Configure IP Source Guard on the RV34x Series Router

Objective

When a router is not physically secured, the network is left in a vulnerable position. To prevent unauthorized access to the network by means of unplugging an Ethernet cable from a network device and plugging it back, it is important to register a list of allowed hosts to directly connect to the router with their respective IP and MAC addresses.

IP Source Guard allows an administrator to physically secure ports by binding IP addresses and MAC addresses.

The objective of this article is to show you how to configure the IP Source Guard on the RV34x Series Router.
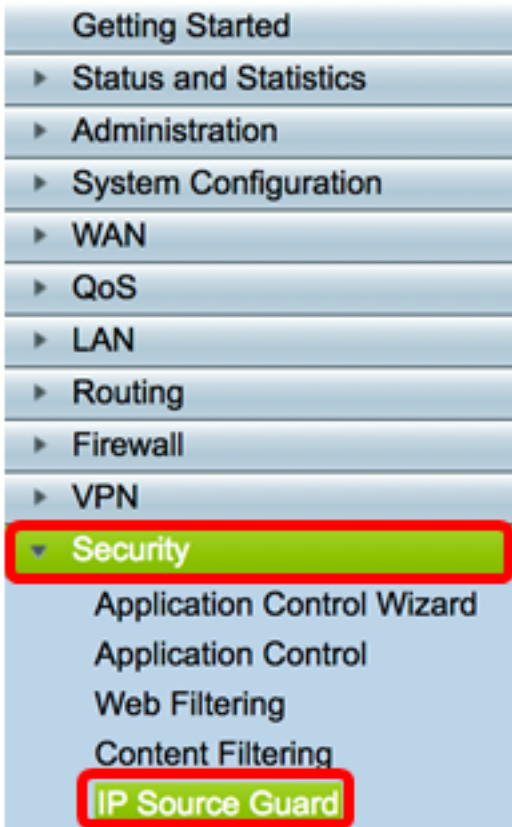
Applicable Devices

• RV34x Series

Software Version

• 1.0.00.33

Configure IP Source Guard

Step 1. Log in to the web-based utility and choose **Security > IP Source Guard**.

Step 2. Check the **EnableIP Source Guard** check box to enable the feature. This feature is disabled by default.

Note: A line of red text will appear in the IP Source Guard area panel to inform you that enabling IP Source Guard and Block Unknown MAC Address will block all the LAN hosts except the ones added in the binding table.

Step 3. (Optional) Check the Block Unknown MAC Address check box to block any hosts that attempt to connect to the network through a port. This feature is disabled by default.

Step 4. Click **Apply**.

Step 5. Under the IP & MAC Binding Table, click **Add** to create an entry to bind a statically assigned IP address and MAC address.

Note: A maximum of 45 entries can be created.

Step 6. In the *Static IPv4 Address* field, enter the statically assigned IP address of the host to be registered on the router.

Note: For this example, 192.168.1.122 is used.

Step 7. In the *MAC Address* field, enter the MAC address of the statically assigned host to bind.

Note: In this example, 80:e8:6f:0a:d5:aa is used.

Step 8. Click **Apply**.

Step 9. (Optional) To bind a host with a dynamically assigned IP address to its respective MAC address, click on the **Add to IP&MAC Binding Table** button in the DHCP Lease Table (Static DHCP & Dynamic lease from DHCP server).

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 Number: 45, Current Entry Number: 1)

☑	Static IPv4 Address	MAC Address
☐	192.168.1.122	80:e8:6f:0a:d5:aa

[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]

Note: For this example, the dynamic host used has an IP of 192.168.1.106 with a MAC address of 80:e8:6f:0a:5d:ee. It will then appear in the 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 Number: 45, Current Entry Number: 2)

☐	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]　[Edit]　[Delete]

DHCP Lease Table (Static DHCP & Dynamic lease from DHCP server)

IPv4 Address	MAC Address	Action

[Apply]　[Cancel]

Step 10. Click **Apply**.

Step 11. (Optional) To save the configuration permanently, go to the Copy/Save

Configuration page or click the [**Save**] icon at the upper portion of the page.

You should now have successfully configured the IP Source Guard on the RV34x Series Router.