



## Managing Policies

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Policies are access rules that traffic must match when load balancing to a server farm. Policies allow the CSM to balance Layer 7 traffic. Multiple policies can be assigned to one virtual server, creating multiple access rules for that virtual server.

When configuring policies, you must first configure the access rules (maps and / or client-groups) and then you combine these access rules under a particular policy.

This section includes the following topics:

- [Viewing Policies, page 7-2](#)
- [Adding Policies, page 7-4](#)
- [Editing Policies, page 7-9](#)
- [Viewing Policy Nodes, page 7-13](#)

# Viewing Policies

Figure 7-1 Policies Page

Policy Name	Conditions						Action	
	Cookie Map	URL Map	Header Map	Client ...	Server Farm	Backup Serve...	Sticky ...	Reverse Sticky Group
152-BATS-...	152-6-CM	152-6-LIM	152-6-HM	152	152-6-SF	152-6-BSF	152	153
152-Y-153	152-Y-153-...	152-Y-153-...	152-Y-153-...	152-y-...	152-Y-153	BATS-010-SF	24	66
ABCD			TUITY					
ADFSADFAD				0				
ADSFADS								
ADSFASDF								
ADVWZP...	ADFASD	ALLURL	TEST	1222	SF-NEW1	SF-SOL	74	55
ASDF								
DDD								
DSFADS								
EDT*EFT								
POL-FULL	100C	DD	TEST-COOK	1	SF-SOL	SMK-SF-2	77	55
SADFA	152-6-CM	22	222111	12	SF	SF-FINAL	23	23
SDFADS				test				
SDFASD								
SMK-PL-1				1123	SMK-SF-2		233	
SSS			TITYI					
START								
TR-POL	TR-CMAP	TR-LMAP	TR-HMAP				1	
XYZ*ABC								

You can view all policies configured in the device.

To view policies:

- 
- Step 1 Click **Home** at the top of the page.
  - Step 2 Click **Policies** under the **Services Dashboard**.

Or:

- 
- Step 1 Click **Setup** from the task bar, then click **Policies** in the left-most pane.
  - Step 2 Select **Policies** from the object selector.

The following fields appear:

Field	Action/Description
Policy Name	Policy associated with a virtual server. The string is limited to 15 characters.
<b>Conditions</b>	
Cookie Map	Name of the cookie map associated with a policy. Only one Cookie map can be associated with a policy.
URL Map	Name of the URL map associated with a policy. Only one URL map can be associated with a policy.
Header Map	Name of the Header map associated with a policy. Only one Header map can be associated with a policy.
Client Group	Client-group can be either standard access-list name or ID (from 1 to 99). Only one client-group can be associated with a given SLB policy.
<b>Action</b>	
Server Farm	Name of the server farm associated to the real server. You can choose one Server Farm and/or Backup Server Farm to associate to the Policy.
Backup Server Farm	
Sticky Group	Number identifying the sticky group to which the virtual server belongs.
Reverse Sticky	Ensures that CSM switches connections in the opposite direction back to the original source.

From the main Policies page, you can access functions to do the following:

- Click **Add** to add new policies. For more information, see [“Adding Policies” section on page 7-4](#).
- Click **Edit** to edit policies. For more information, see [“Editing Policies” section on page 7-9](#).
- Select a row and click **Delete** to delete policies.

# Adding Policies

You can add a policy, and you can associate one map of each type and one Sticky group to the policy.

To create new policies:

- 
- Step 1** Click **Home** at the top of the page.
  - Step 2** Click **Policies** under **Services Dashboard**.
  - Step 3** Click **Add** to add policies.

Or:

- 
- Step 1** Click **Setup** from the task bar, then click **Policies** in the left-most pane.
  - Step 2** Select **Policies** from the object selector.
  - Step 3** Click **Add** to add policies.

