

Configure an Internet Protocol (IP) Address Group on the RV34x Series Router

Objective

An Internet Protocol (IP) Address Group is a feature of the RV34x Series Router that allows an administrator to group IP addresses based on IP version. This supports other functions on the router such as [Web Filtering](#) and [Application Control](#). By using this feature, this allows an administrator to further regulate access to resources on the Internet.

The objective of this document is to show you how to configure an IP Address Group on the RV34x Series Router.

Applicable Devices

- RV34x Series

Software Version

- 1.0.01.16

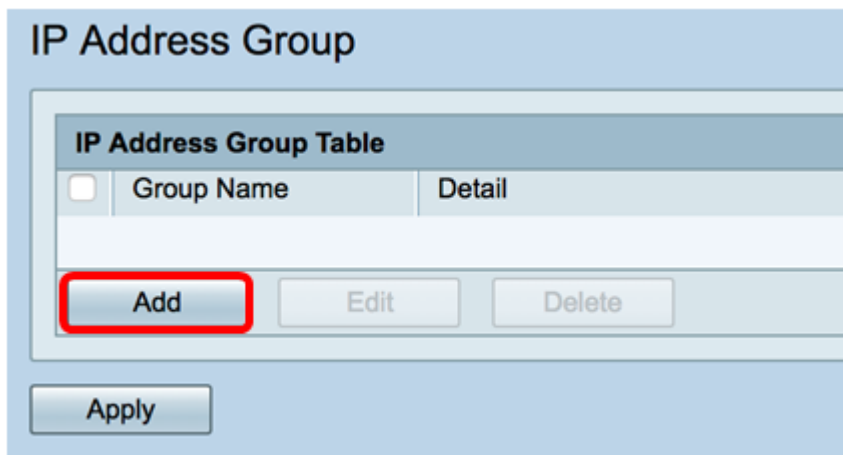
Add an IP Address Group

IPv4-based IP Address Group

Step 1. Log in to web-based utility of the router and choose **System Configuration > IP Address Group**.



Step 2. In the IP Address Group Table, click **Add** to create an entry.



Step 3. In the Add/Edit IP Address Group window that appears, enter a name that will easily identify the group in the *Group Name* field. The field only accepts alphanumeric characters and underscores (_) for special characters.

Note: In this example, Stoneroses_grp1 is used.

Add/Edit IP Address Group

Group Name:

| IP Address Group Table | | | |
|--|----------|------|-----------------|
| <input type="checkbox"/> | Protocol | Type | Address Details |
| <input type="button" value="Add"/> <input type="button" value="Edit"/> <input type="button" value="Delete"/> | | | |

Step 4. In the IP Address Group Table, click **Add** to create an entry.

Add/Edit IP Address Group

Group Name:

| IP Address Group Table | | | |
|--|----------|------|-----------------|
| <input type="checkbox"/> | Protocol | Type | Address Details |
| <input type="button" value="Add"/> <input type="button" value="Edit"/> <input type="button" value="Delete"/> | | | |

Step 5. From the Protocol drop-down menu, choose an Internet Protocol. The options are:

- IPv4 — Internet Protocol version 4 (IPv4) is a 32-bit (4-byte) address. If you chose this, continue to [Step 6](#).
- IPv6 — A successor to IPv4, consists of a 128-bit (8-byte) address. If you chose this, skip to the [IPv6-based IP Address Group](#) configuration area.

Add/Edit IP Address Group

Group Name:

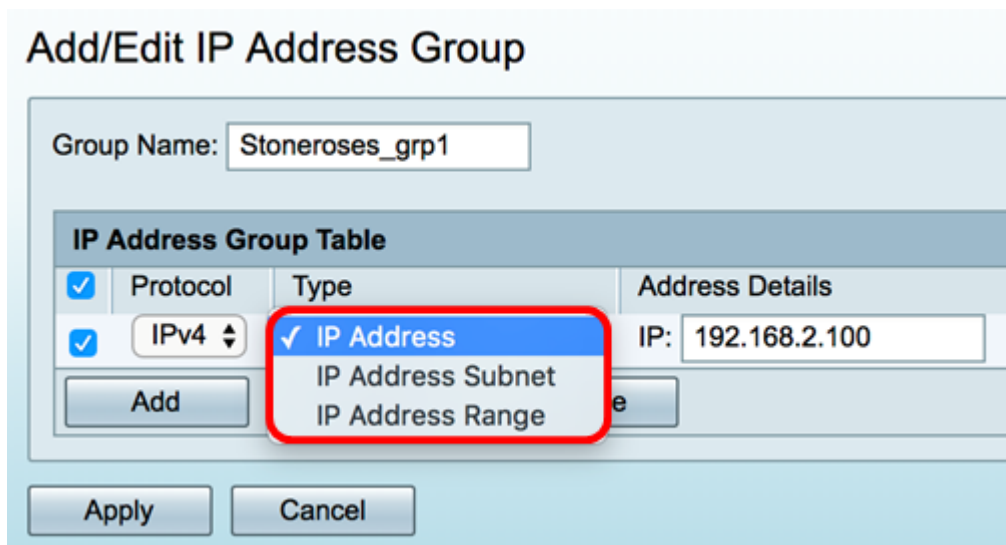
| IP Address Group Table | | | |
|--|----------|------------|--------------------------|
| <input checked="" type="checkbox"/> | Protocol | Type | Address Details |
| <input checked="" type="checkbox"/> | IPv4 | IP Address | IP: <input type="text"/> |
| <input type="checkbox"/> | IPv6 | | |
| <input type="button" value="Add"/> <input type="button" value="Edit"/> <input type="button" value="Delete"/> | | | |

