

How to Configure Failover and Load Balancing in Custom Connection Objects

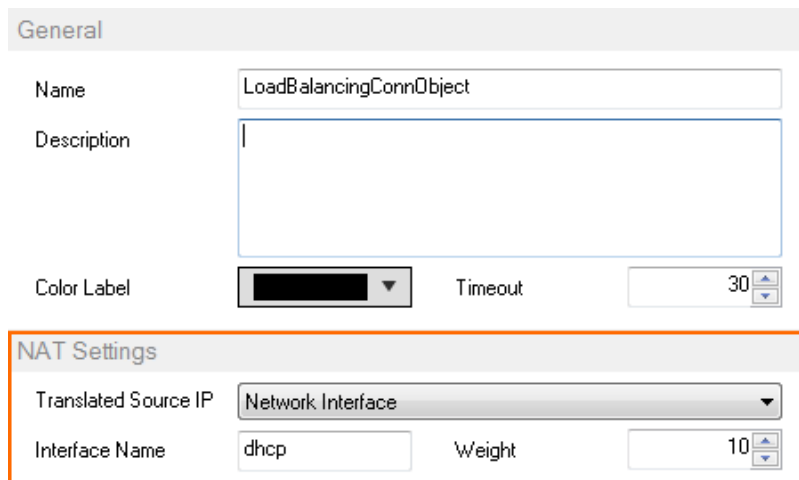
<https://campus.barracuda.com/doc/96026256/>

For custom connection options, you can configure failover and load balancing policies. You can configure up to 7 alternatives to the default translated source IP policy.

Step 1. Create a Custom Connection Object

Create a custom connection object using one of the following **Translated Source IP** policies:

- **Original Source IP**
- **Dynamic NAT**
- **Network Interface**
- **Explicit IP**



General

Name: LoadBalancingConnObject

Description:

Color Label: [Dropdown]

Timeout: 30

NAT Settings

Translated Source IP: Network Interface

Interface Name: dhcp

Weight: 10

For more information, see [How to Create a Custom Connection Object](#).

2. Configure Failover and Load Balancing Settings

In the **Failover and Load Balancing** section of the custom connection object you created in step 1 you can configure the policy and the alternative translated source IPs.

Failover

1. From the **Policy** list select **Failover**.
2. Click **+** to add alternative connections to the **Alternatives** list.
3. For each entry click on the edit symbol in the **Type** column and select how the translated source IP is determined:
 - **Explicit IP** – Enter the new source IP address in the **Value** column.
 - **Network Interface** – Enter the network interface in the **Value** column.
 - **Original Source IP**
 - **Dynamic NAT**

Failover and Load Balancing

Policy Failover

Alternatives	
Type	Value
Explicit IP	194.93.0.10
Network Interface	ppp5
Original Source IP	
Dynamic NAT	

4. Click **OK**.
5. Click **Send Changes** and **Activate**.

Weighted Round Robin

1. From the **Policy** list select **Weighted Round Robin**.
2. Click **+** to add alternative connections to the **Alternatives** list.
 - **Explicit IP** – Enter the new source IP address in the **Value** column.
 - **Network Interface** – Enter the network interface in the **Value** column.
 - **Original Source IP**
 - **Dynamic NAT**
3. (optional) In the **NAT Settings** enter the **Weight**.
4. (optional) In the **Alternatives** list enter the **Weight** for each alternative connection.

NAT Settings

Translated Source IP Network Interface

Interface Name dhcp Weight 10

Failover and Load Balancing

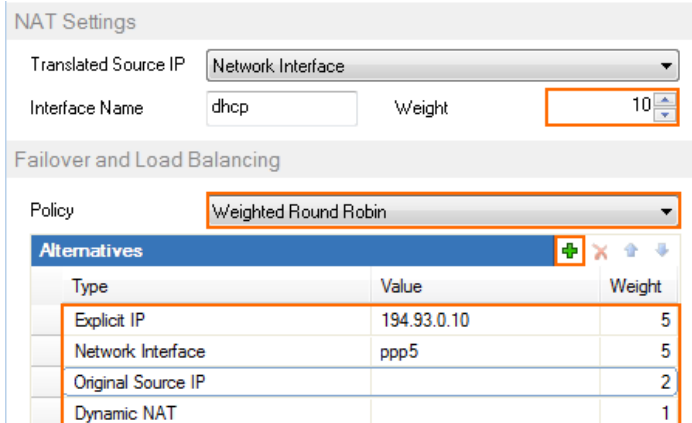
Policy Weighted Round Robin

Alternatives		
Type	Value	Weight
Explicit IP	194.93.0.10	5
Network Interface	ppp5	5
Original Source IP		2
Dynamic NAT		1

