在RV34x系列路由器上配置IP源防護

目標

當路由器未受到物理保護時,網路處於易受攻擊的位置。要防止通過從網路裝置拔下乙太網電 纜並將其插回來未經授權訪問網路,必須註冊一個清單,列出允許使用它們各自的IP和 MAC地址直接連線到路由器的主機。

IP Source Guard允許管理員通過繫結IP地址和MAC地址來保護埠的物理安全。

本文的目的是展示如何在RV34x系列路由器上配置IP源保護。

適用裝置

• RV34x系列

軟體版本

• 1.0.00.33

設定IP來源防護

步驟1.登入到基於Web的實用程式,然後選擇Security > IP Source Guard。

Getting Started Status and Statistics Administration System Configuration WAN QoS LAN Routing Firewall VPN Security Application Control Wizard Application Control Web Filtering Content Filtering IP Source Guard

步驟2.選中EnableIP Source Guard覈取方塊以啟用此功能。預設情況下禁用此功能。

附註:「IP源保護」區域面板中將出現一行紅色文本,通知您啟用IP源保護並阻止未知

IF all	P Source Guard Notice: E the LAN Hosts except the ones	Enabling IP Source added in the bindir	Guard/Block Ung table.	Inknown MAC address will block
(Enable IP Source Guard Block Unknown MAC Address			
	IP & MAC Binding Table (Max Entr	y Number: 45, Curre	nt Entry Numbe	r: 0)
	Static IPv4 Address		MAC Address	
	Add Edit	Delete		
	DHCP Lease Table (Static DHCP 8	Dynamic lease from	DHCP server)	
	IPv4 Address	MAC Address		Action
	192.168.1.106	80:e8:6f:0a:5d:ee		Add to IP&MAC Binding Table
IP all	Source Guard Notice: E the LAN Hosts except the ones Enable IP Source Guard Block Unknown MAC Address	nabling IP Source added in the bindir	Guard/Block L ng table.	Inknown MAC address will block
	Static IDv/ Address	y Number: 45, Curre	MAC Address	r: 0)
H	Static IFV4 Address		MAC Address	
	Add Edit	Delete		
h	DHCP Lease Table (Static DHCP &	Dynamic lease from	DHCP server)	
	IPv4 Address	MAC Address	2.1.0. 301101)	Action
	192.168.1.106	80:e8:6f:0a:5d:ee		Add to IP&MAC Binding Table
L				
	Apply Cancel			
	步驟4.按一下Apply。			

IP Source Guard Notice: E all the LAN Hosts except the ones	nabling IP Source Guard/Block added in the binding table.	Unknown MAC address will block
 Enable IP Source Guard Block Unknown MAC Address 		
IP & MAC Binding Table (Max Entr	y Number: 45, Current Entry Numl	per: 0)
Static IPv4 Address	MAC Address	3
Add Edit	Delete	
DHCP Lease Table (Static DHCP &	Dynamic lease from DHCP server)
IPv4 Address	MAC Address	Action
192.168.1.106	80:e8:6f:0a:5d:ee	Add to IP&MAC Binding Table
步驟5.在「IP和MAC繫結表」 條目。 附註:最多可建立45個條目。 IP Source Guard Notice: E all the LAN Hosts except the ones	下,按一下Add以建立用於繫 inabling IP Source Guard/Block added in the binding table.	結靜態分配的IP地址和MAC地址的
Block Unknown MAC Address		
IP & MAC Binding Table (Max Entr	y Number: 45, Current Entry Num	ber: 0)
Static IPv4 Address	MAC Addres	S
Add Edit	Delete	
DHCP Lease Table (Static DHCP &	Dynamic lease from DHCP serve	n
IPv4 Address	MAC Address	Action
192.168.1.106	80:e8:6f:0a:5d:ee	Add to IP&MAC Binding Table
Apply Cancel		
	龄〕而左败古黑上针四边子	燃的整能公司的同步制

步驟6.在*靜態IPv4地址*欄位中,輸入要在路由器上註冊的主機的靜態分配的IP地址。

附註:在本示例中,使用了192.168.1.122。

IP Source Guard Notice: Enabling IP Source Guard/Block Unknown MAC address will block all the LAN Hosts except the ones added in the binding table.

