在RV系列路由器上配置虛擬區域網(VLAN)成員身 份

目標

虛擬區域網路(VLAN)是在邏輯上獨立的網際網路通訊協定(IP)子網路,其端點與功能或其他共 用特徵相關聯。這使不同部門可以有單獨的網路,以便其成員可以獨佔訪問資源。

VLAN還通過啟用VLAN間路由允許在VLAN之間共用資源。這等同於安全性,因為只有 VLAN的成員才能存取通過該VLAN的資源。這也意味著節省,因為部署VLAN意味著擁有獨立 的網路,但只需購買一台裝置。預設情況下,RV系列路由器有一個預設VLAN VLAN1,不能 刪除、編輯或更改。根據裝置型號,最多可以建立6個VLAN。VLAN可以標籤、未標籤或排除 到特定埠。

本文旨在展示如何在RV系列路由器上配置VLAN成員身份。

適用裝置

• RV系列 — RV110W、RV130、RV130W、RV132W、RV134W

軟體版本

- 1.2.0.10 RV110W
- 1.0.3.16 RV130、RV130W
- 1.0.0.17 RV132W
- 1.0.0.21 RV134W

配置VLAN成員資格

新增VLAN

步驟 1.登入到路由器的基於Web的實用程式,然後選擇Networking > LAN > VLAN Membership。

注意:本文中的影象來自RV132W路由器。選項和術語可能因裝置型號而異。



步驟 2.按一下Add Row。

١	/LAN Membership									
	Create VLAN: Up to five VLA	s and assign t Ns total can b	he Outgoing Fra e created. VLAN	ame Type. I IDs must be in the range	(2-4094)					
	VLANs Sett	ing Table								
	Select	VLAN ID	Description	Inter VLAN Routing	Port 1	Port 2	Port 3			
		1	Default	Disabled	Untagged	Untagged	Untagged			
		10	Accounting	Disabled	Tagged	Tagged	Tagged			
		20	Sales	Disabled	Tagged	Tagged	Tagged			
		30	Shipping	Disabled	Tagged	Tagged	Tagged			
	Add Row	Edit	Delete	•						
	Save Cancel									

步驟 3.在VLAN ID欄位中輸入VLAN編號。VLAN ID必須在2到4094範圍內。在本例中,40用 作VLAN ID。

V	LAN Membership									
VLANs Setting Table										
	Select	VLAN ID	Description	Inter VLAN Routing	Port 1	Port 2	Port 3			
L		1	Default	Disabled	Untagged	Untagged	Untagged			
L		10	Accounting	Disabled	Tagged	Tagged	Tagged			
		20	Sales	Disabled	Tagged	Tagged	Tagged			
			Shipping	Disabled	Tagged	Tagged	Tagged			
L		40	AfterSales		Tagged 🔻	Tagged 🔻	Tagged •			
	Add Row	Edit	Delete							
L	-									
	Save	Cancel								

步驟 4.在說明欄位中輸入VLAN的說明。在此示例中,輸入了AfterSales。

٧	VLAN Membership									
	Create VLANs and assign the Outgoing Frame Type. Up to five VLANs total can be created. VLAN IDs must be in the range (2 - 4094) You must save before you can edit or delete.									
	VLANs Settin	g Table								
	Select	VLAN ID	Description	Inter VLAN Routing	Port 1	Port 2	Port 3			
		1	Default	Disabled	Untagged	Untagged	Untagged			
		10	Accounting	Disabled	Tagged	Tagged	Tagged			
		20	Sales	Disabled	Tagged	Tagged	Tagged			
		30	Shinning	Disabled	Tagged	Tagged	Tagged			
		40	AfterSales		Tagged 🔻	Tagged 🔻	Tagged 🔹			
l	Add Row Edit									
	Save Cancel									

步驟 5.按一下「Save」。

iate VLANs and assign the Outgoing Frame Type. to five VLANs total can be created. VLAN IDs must be in the range (2 - 4094) i must save before you can edit or delete.									
LANs Setting	Table								
Select	VLAN ID	Description	Inter VLAN Routing	Port 1	Port 2	Port 3			
	1	Default	Disabled	Untagged	Untagged	Untagged			
	10	Accounting	Disabled	Tagged	Tagged	Tagged			
	20	Sales	Disabled	Tagged	Tagged	Tagged			
	30	Shipping	Disabled	Tagged	Tagged	Tagged			
	40	AfterSales		Tagged 🔻	Tagged 🔻	Tagged 🔹			
Add Row	Edit	Delete							