The following fields appear:

Field	Description
Policy Name	Enter the policy associated with a virtual server. The string is limited to 15 characters.
Cookie Map	<p>From the list, select the name of the cookie map to be associated with the policy. Only one Cookie map can be associated with a policy.</p> <p>Click <input type="text" value="v..."/> and select one of the following:</p> <ul style="list-style-type: none"> <li>• <b>Select Cookie Map</b> to select from a list of configured Cookie Maps.</li> <li>• <b>Create Cookie Map</b> to create a Cookie Map. For more information on creating Cookie Maps, see <a href="#">“Adding a Cookie Map” section on page 8-9.</a></li> <li>• <b>Clear Cookie Map</b> to clear the field.</li> </ul>
URL Map	<p>From the list, select the name of the URL map to be associated with the policy. Only one URL map can be associated with a policy</p> <p>Click <input type="text" value="v..."/> and select one of the following:</p> <ul style="list-style-type: none"> <li>• <b>Select URL Map</b> to select from a list of configured URL Maps.</li> <li>• <b>Create URL Map</b> to create a URL Map. For more information on creating URL Maps, see <a href="#">“Adding a URL Map” section on page 8-23.</a></li> <li>• <b>Clear URL Map</b> to clear the field.</li> </ul>

Field	Description
Header Map	<p>From the list, select the name of the Header map to be associated with the policy. Only one Header map can be associated with a policy.</p> <p>Click <input type="text" value="v..."/> and select one of the following:</p> <ul style="list-style-type: none"> <li>• <b>Select Header Map</b> to select from a list of configured Header Maps.</li> <li>• <b>Create Header Map</b> to create a Header Map. For more information on creating Header Maps, see <a href="#">“Adding a Header Map” section on page 8-26.</a></li> <li>• <b>Clear Header Map</b> to clear the field.</li> </ul>
Client Group	<p>From the list, select the client group number or name. Only one client-group can be associated with a given server-load balancing (SLB) policy.</p> <p>Click <input type="text" value="v..."/> and select one of the following:</p> <ul style="list-style-type: none"> <li>• <b>Create Client Group</b> to create a Client group. Enter the Client group ID or Name.</li> <li>• <b>Clear Client Group</b> to clear the Client group.</li> </ul>
<b>Server Farm</b>	
Server Farm	<p>From the list, select the name of the server farm associated to the real server. You can choose one Server Farm to associate to the Policy.</p> <p>Click <input type="text" value="v..."/> and select one of the following:</p> <ul style="list-style-type: none"> <li>• <b>Select Server Farms</b> to select from a list of configured Server Farms.</li> <li>• <b>Create Server Farms</b> to create the Server Farms. For more information on creating Server Farms, see <a href="#">“Adding Server Farms” section on page 5-4.</a></li> <li>• <b>Clear Server Farms</b> to clear the field.</li> </ul>

Field	Description
Backup Server Farm	<p>From the list, select the name of the backup server farm associated to the real server. You can choose one Backup Server Farm to associate to the Policy.</p> <p>Click <input type="button" value="v..."/> and select one of the following:</p> <ul style="list-style-type: none"><li>• <b>Select Server Farms</b> to select from a list of configured Backup Server Farms.</li><li>• <b>Create Server Farms</b> to create the Backup Server Farm. For more information on creating Backup Server Farm, see <a href="#">“Adding Server Farms” section on page 5-4</a>.</li><li>• <b>Clear Server Farms</b> to clear the field.</li></ul>
Sticky	Select this check box to ensure that connections from the same client that match the same SLB policy use the same real server on subsequent connections.
Sticky Group	

Field	Description
Sticky Group	<p>From the list, select the number identifying the sticky group to which the virtual server belongs.</p> <p>The range is from 0 to 255.</p> <p>Click <input type="text" value="▽..."/> and select one of the following:</p> <ul style="list-style-type: none"> <li>• <b>Select Sticky Groups</b> to select from a list of configured Sticky Groups.</li> <li>• <b>Create Sticky Groups</b> to create Sticky Groups. For more information on creating Sticky Groups, see <a href="#">“Adding a Sticky Group” section on page 9-5.</a></li> <li>• <b>Clear Sticky Groups</b> to clear the field.</li> </ul>
Reverse Sticky Group	<p>From the list, select the number identifying the reverse sticky group to which the virtual server belongs.</p> <p>The range is from 0 to 255.</p> <p>Click <input type="text" value="▽..."/> and select one of the following:</p> <ul style="list-style-type: none"> <li>• <b>Select Sticky Groups</b> to select from a list of configured Sticky Groups.</li> <li>• <b>Create Sticky Groups</b> to create Sticky Groups. For more information on creating Sticky Groups, see <a href="#">“Adding a Sticky Group” section on page 9-5.</a></li> <li>• <b>Clear Sticky Groups</b> to clear the field.</li> </ul>