 Enable IP Source Guard Block Unknown MAC Address IP & MAC Binding Table (Max Entremation) 	y Number: 45, Currer	nt Entry Number: 1)
Static IPv4 Address		MAC Address
☑ 192.168.1.122		
Add Edit	Delete	
DHCP Lease Table (Static DHCP &	Dynamic lease from	DHCP server)
IPv4 Address	MAC Address	Action
192.168.1.106	80:e8:6f:0a:5d:ee	Add to IP&MAC Binding Table
Apply Cancel		

步驟7.在MAC Address欄位中,輸入要繫結的靜態分配主機的MAC地址。

附註:在本示例中,使用了80:e8:6f:0a:d5:aa。

IP Source Guard Notice: Enabling IP Source Guard/Block Unknown MAC address will block all the LAN Hosts except the ones added in the binding table.

IP & MAC Binding Table (M	lax Entry Number: 45, Current Er	ntry Number: 1)
 Static IPV4 Address 192.168.1.122 		80:e8:6f:0a:d5:aa
Add Edit	Delete	
DHCP Lease Table (Static I	DHCP & Dynamic lease from DHC	CP server)
DHCP Lease Table (Static I IPv4 Address	DHCP & Dynamic lease from DHC MAC Address	CP server) Action
DHCP Lease Table (Static I IPv4 Address 192.168.1.106	DHCP & Dynamic lease from DHC MAC Address 80:e8:6f:0a:5d:ee	CP server) Action Add to IP&MAC Binding Table

IP Source Guard Notice: Enabling IP Source Guard/Block Unknown MAC address will block all the LAN Hosts except the ones added in the binding table.

 Enable IP Source Guard Block Unknown MAC Address 			
IP & MAC Binding Table (Max Entry N	umber: 45, Current Ent	ry Number: 1)	
Static IPv4 Address		MAC Address	
☑ 192.168.1.122		80:e8:6f:0a:d5:a	a
Add Edit D	Delete		
DHCP Lease Table (Static DHCP & Dy	namic lease from DHC	P server)	
IPv4 Address	MAC Address		Action
192.168.1.106	80:e8:6f:0a:5d:ee		Add to IP&MAC Binding Table
Apply Cancel			
DHCP租用表(DHCP伺服器 鈕。 IP Source Guard Notice: Ena LAN Hosts except the ones added in	皆的靜態DHCP和動 bling IP Source Guar the binding table.	態租用)中的A d/Block Unknowr	Add to IP&MAC Binding Table按
 Enable IP Source Guard Block Unknown MAC Address 			
IP & MAC Binding Table (Max Entry N	umber: 45, Current Ent	ry Number: 1)	
Static IPv4 Address		MAC Address	
192.168.1.122		80:e8:6f:0a:d5:aa	a
Add Edit D	Delete		
DHCP Lease Table (Static DHCP & Du	namic lease from DHC	P server)	
IPv4 Address	MAC Address	301101)	Action
192.168.1.106	80:e8:6f:0a:5d:ee		Add to IP&MAC Binding Table
Apply Cancel			

附註:在本例中,使用的動態主機的IP為192.168.1.106,MAC地址為80:e8:6f:0a:5d:ee。然後 它將出現在IP和MAC繫結表中。

IP Source Guard	Notice: Enabling IP Source Guard/Block Unknown MAC address will block all
the LAN Hosts except the	ones added in the binding table.

Static IPv4 Address		MAC Address
192.168.1.106		80:e8:6f:0a:5d:ee
192.168.1.122		80:e8:6f:0a:d5:aa
Add	Delete	
CP Lease Table (Static D	HCP & Dynamic lease from	DHCP server)
CP Lease Table (Static D	HCP & Dynamic lease from MAC Address	DHCP server) Action
• Lease Table (Static D	HCP & Dynamic lease from MAC Address	DHCP server)

步驟10.按一下Apply。

IP Source Guard Notice: Enabling IP Source Guard/Block Unknown MAC address will block all the LAN Hosts except the ones added in the binding table.

BIOCK UNKNOWN MAC Ad	dress		
IP & MAC Binding Table (Max Entry Number: 45, Current Entry N	lumber: 2)	
Static IPv4 Address	MAC	Address	
192.168.1.106	80:e4	3:6f:0a:5d:ee	
192.168.1.122	80:el	3:6f:0a:d5:aa	
Add Edit	Delete		
DHCP Lease Table (Static IPv4 Address	DHCP & Dynamic lease from DHCP se MAC Address	Action	
DHCP Lease Table (Static IPv4 Address Apply Cancel	DHCP & Dynamic lease from DHCP se MAC Address	Action	

現在,您應該已經在RV34x系列路由器上成功配置了IP源防護。