

# Configure Port Forwarding and Port Triggering in RV160 and RV260 Routers

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## Objective

The objective of this article is to show you how to configure port forwarding and port triggering on the RV160 and RV260 Routers.

## Applicable Devices | Firmware Version

RV160 | 1.0.00.13

RV260 | 1.0.00.13

## Introduction

Port forwarding and port triggering are features that allow some internet users to have access to specific resources on your network, while protecting the resources that you want to keep private.

Port forwarding allows public access to services on network devices on the Local Area Network (LAN) by opening a specific port or port range for a service, such as file transfer protocol (FTP). Port forwarding opens a port range for services such as internet gaming that uses alternate ports to communicate between the server and the LAN host.

Port triggering allows a specified port or port range to open for inbound traffic after user sends outbound traffic through the trigger port. Port triggering allows the device to monitor outgoing data for specific port numbers. The device recalls the IP address of the client that sent the matching data. When the requested data returns through the device, the data is sent to the proper client using the IP addressing and port mapping rules.

For more information on port forwarding and port triggering, click [here](#).

## Configure Port Forwarding

To configure port forwarding, follow these steps:

Step 1. Log in to the web configuration utility. Enter the username and password for the router and click **Login**. The default username and password is *cisco*.

In this article, we will be using the RV260 to configure port forwarding. The configuration may vary depending on the model you use.



## Router

Username **1**

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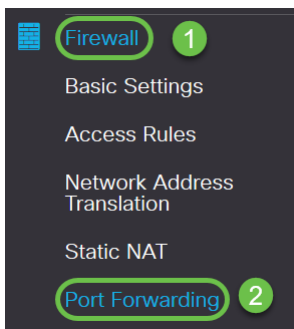
Password **2**

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English **3**

Login

Step 2. Click **Firewall > Port Forwarding**.



Step 3. In the Port Forwarding Table, click **add icon** or select the row and click **edit icon**) and configure the following:

- Enable** Check **Enable to enable port forwarding**
- External Service** Select an external service from the drop-down list. (If a service is not listed, you can add or modify the list by following the instructions in the Service Management section)
- Internal Service** Select an internal service from the drop-down list. (If a service is not listed, you can add or modify the list by following the instructions in the Service Management section)
- Internal IP Addresses** Enter the internal IP addresses of the server
- Interfaces** Select the interface from the drop-down list, to apply port forwarding on

Port Forwarding Table

<input type="checkbox"/> Enable	External Service	Internal Service	Internal IP Address	Interfaces
<input checked="" type="checkbox"/>	All Traffic <b>2</b>	All Traffic		WAN

To add or edit an entry on the Service list, follow these steps:

Step 4. Click **Service Management**.

Enable
  External Service
  Internal Service
  Internal IP Address
  Interfaces

Step 5. In the *Service Management* click **Add icon** or select a row and click **Edit icon**.

Configure the following:

**Application Name** - Name of the service or application.

**Protocol** - Required protocol. Refer to the documentation for the service that you are hosting.

**Port Start/ICMP Type/IP Protocol** - Range of port numbers reserved for this service.






**Port End** - Last number of the port reserved for this service.

Service Management Apply Cancel Back

<input type="checkbox"/> Name	Protocol	Port Start/ICMP Type/IP Protocol	Port End/ICMP Code
<input type="checkbox"/> All Traffic	ALL	--	--
<input type="checkbox"/> BGP	TCP	179	179
<input type="checkbox"/> DNS-TCP	TCP	53	53
<input type="checkbox"/> DNS-UDP	UDP	53	53
<input type="checkbox"/> ESP	IP	50	--
<input type="checkbox"/> FTP	TCP	21	21
<input type="checkbox"/> HTTP	TCP	80	80
<input type="checkbox"/> HTTPS	TCP	443	443
<input type="checkbox"/> ICMP Destination Unreachable	ICMP	3	--
<input type="checkbox"/> ICMP Ping Reply	ICMP	0	--
<input type="checkbox"/> ICMP Ping Request	ICMP	8	--
<input type="checkbox"/> ICMP Redirect Message	ICMP	5	--
<input type="checkbox"/> ICMP Router Advertisement	ICMP	9	--
<input type="checkbox"/> ICMP Router Solicitation	ICMP	10	--

To add a service, click on the **plus icon** and configure Name, Protocol, Port Start/ICMP Type/IP Protocol and Port End/ICMP Code.