# Editing Policies




To edit policies:

- 
- Step 1** Click **Home** at the top of the page.
  - Step 2** Click **Policies** under **Services Dashboard**.
  - Step 3** Select a row in the table and click **Edit** to launch Edit dialog for the selected Policy.

Or:

- 
- Step 1** Click **Setup** from the task bar, then click **Policies** in the left-most pane.
  - Step 2** Select **Policies** from the object selector.
  - Step 3** Select a row in the table and click **Edit** to launch Edit dialog for the selected Policy.

The following fields appear:

Field	Description
Policy Name	Name of the policy associated with a virtual server. The string is limited to 15 characters.
Cookie Map	<p>From the list, select the name of the cookie map associated with a policy. Only one Cookie map can be associated with a policy.</p> <p>Click  and select one of the following:</p> <ul style="list-style-type: none"> <li>• <b>Select Cookie Map</b> to select from a list of configured cookie maps.</li> <li>• <b>Create Cookie Map</b> to create a Cookie Map. For more information on creating Cookie Maps, see <a href="#">“Adding a Cookie Map” section on page 8-9</a>.</li> <li>• <b>Clear Cookie Map</b> to clear the field.</li> </ul>
URL Map	<p>From the list, select the name of the URL map associated with a policy. Only one URL map can be associated with a policy.</p> <p>Click  and select one of the following:</p> <ul style="list-style-type: none"> <li>• <b>Select URL Map</b> to select from a list of configured URL Maps.</li> <li>• <b>Create URL Map</b> to create a URL Map. For more information on creating URL Maps, see <a href="#">“Adding a URL Map” section on page 8-23</a>.</li> <li>• <b>Clear URL Map</b> to clear the field.</li> </ul>
Header Map	<p>From the list, select the name of the Header map associated with a policy. Only one Header map can be associated with a policy.</p> <p>Click  and select one of the following:</p> <ul style="list-style-type: none"> <li>• <b>Select Header Map</b> to select from a list of configured Header Maps.</li> <li>• <b>Create Header Map</b> to create a Header Map. For more information on creating Header Maps, see <a href="#">“Adding a Header Map” section on page 8-26</a>.</li> <li>• <b>Clear Header Map</b> to clear the field.</li> </ul>

