

Managing Server Farms

The managing Server Farms page has two sections Server Fams and NAT Pools, for more details see:

- Server Farms, page 5-1
- NAT Pools, page 5-28

Server Farms

A server farm (or server pool) is a collection of servers that contain the same content. You can specify the server farm name when you configure the server farm and add real servers.

Related Topics:

- Viewing Server Farms, page 5-2
- Adding Server Farms, page 5-4
 - Adding Named Real Server, page 5-17
 - Adding Unnamed Real Server, page 5-20
 - Adding Redirect Virtual Server, page 5-24
- Editing Server Farms, page 5-9
 - Editing a Real Server, page 5-22
 - Editing Redirect Virtual Servers, page 5-26
- Viewing Server Farm Node, page 5-14

Viewing Server Farms

Figure 5-1 Server Farms Page

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Image: Servers product Image: Server prod prod product Image: Server product </td <td>VLANs</td> <td>BATS-009-BSF</td> <td>BATS-009</td> <td>Roundrobin</td> <td>Server</td> <td>2</td> <td>0</td> <td></td>	VLANs	BATS-009-BSF	BATS-009	Roundrobin	Server	2	0	
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	Real Servers Policies Probes							

To view Server Farms:

- **Step 1** Click **Home** at the top of the window.
- Step 2 Click Server Farms under Services Dashboard.

Or:

- Step 1 Click Setup from the task bar.
- Step 2 Click Server Farms in the left-most pane. The following details are shown in the content area.

Field	Description
Name	Name of the server farm about which information is being displayed.
	Information about each server farm is displayed on a separate line.
Predictor	Type of load-balancing algorithm used by the server farm.
NAT	Shows whether server and client NAT (Network Address Transalation) is enabled.
Reals	Number of real servers configured in the server farm.
Redirects	Shows the number of redirect virtual servers configured in the server farm.
Return Code Map	Return code map name associated with the server farm.

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

- Click **Add** to add Server Farms. For more information, see "Adding Server Farms" section on page 5-4.
- Select a node and click **Edit** to edit a Server Farm. For more information, see "Editing Server Farms" section on page 5-9.
- Select a node and click **Delete** to delete the Server Farm.

Adding Server Farms

To add Server Farms:

Step 1	Click Home	at 1	the	top	of	the	window
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- Step 2 Click Server Farms under Services Dashboard.
- Step 3 Click the Add button provided at the end of the table to create a new Server Farm. Or:
- Step 1 Click Setup from the task bar and click Server Farms in the left-most pane.
- Step 2 Click the Add button provided at the end of the table to create a new Server Farm. The Add Server Farm dialog box has the following tabs:
 - General
 - Real Server
 - Health Checkup
 - Redirect Virtual Server

General

In the General tab, the following details are displayed:

Field	Descriptions
Name	Enter the name of the Server Farm.
Load Balancing Algorithm	Specify the load-balancing algorithm for the server farm from the list. Based on the load balancing algorithm the traffic will be diverted to the respective real server. The fields Mask Type and Mask are applicable only for Hash Address algorithm type.
NAT	Select the check box to specify Client NAT or Server NAT. When client NAT is enabled you must specify the corresponding client NAT pool.

Real Server

In the **Real Servers** tab, the following details are displayed:

Fields	Description
Real	Number of real servers configured in the server farm.
Min. Connections	The minimum number of connections for the real server.
Max. Connections	The maximum number of connections for the real server.
Weight	Weight assigned to the real server. The weight identifies the capacity of the real server compared to other real servers in the server farm.
Admin Status	Lets you know if the real server is in service or out of service.

From this page, you can click **Add** to add new named or unnamed real server. For more information on adding named and unnamed real servers, see

- "Adding Named Real Server" section on page 5-17
- "Adding Unnamed Real Server" section on page 5-20

Health Checkup

In the Health Checkup tab, the following details are displayed:

Field	Description
Fail Action	Specify the fail action criteria. Choose among None, Purge, and Reassign.
HTTP Return Code	Specify the return code map.
Inband Health Checkup	Select the check box to activate the following fields.
	• Number of Retries-Enter the number of retries.
	• Retry Interval (in seconds)- Enter the retry interval span in seconds.
Associate Probes	You can associate or disassociate a probe to the server farm.