Service Management Apply Cancel Back

<input type="checkbox"/>	RTSP-UDP	UDP	554	554
<input type="checkbox"/>	SFTP	TCP	115	115
<input type="checkbox"/>	SIP-TCP	TCP	5060	5060
<input type="checkbox"/>	SIP-UDP	UDP	5060	5060
<input type="checkbox"/>	SMTP	TCP	25	25
<input type="checkbox"/>	SNMP-TCP	TCP	161	161
<input type="checkbox"/>	SNMP-TRAPS-TCP	TCP	162	162
<input type="checkbox"/>	SNMP-TRAPS-UDP	UDP	162	162
<input type="checkbox"/>	SNMP-UDP	UDP	161	161
<input type="checkbox"/>	SSH-TCP	TCP	22	22
<input type="checkbox"/>	SSH-UDP	UDP	22	22
<input type="checkbox"/>	TACACS	TCP	49	49
<input type="checkbox"/>	TELNET	TCP	23	23
<input type="checkbox"/>	TFTP	UDP	69	69
<input type="checkbox"/>	<input type="text" value=""/>	TCP	1000	1000

To edit a service, select a row and click on the **edit icon** to configure the fields as shown below.

Service Management Apply






<input type="checkbox"/>	Name	Protocol	Port Start/ICMP Type/IP Protocol	Port End/ICMP Code
<input type="checkbox"/>	All Traffic	ALL	--	--
<input type="checkbox"/>	BGP	TCP	179	179
<input type="checkbox"/>	DNS-TCP	TCP	53	53
<input type="checkbox"/>	DNS-UDP	UDP	53	53
<input type="checkbox"/>	ESP	IP	50	--
<input checked="" type="checkbox"/>	FTP	TCP	21	21
<input type="checkbox"/>	HTTP	All	80	80
<input type="checkbox"/>	HTTPS	TCP	443	443
<input type="checkbox"/>	ICMP Destination Unreachable	UDP	3	--
<input type="checkbox"/>	ICMP Ping Reply	IP	0	--

In this example, FTP service is selected.

Step 6. Click **Apply**.



Port Forwarding Apply Cancel

Port Forwarding Table ^

     Service Management...

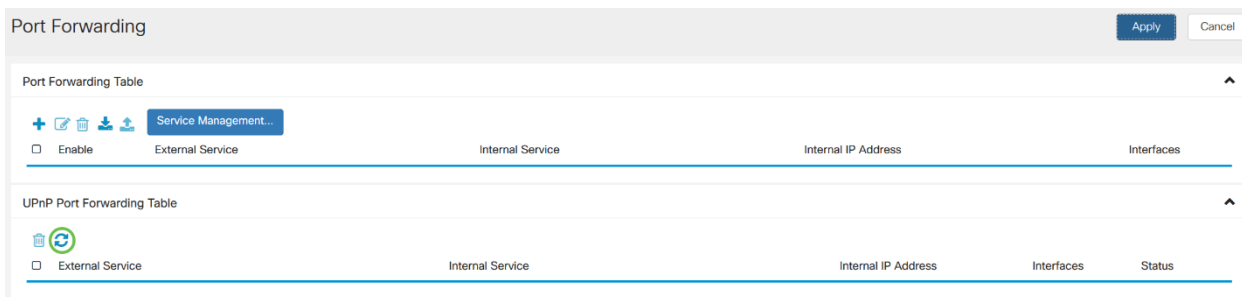
<input type="checkbox"/>	Enable	External Service	Internal Service	Internal IP Address	Interfaces
<input type="checkbox"/>					

UPnP Port Forwarding Table ^

<input type="checkbox"/>	External Service	Internal Service	Internal IP Address	Interfaces	Status
<input type="checkbox"/>					

Step 7. In the Universal Plug and Play (UPnP) Port Forwarding Table, click the **refresh icon** to refresh the data. The port forwarding rules for UPnP are dynamically added by the UPnP application.