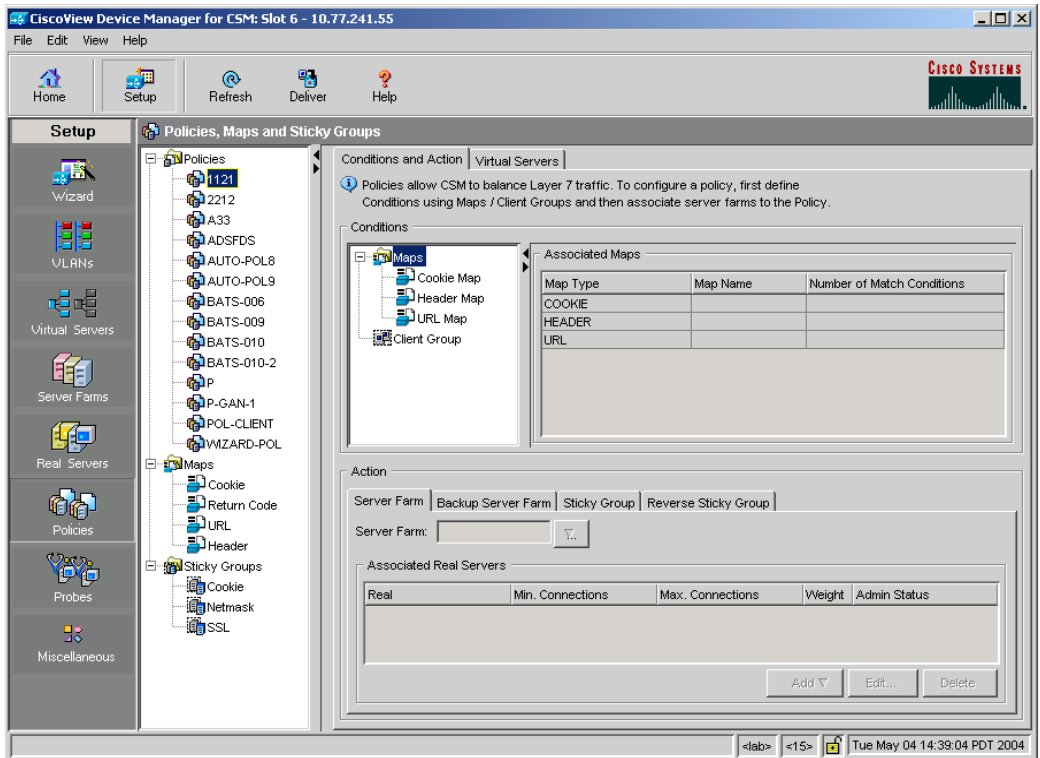
Field	Description
Client Group	<p>From the list, select the client group number or name. Only one client-group can be associated with a given server-load balancing (SLB) policy.</p> <p>Click <input type="text" value="▽..."/> and select one of the following:</p> <ul style="list-style-type: none"> <li>• <b>Create Client group</b> to create a Client group. Enter the Client group ID.</li> <li>• <b>Clear Client group</b> to clear the Client group.</li> </ul>
<b>Server Farm</b>	
Server Farm	<p>From the list, select the name of the server farm associated to the real server. You can choose one Server Farm to associate to the Policy.</p> <p>Click <input type="text" value="▽..."/> and select one of the following:</p> <ul style="list-style-type: none"> <li>• <b>Select Server Farms</b> to select from a list of configured Server Farms.</li> <li>• <b>Create Server Farms</b> to create the Server Farms. For more information on creating Server Farms, see <a href="#">“Adding Server Farms” section on page 5-4.</a></li> <li>• <b>Clear Server Farms</b> to clear the field.</li> </ul>
Backup Server Farm	<p>From the list, select the name of the backup server farm associated to the real server. You can choose one Backup Server Farm to associate to the Policy.</p> <p>Click <input type="text" value="▽..."/> and select one of the following:</p> <ul style="list-style-type: none"> <li>• <b>Select Server Farms</b> to select from a list of configured Backup Server Farms.</li> <li>• <b>Create Server Farms</b> to create the Backup Server Farm. For more information on creating Backup Server Farm, see <a href="#">“Adding Server Farms” section on page 5-4.</a></li> <li>• <b>Clear Server Farms</b> to clear the field.</li> </ul>
Sticky	<p>Select this to ensure that connections from the same client that match the same SLB policy use the same real server on subsequent connections.</p>
<b>Sticky Group</b>	

Field	Description
Sticky Group	<p>From the list, select the number identifying the sticky group to which the virtual server belongs.</p> <p>Click <input type="text" value="▽..."/> and select one of the following:</p> <ul style="list-style-type: none"> <li>• <b>Select Sticky Groups</b> to select from a list of configured Sticky Groups.</li> <li>• <b>Create Sticky Groups</b> to create Sticky Groups. For more information on creating Sticky Groups, see <a href="#">“Adding a Sticky Group” section on page 9-5.</a></li> <li>• <b>Clear Sticky Groups</b> to clear the field.</li> </ul>
Reverse Sticky Group	<p>From the list, select the number identifying the reverse sticky group to which the virtual server belongs.</p> <p>Click <input type="text" value="▽..."/> and select one of the following:</p> <ul style="list-style-type: none"> <li>• <b>Select Sticky Groups</b> to select from a list of configured Sticky Groups.</li> <li>• <b>Create Sticky Groups</b> to create Sticky Groups. For more information on creating Sticky Groups, see <a href="#">“Adding a Sticky Group” section on page 9-5.</a></li> <li>• <b>Clear Sticky Groups</b> to clear the field.</li> </ul>

# Viewing Policy Nodes

You can view all policies configured in the device.