Redirect Virtual Server

In the **Redirect Virtual Server** tab, the following details are displayed:

Field	Description
Name	The name of the redirect virtual server.
SSL Port	SSL port number; the range is from 1 to 65535.
Status	Status of the redirect virtual server.

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

- Add a new redirect virtual server. For more information, see "Adding Redirect Virtual Server" section on page 5-24.
- Select a row and click **Delete** to delete a Redirect Virtual Server.

Editing Server Farms

To edit selected Server Farm details:

- Step 1 Click Home at the top of the window.
- Step 2 Click Server Farms under Services Dashboard.
- Step 3 Select the server farm node. The details are displayed in the right pane.
- Step 4 Click Edit to launch the Edit Server Farms dialog box. Or:
- Step 1 Click Setup from the task bar, then select Server Farms from the left-most pane. The Server Farm details appear in the content pane.
- Step 2 Select the Sever Farm Node. The details are displayed on the right pane.
- **Step 3** Click **Edit** to launch the Edit Server Farms dialog box. The Edit Server Farm dialog box has the following tabs:
 - General
 - Real Server
 - Health Checkup
 - Redirect Virtual Server

General

In the **General** tab the following details are displayed:

Fields	Descriptions
Name	The name of the Server Farm.
Load Balancing Algorithm	Specify the load-balancing algorithm for the server farm from the list. Based on the load balancing algorithm the traffic will be diverted to the respective real server. The fields Mask Type and Mask are applicable only for Hash Address algorithm type.
NAT	Select the check box to specify Client NAT or Server NAT. When client NAT is enabled you must specify the corresponding client NAT pool.

Real Server

In the **Real Servers** tab the following details are displayed:

Fields	Description
Real	Number of real servers configured in the server farm.
Min. Connections	The minimum number of connections for the real server.
Max. Connections	The maximum number of connections for the real server.
Weight	Weight assigned to the real server. The weight identifies the capacity of the real server compared to other real servers in the server farm.
Admin Status	Lets you know if the real server is in service or out of service.

From this section, you can click **Edit** to edit a real server. For more information on editing real servers see "Editing a Real Server" section on page 5-22.

Health Checkup

In the Health Checkup tab, the following details are displayed:

Field	Description
Fail Action	Specify the fail action criteria. Choose among None, Purge, and Reassign.
HTTP Return Code	Specify the return code map.
Inband Health Checkup	Select the check box to activate the following fields.
	• Number of Retries-Enter the number of retries.
	• Retry Interval (in seconds)- Enter the retry interval span in seconds.
Associate Probes	You can associate or disassociate a probe to the server farm.

Redirect Virtual Server

In the **Redirect Virtual Server** tab, the following details are displayed:

Field	Description
Name	The Name of the redirect virtual server.
SSL Port	SSL port number; the range is from 1 to 65535.
Status	Status of the redirect virtual server.

From this section click **Edit** to edit a redirect virtual server. For more information on editing Redirect Virtual Servers see "Editing Redirect Virtual Servers" section on page 5-26.

Viewing Server Farm Node

To view Server Farm Nodes:

Step 1 Click Home at the top of the win

- Step 2 Click Server Farms under Services Dashboard.
- Step 3 Select the Server Farm Node from the object selector. The details are shown on the content area.