## Configure Port Triggering

To configure port triggering, follow these steps:

Step 1. Log in to the web configuration utility. Enter the username and password for the router and click **Login**. The default username and password is *cisco*.



### Router

Username **1**

---

Password **2**

---

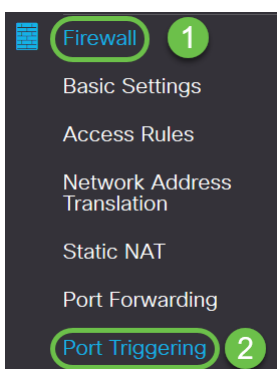
English **3**

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Login **3**

In this article, we will be using the RV260 to configure port triggering. The configuration may vary depending on the model you use.

Step 2. Click **Firewall > Port Triggering**.

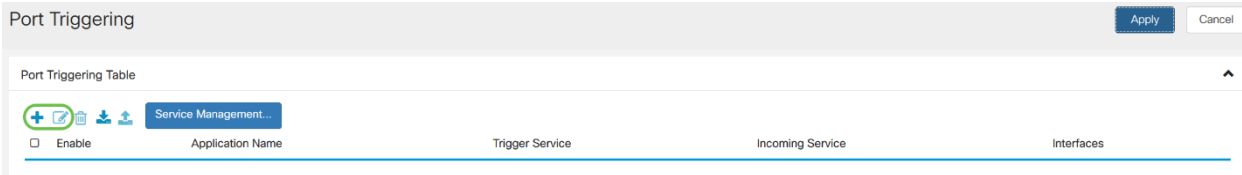


Step 3. To add or edit a service to the port triggering table, configure the following:

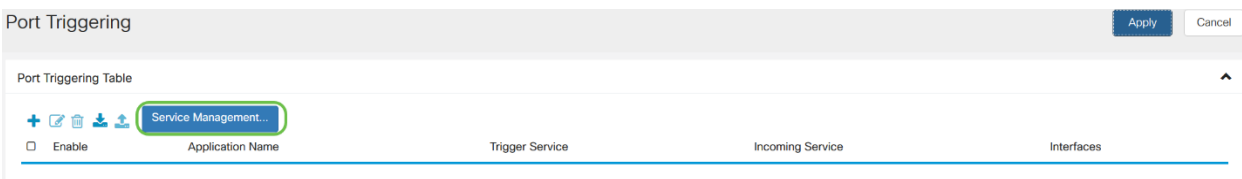
Click **add icon** (or select the row and click **edit icon** and enter the information:

**Enable**      **Check to enable port triggering**

- Application Name** Enter the name of the application
- Trigger Service** Select a service from the drop-down list (If a service is not listed, you can add or modify the list by following the instructions in the Service Management section)
- Incoming Service** Select a service from the drop-down list (If a service is not listed, you can add or modify the list by following the instructions in the Service Management section)
- Interfaces** Select the interface from the drop-down list



Step 4. Click **Service Management** to add, or edit an entry on the Service list.



Step 5. In the *Service Management*, click **add icon** or select the row and click **edit icon**.