[Step 6](#). Choose a type which the IPv4 will use to create a pool of IP addresses. The options

are:

- IP Address — The IP address group uses a single IP address. If this is chosen, skip to [Step 7](#).
- IP Address Subnet — A portion of a network that shares a particular subnet address. If this is chosen, skip to [Step 8](#).
- IP Address Range — Enter a range of host IP addresses within the same subnetwork. If this is chosen, skip to [Step 9](#).

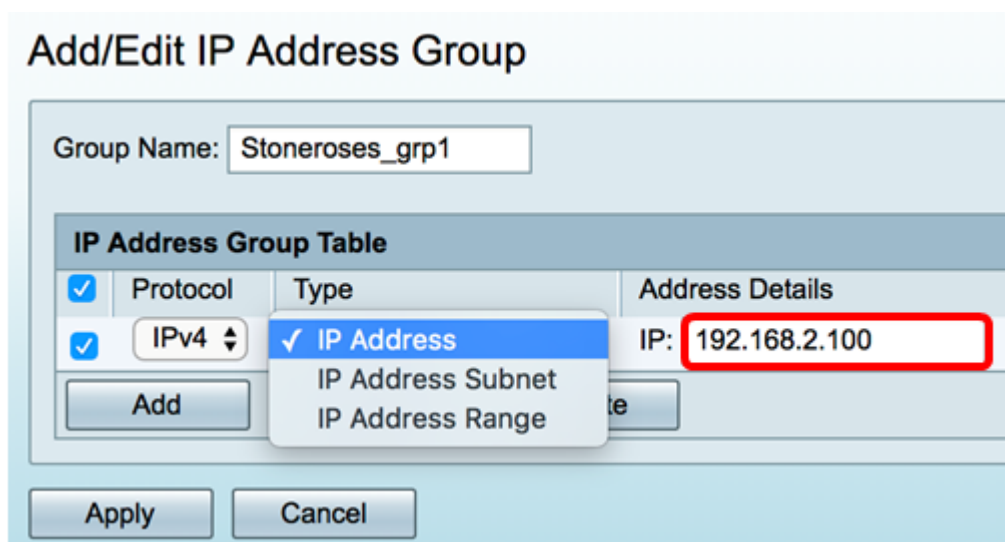
Note: In this example, IP Address is used.



The screenshot shows the 'Add/Edit IP Address Group' form. The 'Group Name' field contains 'Stoneroses_grp1'. Below this is the 'IP Address Group Table' section, which includes a table with columns for 'Protocol', 'Type', and 'Address Details'. The 'Protocol' column has a checked checkbox and a dropdown menu set to 'IPv4'. The 'Type' column has a checked checkbox and a dropdown menu with 'IP Address' selected, highlighted by a red box. The 'Address Details' column has an 'IP:' label and a text field containing '192.168.2.100'. Below the table are 'Add' and 'Delete' buttons. At the bottom of the form are 'Apply' and 'Cancel' buttons.

[Step 7](#). If you chose IP Address, enter an IP address you want to assign to the group in the *IP* field.

Note: In this example, 192.168.2.100 is used.



This screenshot is identical to the previous one, but the 'IP' field in the 'Address Details' column is now highlighted with a red box, indicating that the IP address '192.168.2.100' has been entered.

[Step 8](#). If you chose IP Address subnet, enter an IP address and subnet mask in their respective fields.

Note: In this example, 192.168.2.102 is used as the IP address and 255.255.255.0 for the subnet mask.

Group Name: Stoneroses_grp1

| IP Address Group Table | | | |
|-------------------------------------|----------|-------------------|--|
| <input checked="" type="checkbox"/> | Protocol | Type | Address Details |
| <input checked="" type="checkbox"/> | IPv4 | IP Address Subnet | IP: 192.168.2.102 Netmask: 255.255.255.0 |

Add Edit Delete

Apply Cancel

Step 9. If you chose IP Address Range in Step 6, enter a range of IP addresses in the respective *Start* and *End* fields.

Note: In this example, 192.168.1.124 is used as the Start IP address and 192.168.1.152 as the End address.

Add/Edit IP Address Group

Group Name: Stoneroses_grp1

| IP Address Group Table | | | |
|-------------------------------------|----------|------------------|---|
| <input checked="" type="checkbox"/> | Protocol | Type | Address Details |
| <input checked="" type="checkbox"/> | IPv4 | IP Address Range | Start: 192.168.1.124 End: 192.168.1.152 |

Add Edit Delete

Apply Cancel

Step 10. Click **Apply**.