現在,您應該已經成功地將VLAN新增到RV系列路由器。配置設定已成功儲存的確認消息將顯示在「VLAN成員資格」頁面的頂部。

VLAN Mer	VLAN Membership									
Conf	Configuration settings have been saved successfully									
Create VLAN Up to five VL/ You must sa	Create VLANs and assign the Outgoing Frame Type. Up to five VLANs total can be created. VLAN IDs must be in the range (2 - 4094) You must save before you can edit or delete.									
VLANs Setting Table										
Select	VLAN ID	Description	Inter VLAN Routing	Port 1	Port 2	Port 3				
	1	Default	Disabled	Untagged	Untagged	Untagged				
	10	Accounting	Disabled	Tagged	Tagged	Tagged				
	20	Sales	Disabled	Tagged	Tagged	Tagged				
	30	Shipping	Disabled	Tagged	Tagged	Tagged				
	40	AfterSales		Tagged 👻	Tagged 👻	Tagged 👻				
Add Row	Add Row Edit Delete									
Save	Cancel									

新增成員

步驟 1.要向VLAN新增成員,請選中相應VLAN的覈取方塊。在本示例中,成員將新增到VLAN 40的AfterSales中。

1	VLAN Membership									
Create VLANs and assign the Outgoing Frame Type. Up to five VLANs total can be created. VLAN IDs must be in the range (2 - 4094) You must save before you can edit or delete.										
	VLANs Setti	ing Table								
	Select	VLAN ID	Description	Inter VLAN Routing	Port 1	Port 2	Port 3			
		1	Default	Disabled	Untagged	Untagged	Untagged			
		10	Accounting	Disabled	Tagged	Tagged	Tagged			
		20	Sales	Disabled	Tagged	Tagged	Tagged			
		30	Shipping	Disabled	Tagged	Tagged	Tagged			
		40	AfterSales		Tagged 🔻	Tagged 🔻	Tagged 🔻			
	Add Row	Edit	Delete							
	Save	Cancel								

步驟 2.按一下「Edit」。

V	VLAN Membership										
	Create VLANs and assign the Outgoing Frame Type. Up to five VLANs total can be created. VLAN IDs must be in the range (2 - 4094)										
You must save before you can edit or delete.											
	VLANs Setti	ng Table									
	Select	VLAN ID	Description	Inter VLAN Routing	Port 1	Port 2	Port 3				
		1	Default	Disabled	Untagged	Untagged	Untagged				
		10	Accounting	Disabled	Tagged	Tagged	Tagged				
		20	Sales	Disabled	Tagged	Tagged	Tagged				
		30	Shipping	Disabled	Tagged	Tagged	Tagged				
		40	AfterSales		Tagged 🔻	Tagged 🔻	Tagged 🔻				
	Add Row	Edit	Delete								
	Save	Cancel									

步驟3.(可選)勾選覈取方塊以禁用VLAN間路由。如果啟用了VLAN間,則需要為路由功能中 將包含的VLAN分配IP地址。

注意:在本示例中,VLAN間路由處於未選中狀態或禁用狀態。

V	VLAN Membership									
	Create VLANs Up to five VLA You must save	and assign the Ns total can be before you car	e Outgoing Frame Type. created. VLAN IDs must be in t edit or delete.	he range (2 - 4094)						
	VLANs Setti	ng Table								
	Select	VLAN ID	Description	Inter VLAN Routing	Port 1	Port 2	Port 3			
		1	Default	Disabled	Untagged	Untagged	Untagged			
		10	Accounting	Disabled	Tagged	Tagged	Tagged			
		20	Sales	Disabled	Tagged	Tagged	Tagged			
		30	Shipping	Disabled	Tagged	Tagged	Tagged			
		40	AfterSales		Tagged 🔻	Tagged 🔻	Tagged 🔹			
	Add Row	Edit	Delete							
	Save	Cancel								

步驟 4.在首選埠中選擇VLAN標籤。按一下下拉箭頭,然後選擇「未標籤」、「已標籤」或「 已排除」。

- 未標籤 介面是VLAN中未標籤的成員。VLAN的幀會以未標籤的方式傳送到埠VLAN。
- 已標籤 介面是VLAN的已標籤成員。VLAN的幀會被標籤到埠VLAN。
- 已排除 連線埠目前不是VLAN的成員。建立VLAN時,這是所有埠的預設設定。