5. Click **OK**.
6. Click **Send Changes** and **Activate**.

Weighted Random

1. From the **Policy** list select **Weighted Random**.
2. Click **+** to add alternative connections to the **Alternatives** list.
 - **Explicit IP** – Enter the new source IP address in the **Value** column.
 - **Network Interface** – Enter the network interface in the **Value** column.
 - **Original Source IP**
 - **Dynamic NAT**
3. (optional) In the **NAT Settings** enter the **Weight**.
4. (optional) In the **Alternatives** list enter the **Weight** for each alternative connection.



The screenshot shows the configuration interface for a policy. The **NAT Settings** section has a dropdown for 'Translated Source IP' set to 'Network Interface', an 'Interface Name' field with 'dhcp', and a 'Weight' spinner set to '10'. Below this is the **Failover and Load Balancing** section, where the 'Policy' dropdown is set to 'Weighted Round Robin'. The **Alternatives** table lists four options with their respective weights.

Type	Value	Weight
Explicit IP	194.93.0.10	5
Network Interface	ppp5	5
Original Source IP		2
Dynamic NAT		1

5. Click **OK**.
6. Click **Send Changes** and **Activate**.

Source IP Hash

1. From the **Policy** list select **Source IP Hash**.
2. Click **+** to add alternative connections to the **Alternatives** list.
 - **Explicit IP** – Enter the new source IP address in the **Value** column.
 - **Network Interface** – Enter the network interface in the **Value** column.
 - **Original Source IP**
 - **Dynamic NAT**
3. (optional) In the **NAT Settings** enter the **Weight**.
4. (optional) In the **Alternatives** list enter the **Weight** for each alternative connection.

NAT Settings

Translated Source IP: Network Interface

Interface Name: dhcp Weight: 10

Failover and Load Balancing

Policy: Source IP Hash

Alternatives

Type	Value	Weight
Explicit IP	194.93.0.10	5
Network Interface	ppp5	5
Original Source IP		2
Dynamic NAT		1

5. Click **OK**.
6. Click **Send Changes** and **Activate**.

Provider Optimization

Provider Optimization selects the optimal TCP connection by determining the provider with the fastest response time to TCP probing packets sent by the firewall. The option requires you to specify at least two connections to rival, e.g., an interface, a dynamic IP, an explicit IP.

This option needs to activate Feature Level 8.0.

1. From the **Policy** list, select **Provider Optimization**.
2. Click **+** to add connections for probing to the **Alternatives** list.
 - **Explicit IP** – Enter the new source IP address in the **Value** column.
 - **Network Interface** – Enter the network interface in the **Value** column.
 - **Original Source IP**
 - **Dynamic NAT**
3. (optional) In the **NAT Settings**, enter the **Weight**.
4. (optional) In the **Alternatives** list, enter the **Weight** for each alternative connection.

NAT Settings

Translated Source IP: Dynamic NAT

Weight: 1

Failover and Load Balancing

Policy: Provider Optimization

Alternatives

Type	Value	Weight
Explicit IP	194.93.0.10	5
Network Interface	ppp5	5
Original Source IP		2
Dynamic NAT		1

Next Steps

Create a Pass, Dst NAT or Broad-Multicast access rule and select the connection object as the **Connection Method**.

For more information, see [Access Rules](#).

Figures

1. conn_obj_lb_00.png
2. conn_obj_lb_01.png
3. conn_obj_lb_02.png
4. conn_obj_lb_02.png
5. conn_obj_lb_04.png
6. conn_object_provider_optimization_01.png

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