Figure 7-2 Policy Node Page



To view policies:

- Step 1 Click **Home** at the top of the page.
- Step 2 Click **Policies** under **Services Dashboard**.
- Step 3 Click any of the Policy nodes.

Or:

**Step 1** Click **Setup** from the task bar, then click **Policies** in the left-most pane.

**Step 2** Select **Policies** from the object selector. Click any of the Policy nodes.

The following tabs appear:

- [Conditions And Action](#)
- [Virtual Servers](#)

## Conditions And Action

Click **Conditions and Action** to see the various conditions and their actions. The fields under the Conditions table will change when you select the different maps and client groups.

When you click **Maps**, you will see a table with a summary of details of all the associated maps like map type, name, and the number of map conditions. You can associate the different types of maps when you click **Cookie Maps**, **Header Maps**, or **URL Maps** under **Maps**.

The following fields appear when you click **Maps**:

Field	Description
Map Type	Specifies if it a Cookie, Header or a URL type map.
Map Name	Name of the map.
Number of Match Conditions	Specifies the total number of match conditions.



### Note

When you click the Map tree, a list of maps and icons are displayed. The icons have a color status display, for example, the icons are white by default. When you associate a map to it, it turns green. This icon is displayed for all the three types of maps, such as, Cookie, Header, and URL maps.

You have the following types of **Conditions**:

- [Cookie Maps](#)
- [Header Maps](#)

- [URL Maps](#)
- [Client Group](#)

## Cookie Maps

From the **Conditions** tab, when you choose the **Cookie Maps** the following fields appear:


Field	Description
Cookie Map	<p>Name of the cookie map associated with the policy selected in the object selector.</p> <p>Click <input type="text" value="v..."/> and select one of the following:</p> <ul style="list-style-type: none"> <li>• <b>Select Cookie Map</b> to select from a list of configured Cookie Maps.</li> <li>• <b>Create Cookie Map</b> to create Cookie Maps. For more information on creating Cookie Maps, see <a href="#">“Adding a Cookie Map” section on page 8-9</a>.</li> <li>• <b>Clear Cookie Map</b> to clear the field.</li> </ul>
Cookie Name	Cookie Name String. This is limited to 15 characters.
Cookie Value	Cookie Value

From this page, you can access functions to do the following:

- Click **Add** to add new match conditions by entering the name and value.
- Click **Edit** to edit match conditions.
- Select a match condition and click **Delete** to delete it.

## Header Maps

From the **Conditions** tab, when you choose the **Header Maps** the following fields appear:

Field	Description
Header Map	Click  and select one of the following: <ul style="list-style-type: none"> <li>• <b>Select Header Map</b> to select from a list of configured Header Maps.</li> <li>• <b>Create Header Map</b> to create Header Maps. For more information on creating Header Maps, see <a href="#">“Adding a Header Map” section on page 8-26</a>.</li> <li>• <b>Clear Header Map</b> to clear the field.</li> </ul>
Header Name	The Header name. The string is limited to 15 characters.
Header Value	The Header Value.

From this page, you can access functions to do the following:

- Click **Add** to add new header fields and values by entering the name and value.
- Click **Edit** to edit the header fields and values.
- Select a row and click **Delete** to delete it.



## URL Maps

From the **Conditions** tab, when you choose the **URL Maps** the following fields appear:

Field	Description
URL Map	Click <input type="text" value="▽..."/> and select one of the following: <ul style="list-style-type: none"><li>• <b>Select URL Map</b> to select from a list of configured URL Maps.</li><li>• <b>Create URL Map</b> to create URL Maps. For more information on creating URL Maps, see <a href="#">“Adding a URL Map” section on page 8-23</a>.</li><li>• <b>Clear URL Map</b> to clear the field.</li></ul>
URL Method	Specifies the method in incoming HTTP requests.
URL	Specifies the URL in incoming HTTP requests.

From this page, you can access functions to do the following:

- Click **Add** to add new URL expressions by entering the name and value.
- Click **Edit** to edit the URL expressions.
- Select a row and click **Delete** to delete it.

