



## Configuring Services

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This chapter provides information on configuring the VDS-SB. This chapter covers the following major topics:

- [Configuring Broker Fully Qualified Domain Names \(BFQDNs\)](#), page 4-1
- [Configuring Content Delivery Network \(CDN\)](#), page 4-3

### Configuring Broker Fully Qualified Domain Names (BFQDNs)

Each Service Broker will represent multiple BFQDNs to which client requests will be destined to. Multiple BFQDNs for a Service Broker can be configured via VDSM. The configuration of BFQDNs involves the following steps:

- [Creating BFQDNs](#), page 4-1
- [Assigning Service Brokers to BFQDNs](#), page 4-2
- [Assigning Policy Settings for BFQDN](#), page 4-2

### Creating BFQDNs

To create a BFQDN, do the following:

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- Step 1** Choose **Services > BFQDNs > BFQDNs**. The BFQDNs Table page is displayed.
  - Step 2** Click the **Create New** icon in the task bar. The BFQDNs Definition page is displayed.  
To edit a BFQDNs, click the **Edit** icon next to the BFQDNs name.
  - Step 3** Enter the settings as appropriate. See [Table 4-1](#) for a description of the fields.

**Table 4-1** BFQDNs Definition Fields

Field	Description
Names	<p>Unique name for the BFQDNs.</p> <p><b>Note</b> Spaces are not allowed in the BFQDNs name. The BFQDNs name can consist of alphanumeric characters and the underscore (_) and hyphen (-). The maximum length is 256 characters.</p>
Broker FQDN	Broker Fully Qualified Domain Name. Identifies the domain name of the client request
Redirect Mode	<p>Defines the mode of SB redirecting the requests to CDN. The redirection modes are:</p> <ul style="list-style-type: none"> <li>• Protocol Redirect</li> <li>• DNS IP Redirect</li> <li>• DNS CNAME Redirect</li> <li>• DNS Proxy</li> </ul>
Description	Provides description of the BFQDN

**Step 4** Click **Submit** to save the settings.

To delete a BFQDN from the BFQDN Table page, click the **Edit** icon next to the BFQDN you want to delete, and click the **Delete** icon in the task bar.

## Assigning Service Brokers to BFQDNs

To assign a Service Broker to BFQDNs, do the following:

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- Step 1** Choose **Services > BFQDNs > BFQDNs > Assign Service Brokers**. The Service Brokers Table page is displayed.
- Step 2** To assign a Service Broker to a BFQDN, Click on the blue icon next to the Service Broker name.
- Step 3** Click **Submit** to save the settings.

## Assigning Policy Settings for BFQDN

Multiple BFQDN Policy Javascripts can be uploaded from VDSM GUI. For more information about the configuring of BFQDN Policy javascripts, see the [“Configuring BFQDN Policy File” section on page 5-11](#)

To assign a Policy Setting for BFQDN, do the following:

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- Step 1** Choose **Services > BFQDNs > BFQDNs > Policy Settings**. The BFQDN Policy File Table page is displayed.
- Step 2** To assign a Policy File to a BFQDN, Click on the radio button next to the Policy File URL.

**Step 3** Click **Set File** to save the settings.

## Configuring Content Delivery Network (CDN)

The various CDNs such as Cisco, Level 3, Limelight and Velocix CDN to which the client requests are routed to by the Service Broker based on different criterion can be configured via VDSM. The configuration of CDNs involves the following steps:

- [Creating Content Delivery Networks, page 4-3](#)
- [Assigning CDN Adaptation Policy for CDN, page 4-6](#)
- [Assigning CDN Selection Policy for CDN, page 4-7](#)

## Creating Content Delivery Networks

To create a CDN, do the following:

- Step 1** Choose **Services > Content Delivery Networks > Content Delivery Networks**. The **CDN Table** page is displayed.
- Step 2** Click the **Create New** icon in the task bar. The **CDN Definition** page is displayed. To edit a **CDN**, click the **Edit** icon next to the **CDN** name.
- Step 3** Enter the settings as appropriate depending on the Provider Type. See [Table 4-2](#) for the description of the Cisco CDN definition fields. See [Table 4-3](#) for the description of Generic CDN definition fields. See [Table 4-4](#) for the description of Velocix CDN definition fields.

