在RV132W和RV134W路由器上配置动态路由信 息协议(RIP)

目标

路由信息协议(RIP)是内部网关协议(IGP),常用于内部网络。它通过限制从源到目的地的路径 上允许的跳数来防止路由环路。RIP允许跳数为15,然后再考虑目的地不可达。默认情况下 ,RIP每30秒发送一次更新。RIP是最早的路由协议之一,通常用于使用传统设备的网络。

本文旨在向您展示如何在RV132W或RV134W路由器上配置RIP。

适用设备

- RV132W
- RV134W

软件版本

- 1.0.0.17 RV132W
- 1.0.0.21 RV134W



步骤1.登录基于Web的实用程序,然后单击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

步骤2.在"RIP基本设置"区域,单击"打开**"以查**看RIP状态。

Dynamic RIP						
RIP Basic Se	ettings					
RIP Status:	● On Off					
RIP Version:	RIPv1 RIPv2 Default (re	eceive RIPv1/v2, sen	d RIPv1)			
RIP Member	RIP Members					
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	d.		
6	ETH_WAN_R		Edit None	al and a second		
Save Cancel						

步骤3.通过选择适当的单选按钮选择RIP版本。

选项有:

- RIPv1 一种不支持可变长子网掩码(VLSM)的有类路由协议。RIPv1使用广播地址发送通告。
- RIPv2 支持VLSM的无类路由协议。RIPv2使用224.0.0.9进行定期组播。
- •默认(接收RIPv1/v2,发送RIPv1) 接收RIPv1和v2更新,但仅发送RIPv1更新。

注意:在本例中, RIP Version保留为其Default(接收RIPv1/v2,发送RIPv1)设置。

Dynamic RIP						
RIP Basic S	RIP Basic Settings					
RIP Status:	RIP Status: On Off					
RIP Version:	RIP Version: RIPv1 RIPv2 Default (receive RIPv1/v2, send RIPv1)					
RIP Member	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	1		
4	VLAN30		Edit None	•		
5	DSL_ATM_WAN_0_33_R		Edit None	ď		
6	ETH_WAN_R		Edit None	×.		
Save Cancel						

步骤4.(可选)在RIP Members区域,选中Enable RIP on any of available interfaces(在任 何可用接口上启用RIP)下的复选框。

注意:在本例中,RIP仅在VLAN1上启用。

Dynamic RIP					
RIP Basic Se	ttings				
RIP Status:	RIP Status: On Off				
RIP Version:	RIP Version: ORIPv1 ORIPv2 Opfault (receive RIPv1/v2, send RIPv1)				
RIP Members	i				
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	•	
4	VLAN30		Edit None	•	
5	DSL_ATM_WAN_0_33_R		Edit None	al contraction of the second s	
6	ETH_WAN_R		Edit None	V	
Save Cancel					

步骤5.(可选)在Authentication下,单击Edit为接口实施RIP身份验证设置。

Dynamic RIP					
RIP Basic Set	ttings				
RIP Status:	tatus: On Off 				
RIP Version:	RIP Version: RIPv1 RIPv2 Default (receive RIPv1/v2, send RIPv1)				
RIP Members	i				
Index	Interface	Enable RIP	Authentication	Passive Interface	
1	VLAN1		Edit Ione	 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 contraction of the second s	
6	ETH_WAN_R		Edit None	¥.	
Save Cancel					

步骤6.通过点击相应的单选按钮选择身份验证类型,然后输入密码。

选项有:

- 无 选择此选项以禁用身份验证。
- 简单密码身份验证 选择此选项以实施简单密码身份验证。您需要在密码字段中输入密码。此 设置可使用1到16个字符的密码。
- MD5身份验证 选择此选项以使用MD5身份验证方法。
- MD5密钥ID 输入1到255之间的值。默认值为1。
- MD5身份验证密钥 输入MD5身份验证密钥。长度可以是1到64个字符。

注意:在本例中,选择简单密码身份验证。

RIP Authentication Settings
Authentication: None imple 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

步骤7.单击"**保存"**。

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

第8步。(可选)在被动接口下,选中与相应接口对应的复选框。这将停止传入和传出更新。

Dynamic RIP						
RIP Basic Se	RIP Basic Settings					
RIP Status:	RIP Status: On Off					
RIP Version:	RIP Version: ORIPv1 ORIPv2 Opfault (receive RIPv1/v2, send RIPv1)					
RIP Members	\$					
Index	Interface	Enable RIP	Authentication	Passive Interface		
1	VLAN1		Edit None			
2	VLAN10		Edit None	T		
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						

步骤9.单击"保**存"**。

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	S					
Index	Interface	Enable RIP	Authentication	Passive Interface		
1	VLAN1		Edit None	 Image: A start of the start of		
2	VLAN10		Edit None	۲		
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	st.		
Save Cancel						

现在,您应该已在RV132W或RV134W路由器上成功配置了RIP。