## Client Group

From the **Conditions** tab, when you choose the **Client Group** the following fields appear:

Field	Description
Client Group	<p>Client-group can be either standard access-list name or ID (from 1 to 99). Only one client group can be associated with a given server-load balancing (SLB) policy.</p> <p>Click <input type="button" value="▽..."/> and select one of the following:</p> <ul style="list-style-type: none"><li>• <b>Create Client Group</b> to create Client Group by entering the Client Group ID.</li><li>• <b>Clear Client Group</b> to clear the field.</li></ul>

## Action

The following tabs appear under the **Actions** section:

- [Server Farms and Backup Server Farms](#)
- [Sticky Group](#)
- [Reverse Sticky Group](#)

## Server Farms and Backup Server Farms



### Note

You can configure a Backup Server Farm only after you configure a Server Farm.

Click **Server Farms** and/or **Backup Server Farms** to view all the Server Farms and Backup Server Farm that are associated to this policy.

The following fields appear:

Field	Description
Server Farm/Backup Server Farm	<p>You can choose one Server Farm and/or Backup Server Farm to associate to the Policy.</p> <p>Click <input type="text" value="▽..."/> and select one of the following:</p> <ul style="list-style-type: none"> <li>• <b>Select Server Farm</b> to select from a list of configured Server Farms.</li> <li>• <b>Create Server Farm</b> to create Server Farms or Backup Server Farms. For more information on creating Server Farms, see <a href="#">“Adding Server Farms” section on page 5-4</a>.</li> <li>• <b>Clear Server Farm</b> to clear the field.</li> </ul>

From this dialog, you can access functions to do the following:

- Click **Add** and do one of the following:

- Select **Create Named Real Server** to create a named real server. For more information, see [“Adding Named Real Server” section on page 5-17](#).
- Select **Create Unnamed Real Server** to create an unnamed real server. For more information, see [“Adding Unnamed Real Server” section on page 5-20](#).
- Select a Real Server and click **Edit** to edit the configuration values.
- Select a Real Server and click **Delete** to delete the Real Server.

For more information on Server Farms, see [“Viewing Server Farms” section on page 5-2](#).

## Sticky Group

Click **Sticky Groups** to view all the sticky groups that are associated to this policy.

The following fields appear:

Field	Description
Sticky Groups	Number identifying the sticky group to which the virtual server belongs. The range is from 0 to 255. Click <input type="text" value="▽..."/> and select one of the following: <ul style="list-style-type: none"> <li>• <b>Select Sticky Groups</b> to select from a list of configured Sticky Groups.</li> <li>• <b>Create Sticky Groups</b> to create Sticky Groups. For more information on creating Sticky Groups, see <a href="#">“Adding a Sticky Group” section on page 9-5</a>.</li> <li>• <b>Clear Sticky Groups</b> to clear the field.</li> </ul>
Type	Type of Sticky Group.
Timeout	Time in seconds to wait before a connection is considered unreachable.

## Reverse Sticky Group

Click **Reverse Sticky Groups** to view all the Sticky Group that are associated to this policy.

The following fields appear:

Field	Description
Reverse Sticky Groups	<p>Number identifying the sticky group to which the virtual server belongs. The range is from 0 to 255.</p> <p>Click <input type="text" value="▽..."/> and select one of the following:</p> <ul style="list-style-type: none"> <li>• <b>Select Sticky Groups</b> to select from a list of configured Sticky Groups.</li> <li>• <b>Create Sticky Groups</b> to create Sticky Groups. For more information on creating Sticky Groups, see <a href="#">“Adding a Sticky Group” section on page 9-5</a>.</li> <li>• <b>Clear Sticky Groups</b> to clear the field.</li> </ul>
Type	Type of reverse sticky group.
Timeout	Time in seconds to wait before a connection is considered unreachable.

## Virtual Servers

Click the **Virtual Servers** tab to view the details of all the virtual servers to which the policy selected in the object selector is associated to. For more information on Virtual Servers, see [“Viewing Virtual Servers” section on page 4-2](#).