Add/Edit IP Address Group

Group Name: Stoneroses_grp1

| IP Address Group Table | | | |
|-------------------------------------|----------|------------|-------------------|
| <input checked="" type="checkbox"/> | Protocol | Type | Address Details |
| <input checked="" type="checkbox"/> | IPv4 | IP Address | IP: 192.168.2.100 |


Add Edit Delete

Apply Cancel

You will be redirected to the main IP Address Group page.


Step 11. Click **Apply**.


IP Address Group

| IP Address Group Table | | |
|-------------------------------------|-----------------|---|
| <input checked="" type="checkbox"/> | Group Name | Detail |
| <input checked="" type="checkbox"/> | Stoneroses_grp1 |  |

You should now have successfully configured an IPv4-based IP Address Group on the RV34x Series Router.

IP Address Group

 Success. To permanently save the configuration. Go to [Configuration Management](#) page or click Save icon.

| IP Address Group Table | | |
|-------------------------------------|-----------------|---|
| <input checked="" type="checkbox"/> | Group Name | Detail |
| <input type="checkbox"/> | Stoneroses_grp1 |  |

IPv6-based IP Address Group

Step 1. Choose a type which IPv6 will use to form an address group. The options are:

- IP Address — The IP address group uses a single IPv6 address. If this is chosen, skip to [Step 2](#).
- IP Address Subnet — A portion of a network that shares a particular subnet address. If this is chosen, skip to [Step 3](#).
- IP Address Range — Enter a range of host IPv6 addresses within the same subnetwork. If this is chosen, skip to [Step 4](#).

Note: In this example, IP Address is chosen.

Add/Edit IP Address Group

Group Name:

| IP Address Group Table | | | |
|-------------------------------------|----------|---|--------------------------|
| <input checked="" type="checkbox"/> | Protocol | Type | Address Details |
| <input checked="" type="checkbox"/> | IPv6 | <input checked="" type="checkbox"/> IP Address IP Address Subnet IP Address Range | IP: <input type="text"/> |

[Step 2.](#) If you chose IP Address, enter an IPv6 address you want to assign to the group in the *IP* field.

Note: In this example, 2001:db8:a0b:12f0::1 is used as the IP address.

Add/Edit IP Address Group

Group Name:

| IP Address Group Table | | | |
|-------------------------------------|----------|------------|---|
| <input checked="" type="checkbox"/> | Protocol | Type | Address Details |
| <input checked="" type="checkbox"/> | IPv6 | IP Address | IP: <input type="text" value="2001:db8:a0b:12f0::1"/> |

[Step 3.](#) If you chose IP Address subnet, enter an IPv6 address and the prefix-length in their respective fields.

Note: In this example, the IPv6 address is 2001:db8:a0b:12f0::1 and the prefix-length is 96.

Add/Edit IP Address Group

Group Name:

| IP Address Group Table | | | |
|-------------------------------------|----------|-------------------|--|
| <input checked="" type="checkbox"/> | Protocol | Type | Address Details |
| <input checked="" type="checkbox"/> | IPv6 | IP Address Subnet | IP: 2001:db8:a0b:12f0::1 Prefix-Length: 96 |

[Step 4.](#) If you chose IP Address Range in Step 1, enter a range of host IPv6 addresses in the respective *Start* and *End* fields.

Note: In this example, the Start address is 2001:db8:a0b:12f0::1 and the End address is 2001:db8:a0b:12f0::7.

Add/Edit IP Address Group

Group Name:

| IP Address Group Table | | | |
|-------------------------------------|----------|------------------|---|
| <input checked="" type="checkbox"/> | Protocol | Type | Address Details |
| <input checked="" type="checkbox"/> | IPv6 | IP Address Range | Start: 2001:db8:a0b:12f0::1 End: 2001:db8:a0b:12f0::7 |

Step 5. Click **Apply**.

Add/Edit IP Address Group


Group Name:

| IP Address Group Table | | | |
|-------------------------------------|----------|------------------|---|
| <input checked="" type="checkbox"/> | Protocol | Type | Address Details |
| <input checked="" type="checkbox"/> | IPv6 | IP Address Range | Start: 2001:db8:a0b:12f0::1 End: 2001:db8:a0b:12f0::7 |

You will be taken back to the main IP Address Group page.

Step 6. Click **Apply**.

IP Address Group


| IP Address Group Table | |
|--|---|
| <input type="checkbox"/> Group Name | Detail |
| <input type="checkbox"/> Stoneroses_grp1 |  |

You should now have successfully configured the IPv6-based IP Address Group on the RV34x Series Router.

IP Address Group



Success. To permanently save the configuration. Go to [Configuration Management](#) page or click Save icon.

| IP Address Group Table | |
|--|---|
| <input checked="" type="checkbox"/> Group Name | Detail |
| <input type="checkbox"/> Stoneroses_grp1 |  |