Or:

- Step 1 Click Setup from the task bar.
- Step 2 Click Server Farms on the left-most pane.
- Step 3 Select the Server Farm Node in the object selector. The details are shown on the content area. The following fields are displayed:

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Field	Description
Predictor	
Load-balancing Algorithm	The load-balancing algorithm for the server farm. Based on the load balancing algorithm the traffic will be diverted to the respective real server. The fields Mask Type and Mask are applicable only for Hash Address algorithm type.
NAT	Displays Client NAT and Server NAT status. When client NAT is enabled the corresponding client NAT pool is displayed.
Real Server	
Real Server Name	The name of the Real Server.
Min. Connections	The minimum number of connections for thereal server.
Max. Connections	The maximum connections for the real server.
Weight	The weight of the real server.
Admin Status	The admin status of the real server farm with respect to this server farm.
Operational Status	The operational status of the real server farm with respect to this server farm.
Set Admin Status	Click this button to set the state of the Server instantly.
Health Checkup	
Fail Action	The course of action determind for the server farm in case of failure.
HTTP Return Code	The HTTP return code map for the server farm.
Inband Health Checkup	· · ·

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Field	Description
Number of Retries	The number of retries for the real server.
Retry Interval	The time duration for which the retry occurs.
Associate Probes	The list of probes associated with the server farm.

From the Server Farm Node page, you can access functions to do the following:

- Select a real server and click Set Admin Status to set its state instantly.
- Click the **Redirect Virtual Server** button you can add or edit a redirect virtual server. For more information, see:
 - "Adding Redirect Virtual Server" section on page 5-24
 - "Editing Redirect Virtual Servers" section on page 5-26
- Select a redirect virtual server and click **Delete** to delete a redirect virtual server.
- Click **Edit** to edit server farms. For more information, see "Editing Server Farms" section on page 5-9.

Adding Named Real Server

To add a named Real server.

Step 1	Click Home at the top of the window.
Step 2	Click Server Farms under Services Dashboard.
Step 3	Click the Add button provided at the end of the table.
Step 4	In the Add Server Farm dialog box, select Real Server.
Step 5	Click the Add button provided at the end of the table, and specify Select Named Real Server .
	Or:
Step 1	Click Setup from the task bar and click Server Farm in the left-most pane.
Step 2	Click the Add button provided at the end of the table.
Step 3	In the Add Server Farm dialog box select Real Server.
Step 4	Click the Add button provided at the end of the table and specify Select Named Real Server . The following fields are displayed:

Field	Description
Name	From the list, select the name of the named real server.
Port	Enter the port number.
Min. Connections	Enter the minimum number of connections for the real server.
Max. Connections	Enter the maximum number of connections for the real server.
Weight	Enter the weight assigned to the real server.
	The weight identifies the capacity of the real server compared to other real servers in the server farm.
Redirect Virtual Server	Click \bigtriangledown and do one of the following:
	• Select redirect virtual server from the table.
	• Create a redirect virtual server.
	• Clear an exisitng redirect virtual server.
Status	Specify the status of the real server.
Back Up Real Server	
Name	Click \bigtriangledown and do one of the following:
	• Select named real server from the table.
	• Select an unnamed real server.
	• Clear an exisitng backup real server.
Port	Displays the backup real server port number.
Probe	

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Field	Description
Probe Name	Click \bigtriangledown and do one of the following:
	• Select probe from the table.
	• Create probe.
	• Clear an existing probe.
Tag	Enter the tag for the probe.

Adding Unnamed Real Server

To add an unnamed Real Server.

Step 1	Click Home at the top of the window.		
Step 2	Click Server Farms under Services Dashboard.		
Step 3	Click the Add button provided at the end of the table.		
Step 4	 Step 4 In the Add Server Farm dialog box select Real Server. Step 5 Click the Add button provided at the end of the table and specify Add Unnamed Real Server. 		
Step 5			
	Or:		
Step 1	Click Setup from the task bar and click Server Farm in the left-most pane.		
Step 2	Click the Add button provided at the end of the table.		
Step 3	In the Add Server Farm dialog box select Real Server.		
Step 4	Click the Add button provided at the end of the table and specify Add Unnamed Real Server . The following fields are displayed:		