注意:在本例中,AfterSales VLAN標籤為埠1、埠2和埠3的成員。

VLAN I	VLAN Membership										
Create \ Up to fiv	Create VLANs and assign the Outgoing Frame Type. Up to five VLANs total can be created. VLAN IDs must be in the range (2 - 4094)										
You must save before you can edit or delete.											
VLAN	s Setting Table										
Sele	ct VLAN ID	Description	Inter VLAN Routing	Port 1	Port 2	Port 3					
	1	Default	Disabled	Untagged	Untagged	Untagged					
	10	Accounting	Disabled	Tagged	Tagged	Tagged					
	20	Sales	Disabled	Tagged	Tagged	Tagged					
	30	Shipping	Disabled	Tagged	Tagged	Tagged					
	40	AfterSales	•	Tagged 🔹	Tagged 🔻	Tagged 🔻					
Add	Row Edit	Delete		Untagged Tagged Excluded							
Save	Cancel										

步驟 5.按一下「Save」。

١	/LAN Mem	nbership										
	Create VLANs Up to five VLA You must save	Create VLANs and assign the Outgoing Frame Type. Up to five VLANs total can be created. VLAN IDs must be in the range(2 - 4094) You must save before you can edit or delete.										
	VLANs Sett	ing Table										
	Select	VLAN ID	Description	Inter VLAN Routing	Port 1	Port 2	Port 3					
		1	Default	Disabled	Untagged	Untagged	Untagged					
		10	Accounting	Disabled	Tagged	Tagged	Tagged					
		20	Sales	Disabled	Tagged	Tagged	Tagged					
		30	Shipping	Disabled	Tagged	Tagged	Tagged					
		40	AfterSales		Tagged 🔻	Tagged 🔹	Tagged 🔻					
	Add Row	Edit	Delete									
C	Save	Cancel										

現在,您應該已經成功地將成員新增到您的VLAN中。配置設定已成功儲存的確認消息將顯示 在「VLAN成員資格」頁面的頂部。

v	VLAN Membership										
	Configuration settings have been saved successfully										
Create VLANs and assign the Outgoing Frame Type. Up to five VLANs total can be created. VLAN IDs must be in the range (2 - 4094)											
VLANs Setting Table											
	Select	VLAN ID	Description	Inter VLAN Routing	Port 1	Port 2	Port 3				
		1	Default	Disabled	Untagged	Untagged	Untagged				
		10	Accounting	Disabled	Tagged	Tagged	Tagged				
		20	Sales	Disabled	Tagged	Tagged	Tagged				
		30	Shipping	Disabled	Tagged	Tagged	Tagged				
	V		AfterSales		Tagged 👻	Tagged 👻	Tagged 👻				
	Add Row Edit Delete										
	Save	Cancel									

為VLAN分配IP地址

步驟 1.按一下「LAN > LAN Configuration」。



注意:在本例中,我們將向VLAN 40新增IP地址。

LAN Configuration					
Network					
Host Name:	RV134	w			
Domain Name:					
IPv4					
VLAN:	40 👻				
Local IP Address:	1 10	. 168	. 105	.1	(Hint: 192.168.1.1)
Subnet Mask:	20 30	. 255	. 255	. 0	
Server Settings(DHCP)	40)			

步驟 3.在Local IP Address欄位下,輸入您需要為該VLAN分配的IP位址。

注意:在本示例中,我們將IP地址192.168.40.1分配給VLAN 40。

LAN Configuration								
	Network							
	Hest Name:	RV134W						
	Domain Name:							
	IPv4							
	VLAN:	40 👻				_		
	Local IP Address:	192	168	40	1	(Hint: 192 168 1 1)		
	SubnetMask	255	. 255	. 255	. 0			

步驟 4.在Subnet Mask欄位中輸入VLAN的子網掩碼。

LAN Configuration								
Network								
Hest Name:	RV134W							
Domain Name:								
IPv4								
VLAN:	40 -							
Local IP Address:	192 168	40 1	(Hint: 192 168 1 1)					
SubnetMask	255 . 255	. 255 . 0						

步驟 5.按一下「Save」。

DHCP Option 66/150 & 67 ⁻	🗖 Enable
TETP Server Host Name:	
TETP Server IP:	
Configuration Filename.	
Save Cancel	

現在,您應該已經成功地為VLAN分配了IP地址。

關於此翻譯

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