV132W or RV134W Router.

Applicable Devices

- RV132W
- RV134W

Software Version

- 1.0.0.17 RV132W
- 1.0.0.21 RV134W

Configure RIP

Step 1. Log in to the web-based utility and click **Networking > Routing > RIP**.

Getting Started
Run Setup Wizard
Status and Statistics
* Networking
▶ WAN
▶ LAN
Basic Routing
RIP
Routing Table
Dynamic DNS
IP Mode
▶ IPv6
Wireless
Firewall
▶ VPN
▶ QoS
Administration

Step 2. In the RIP Basic Settings area, click **On** for RIP Status.

Dynamic RIP						
RIP Basic S	ettings					
RIP Status:	RIP Status: On Off					
RIP Version	RIPv1 RIPv2 Default (re	eceive RIPv1/v2, sen	d RIPv1)			
RIP Membe	rs					
Index	Interface	Enable RIP	Authentication	Passive Interface		
1	VLAN1		Edit None	 Image: A start of the start of		
2	VLAN10		Edit None			
3	VLAN20		Edit None	۲		
4	VLAN30		Edit None	۲		
5	DSL_ATM_WAN_0_33_R		Edit None	st.		
6	ETH_WAN_R		Edit None	se a constante de la constante		
Save Cancel						

Step 3. Choose the RIP Version by choosing the appropriate radio button.

The options are:

- RIPv1 a classful routing protocol that does not support Variable Length Subnet Masking (VLSM). RIPv1 uses a broadcast address to send advertisements.
- RIPv2 a classless routing protocol that supports VLSM. RIPv2 uses 224.0.0.9 for periodic multicasts.
- Default (receive RIPv1/v2, send RIPv1) receives RIPv1 and v2 updates but sends out

RIPv1 updates only.

Note: In this example, RIP Version is left at its Default (receive RIPv1/v2, send RIPv1) setting.

Dynamic RIP						
RIP Basic Se	RIP Basic Settings					
RIP Status:	● On ○ Off					
RIP Version:	RIP Version: RIPv1 RIPv2 Default (receive RIPv1/v2, send RIPv1)					
RIP Member	s					
Index	Interface	Enable RIP	Authentication	Passive Interface		
1	VLAN1	V	Edit None	 Image: A start of the start of		
2	VLAN10		Edit None			
3	VLAN20		Edit None			
4	VLAN30		Edit None			
5	DSL_ATM_WAN_0_33_R		Edit None	✓		
6	ETH_WAN_R		Edit None	×.		
Save Cancel						

Step 4. (Optional) In the RIP Members area, check the check box under Enable RIP on any of the available interfaces.

Note: In this example, RIP is enabled only on VLAN1.

Dynamic RIP						
RIP Basic Se	RIP Basic Settings					
RIP Status:	RIP Status: On Off					
RIP Version:	RIP Version: RIPv1 RIPv2 Default (receive RIPv1/v2, send RIPv1)					
RIP Members	3					
Index	Interface	Enable RIP	Authentication	Passive Interface		
1	VLAN1		Edit None	 Image: A start of the start of		
2	VLAN10		Edit None			
3	VLAN20		Edit None			
4	VLAN30		Edit None			
5	DSL_ATM_WAN_0_33_R		Edit None	A.		
6	ETH_WAN_R		Edit None	×		
Save Cancel						

Step 5. (Optional) Under Authentication, click **Edit** to implement RIP authentication settings for an interface.

Dynamic RIP						
RIP Basic Se	ttings					
RIP Status:	🖲 On 💿 Off					
RIP Version:	RIP Version: RIPv1 RIPv2 Default (receive RIPv1/v2, send RIPv1)					
RIP Members	1					
Index	Interface	Enable RIP	Authentication	Passive Interface		
1	VLAN1		Edit Jone	 Image: A set of the set of the		
2	VLAN10		Edit None			
3	VLAN20		Edit None			
4	VLAN30		Edit None	•		
5	DSL_ATM_WAN_0_33_R		Edit None	al		
6	ETH_WAN_R		Edit None	×.		
Save Cancel						

Step 6. Choose the Authentication type by clicking the corresponding radio button and then enter the password.

The options are:

- None Choose this option to disable authentication.
- Simple Password Authentication choose this option to implement simple password authentication. You need to enter the password in the password field. A password of 1 to 16 characters can be used with this setting.
- MD5 Authentication choose this option to use the MD5 authentication method.
- MD5 Key ID Enter a value from 1 to 255. The default value is 1.
- MD5 Auth Key Enter the MD5 authentication key. This can be 1 to 64 characters in length.

Note: In this example, Simple Password Authentication is chosen.

RIP Au	thentication Settings		
Authent	ication: Onone Imple Password Authentication MD5 Authentication	n Cisco123\$ (I	Length: 1 to 16 characters)
	MD5 Key ID	(Range: 1 - 255, Defau	lt: 1)
	MD5 Auth Key	(Length: 1 to 64 char	racters)
Save	Cancel		

Step 7. Click Save.

	RIP Authentication Settings					
	Authentication:	 None Simple Password Authentication Cisco123\$ (Length: 1 to 16 characters) MD5 Authentication MD5 Key ID (Range: 1 - 255, Default: 1) MD5 Auth Key (Length: 1 to 64 characters) 				
(Save	Cancel				

Step 8. (Optional) Under Passive Interface, check the check box that corresponds to the appropriate interface. This stops incoming and outgoing updates.

Dynamic RIP						
RIP Basic Se	RIP Basic Settings					
RIP Status:	🖲 On 🕓 Off					
RIP Version:	RIP Version: RIPv1 RIPv2 Default (receive RIPv1/v2, send RIPv1)					
RIP Members	3					
Index	Interface	Enable RIP	Authentication	Passive Interface		
1	VLAN1		Edit None			
2	VLAN10		Edit None	<u> </u>		
3	VLAN20		Edit None			
4	VLAN30		Edit None			
5	DSL_ATM_WAN_0_33_R		Edit None	st.		
6	ETH_WAN_R		Edit None	×.		
Save Cancel						

Step 9. Click Save.

Dynamic RIP						
RIP Basic Se	RIP Basic Settings					
RIP Status:	RIP Status: On Off					
RIP Version:	RIP Version: O RIPv1 RIPv2 Default (receive RIPv1/v2, send RIPv1)					
RIP Members	S					
Index	Interface	Enable RIP	Authentication	Passive Interface		
1	VLAN1		Edit None	 Image: A set of the set of the		
2	VLAN10		Edit None			
3	VLAN20		Edit None	۲		
4	VLAN30		Edit None			
5	DSL_ATM_WAN_0_33_R		Edit None	all a		
6	ETH_WAN_R		Edit None	×.		
Save Cancel						

You should now have successfully configured RIP on your RV132W or RV134W Router.