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IP AddressEnter the IP address of the destination.PortDecimal TCP/UDP port number (from 0 to 65535) or port name.Minimum ConnectionsEnter the minimum number of connections to the real server.Maximum ConnectionsEnter the maximum number of connections to the real server.WeightEnter the weight assigned to the real server.WeightEnter the weight identifies the capacity of the real server compared to other real servers in the server farm.Redirect Virtual ServerChoose one real server from the list.StatusSpecify the status of the real server.NameFrom the list, select the name of backup real server.PortEnter the decimal TCP/UDP port number (from 0 to 65535) or port name.ProbeNameTagEnter the tag for the probe.	Field	Description
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Maximum ConnectionsEnter the maximum number of connections to the real server.WeightEnter the weight assigned to the real server. The weight identifies the capacity of the real server compared to other real servers in the server farm.Redirect Virtual ServerChoose one real server from the list.StatusSpecify the status of the real server.Backup Real ServerFrom the list, select the name of backup real server.PortEnter the decimal TCP/UDP port number (from 0 to 65535) or port name.ProbeFrom the list, select the name of probe.TagEnter the tag for the probe.	Minimum Connections	Enter the minimum number of connections to the real server.
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Probe Name From the list, select the name of probe. Tag Enter the tag for the probe.	Port	Enter the decimal TCP/UDP port number (from 0 to 65535) or port name.
NameFrom the list, select the name of probe.TagEnter the tag for the probe.	Probe	
TagEnter the tag for the probe.	Name	From the list, select the name of probe.
	Tag	Enter the tag for the probe.

Editing a Real Server

To edit a Real server.

displayed:

Step 1	Click Home at the top of the window.	
Step 2	Click Server Farms under Services Dashboard.	
Step 3	Click the Add button provided at the end of the table.	
Step 4	4 In the Add Server Farm dialog box select Real Server.	
Step 5	Click the Edit button provided at the end of the table.	
	Or:	
Step 1	Click Setup from the task bar and click Server Farm in the left-most pane.	
Step 2	Click the Add button provided at the end of the table.	
Step 3	In the Add Server Farm dialog box select Real Server.	
Step 4	Click the Edit button provided at the end of the table. The following fields are	

Field	Description
Min. Connections	Minimum number of connections to the real server.
Max. Connections	Maximum number of connections to the real server.
Weight	Weight assigned to the real server.
	The weight identifies the capacity of the real server compared to other real servers in the server farm.
Redirect Virtual Server	Choose a real server from the list.
Status	Lets you know if the Real Server is in service, out of service or in service standby.
Back Up Real Server	
Name	Choose a backup server farm from the list.
Port	Decimal TCP/UDP port number (from 0 to 65535) or port name.
Probe	
Name	Choose a probe name from the list.
Tag	Specify a tag for the probe.

From this page, you can click **Delete** to delete a Real Server.

Adding Redirect Virtual Server

To add a Redirect Virtual Server:

Step 1	Click Home at the top of the window.
Step 2	Click Server Farms under Services Dashboard.
Step 3	Click the Add button provided at the end of the table.
Step 4	In the Add Server Farm dialog box select Redirect Virtual Server.
Step 5	Click the Add button provided at the end of the table.
	Or:
Step 1	Click Setup from the task bar and click Server Farm in the left-most pane.
Step 2	Click the Add button provided at the end of the table.
Step 3	In the Add Server Farm dialog box select Redirect Virtual Server.
Step 4	Click the Add button provided at the end of the table.

The following fields are displayed:

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Field	Description
Name	Specify the name of the Redirect virtual server.
SSL Port	SSL port number. The range is from 1 to 65535.
Status	Specify the status of the Redirect Virtual Server.
Back Up	·
Response	Specify the backup response.
HTTP Status Code	Select the HTTP status code.
Relocation	I
Response	Specify the relocation response.
HTTP Status Code	Select the HTTP Status Code.

Editing Redirect Virtual Servers

To edit a Redirect Virtual Server:

Step 1	Click Home at the top of the window.	