Configure the following:

**Application Name** - Name of the service or application.

**Protocol** - Required protocol. Refer to the documentation for the service that you are hosting.

**Port Start/ICMP Type/IP Protocol** - Range of port numbers reserved for this service.

**Port End** - Last number of the port reserved for this service.

Service Management Apply Cancel Back

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<input type="checkbox"/> Name	Protocol	Port Start/ICMP Type/IP Protocol	Port End/ICMP Code
<input type="checkbox"/> All Traffic	ALL	--	--
<input type="checkbox"/> BGP	TCP	179	179
<input type="checkbox"/> DNS-TCP	TCP	53	53
<input type="checkbox"/> DNS-UDP	UDP	53	53
<input type="checkbox"/> ESP	IP	50	--
<input type="checkbox"/> FTP	TCP	21	21
<input type="checkbox"/> HTTP	TCP	80	80
<input type="checkbox"/> HTTPS	TCP	443	443
<input type="checkbox"/> ICMP Destination Unreachable	ICMP	3	--
<input type="checkbox"/> ICMP Ping Reply	ICMP	0	--
<input type="checkbox"/> ICMP Ping Request	ICMP	8	--
<input type="checkbox"/> ICMP Redirect Message	ICMP	5	--
<input type="checkbox"/> ICMP Router Advertisement	ICMP	9	--
<input type="checkbox"/> ICMP Router Solicitation	ICMP	10	--

To add a service, click on the *plus icon* and configure *Name*, *Protocol*, *Port Start/ICMP Type/IP Protocol* and *Port End/ICMP Code*.

Service Management Apply Cancel Back

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<input type="checkbox"/> RTSP-UDP	UDP	554	554
<input type="checkbox"/> SFTP	TCP	115	115
<input type="checkbox"/> SIP-TCP	TCP	5060	5060
<input type="checkbox"/> SIP-UDP	UDP	5060	5060
<input type="checkbox"/> SMTP	TCP	25	25
<input type="checkbox"/> SNMP-TCP	TCP	161	161
<input type="checkbox"/> SNMP-TRAPS-TCP	TCP	162	162
<input type="checkbox"/> SNMP-TRAPS-UDP	UDP	162	162
<input type="checkbox"/> SNMP-UDP	UDP	161	161
<input type="checkbox"/> SSH-TCP	TCP	22	22
<input type="checkbox"/> SSH-UDP	UDP	22	22
<input type="checkbox"/> TACACS	TCP	49	49
<input type="checkbox"/> TELNET	TCP	23	23
<input type="checkbox"/> TFTP	UDP	69	69
<input type="checkbox"/>	TCP	1000	1000

To edit a service, select a row and click on the *edit icon* to configure the fields as shown below.

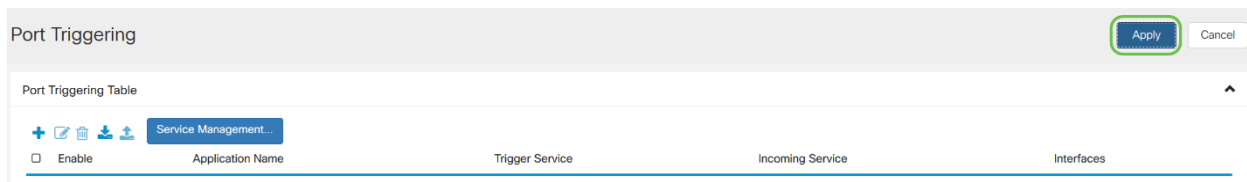
Service Management Apply

+ ✎ 🗑️ 📄 📥 📤

<input type="checkbox"/> Name	Protocol	Port Start/ICMP Type/IP Protocol	Port End/ICMP Code
<input type="checkbox"/> All Traffic	ALL	--	--
<input type="checkbox"/> BGP	TCP	179	179
<input type="checkbox"/> DNS-TCP	TCP	53	53
<input type="checkbox"/> DNS-UDP	UDP	53	53
<input type="checkbox"/> ESP	IP	50	--
<input checked="" type="checkbox"/> FTP	TCP	21	21
<input type="checkbox"/> HTTP	TCP	80	80
<input type="checkbox"/> HTTPS	TCP	443	443
<input type="checkbox"/> ICMP Destination Unreachable	ICMP	3	--
<input type="checkbox"/> ICMP Ping Reply	ICMP	0	--

In this example, FTP service is selected.

**Step 6. Click Apply.**



You have now successfully configured port forwarding/port triggering on the RV160 and RV260 Routers.