- Step 2 Click Server Farms under Services Dashboard.
- Step 3 Click the Add button provided at the end of the table.
- Step 4 In the Add Server Farm dialog box select Redirect Virtual Server.
- Step 5 Click the Edit button provided at the end of the table. Or:
- Step 1 Click Setup from the task bar and click Server Farm in the left-most pane.
- Step 2 Click the Add button provided at the end of the table.
- Step 3 In the Add Server Farm dialog box select Redirect Virtual Server.
- Step 4 Click the Edit button provided at the end of the table. The following fields are displayed:

Specify the name of the Redirect
viituui seivei.
SSL port number. The range is from 1 to 65535.
Edit the status of the Redirect Virtual Server.
Specify the back up response.
Select the HTTP Status Code.
I
Specify the relocation response.
Select the HTTP Status Code.

NAT Pools

When you configure client Network Address Translation (NAT) pools, NAT converts the source IP address of the client requests into an IP address on the server-side VLAN. You can configure NAT pool with range of IP Addresses. To configure NAT pool with single IP Address, you can give Starting IP and Ending IP as the same.

Related Topics:

- Viewing NAT Pools, page 5-29
- Adding NAT Pools, page 5-31
- Editing NAT Pools, page 5-32

Viewing NAT Pools

Figure 5-2 NAT Pools

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To view NAT Pools:

- Step 1 Click Home at the top of the window.
- Step 2 Click Server Farms under Services Dashboard.
- Step 3 Click NAT Pools.

Or:

Step 1 Click Setup from the task bar and click Server Farm in the left-most pane.

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Step 2 Click NAT Pools. The details are displayed on the content pane. The following fields are displayed:

Field	Description	
Name	Name of the NAT Pool.	
Start IP Address	The start IP Address of the NAT Pool.	
End IP Address	The end IP Address of the NAT Pool.	
Mask	The mask IP of the NAT Pool.	
Details	·	
Name	Name of the NAT Pool.	
Start IP Address	The start IP Address of the NAT Pool.	
End IP Address	The end IP Address of the NAT Pool.	
Mask	The mask IP of the NAT Pool.	
Associated Server Farms	·	
Name	Displays the name of the Server Farm that has this NAT pool associated with it.	

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

- Click **Add** to add NAT Pools. For more information, see "Adding NAT Pools" section on page 5-31.
- Select a node and click **Edit** to edit NAT Pools. For more information, see "Editing NAT Pools" section on page 5-32.
- Select a node and click **Delete** to delete the NAT Pool.

Adding NAT Pools

To add NAT Pools:

Step 1	Click Home at the top of the window.
Step 2	Click Server Farms under Services Dashboard.
Step 3	Click NAT Pools.
Step 4	Click the Add button at the end of the content pane.
Step 5	The Add NAT Pool dialog box pops up.
	Or:

- Step 1 Click Setup from the task bar and click Server Farm in the left-most pane.
- Step 2 Click NAT Pools.
- Step 3 Click the Add button at the end of the content pane.
- Step 4 The Add NAT Pool dialog box pops up and the following fields are displayed:

Field	Description
Name	The name of the NAT Pool.
Start IP Address	The start IP Address of the NAT Pool.
End IP Address	The end IP Address of the NAT Pool.
Mask	The mask IP of the NAT Pool.



To create a NAT pool with a single IP address provide the same IP address for the Start and End IP address field.

Editing NAT Pools

To edit NAT Pools:

Step 1	Click Home at the top of the window.		
Step 2	Click Server Farms under Services Dashboard.		
Step 3	Click NAT Pools.		
Step 4	Click the Edit button at the end of the content pane.		
Step 5	The Edit NAT Pool dialog box pops up.		
	Or:		
Step 1	Click Setup from the task bar and click Server Farm in the left-most pane.		

- Step 2 Click NAT Pools.
- Step 3 Click the Edit button at the end of the content pane.
- Step 4 The Edit NAT Pool dialog box pops up and the following fields are displayed:

Field	Description
Name	The name of the NAT Pool. You cannot edit this field.
Start IP Address	The start IP Address of the NAT Pool.
End IP Address	The end IP Address of the NAT Pool.
Mask	The mask IP of the NAT Pool.