**Table 4-2** Cisco CDN Definition Fields

Field	Description
Name	Unique name for the CDN. Spaces are not allowed in the CDN name. The CDN name can consist of alphanumeric characters and the underscore (_) and hyphen (-). The maximum length is 256 characters.
Provider Type	Identifies the type of CDN. The dropdown can have the following three values: <ul style="list-style-type: none"> <li>• CISCO</li> <li>• VELOCIX</li> <li>• GENERIC</li> </ul> <p><b>Note</b> While configuring a CDN, Status monitoring is supported for Cisco, and Velocix CDNs (post Release 1.0); thus vendor specific configuration is supported by selecting the Provider Type to CISCO, VELOCIX, or GENERIC.</p>
Enable Status Tracking	Whether or not SB can monitor the CDN status, only supported for CISCO type CDN and VELOCIX CDN.

**Table 4-2 Cisco CDN Definition Fields (continued)**

Field	Description
Poll Interval	Identifies the status polling interval. The range is from 1 to 28800 seconds and the default value is 5 seconds <b>Note</b> This field is enabled only when Enable Status Tracking checkbox is selected
Low Watermark	Identifies the low threshold percentage. The range is from 0 to 100 and the default value is 85 <b>Note</b> This field is enabled only when Enable Status Tracking checkbox is selected
High Watermark	Identifies the high threshold percentage. The range is from 0 to 100 and the default value is 90 <b>Note</b> This field is enabled only when Enable Status Tracking checkbox is selected
RFQDN	CDN's Fully Qualified domain name
Port	Port Number at which the CDN is listening to. The range is from 1 to 65535 and the default value is 80
Service State	CDN Administrative Status. It can have the following values: <ul style="list-style-type: none"> <li>• In Service</li> <li>• Out Of Service</li> </ul> If CDN is set as Out of Service then SB will not redirect requests to CDN
Description	Additional information about the CDN

**Table 4-3 Generic CDN Definition Fields**

Field	Description
Name	Unique name for the CDN. Spaces are not allowed in the CDN name. The CDN name can consist of alphanumeric characters and the underscore (_) and hyphen (-). The maximum length is 256 characters.
Provider Type	Identifies the type of CDN. The dropdown can have the following two values: <ul style="list-style-type: none"> <li>• CISCO</li> <li>• VELOCIX</li> <li>• GENERIC</li> </ul>
RFQDN	CDN's Fully Qualified domain name
Port	Port Number at which the CDN is listening to. The range is from 1 to 65535 and the default value is 80

**Table 4-3 Generic CDN Definition Fields**

Field	Description
Service State	Identifies the CDN Administrative Status. It can have the following values: <ul style="list-style-type: none"> <li>• In Service</li> <li>• Out Of Service</li> </ul> If CDN is set as Out of Service then SB will not redirect requests to CDN
Description	Additional information about the CDN

**Table 4-4 Velocix CDN Definition Fields**

Field	Description
Name	Unique name for the CDN. Spaces are not allowed in the CDN name. The CDN name can consist of alphanumeric characters and the underscore (_) and hyphen (-). The maximum length is 256 characters.
Provider Type	Identifies the type of CDN. The dropdown can have the following two values: <ul style="list-style-type: none"> <li>• CISCO</li> <li>• VELOCIX</li> <li>• GENERIC</li> </ul>
Enable Status Tracking	Whether or not SB monitor CDN status, only supported for CISCO type CDN and VELOCIX CDN. <b>Note</b> SB monitoring of Velocix CDN is supported only from 1.0.1 release.
Poll Interval	Identifies the status polling interval. The range is from 1 to 28800 seconds and the default value is 5 seconds <b>Note</b> This field is enabled only when Enable Status Tracking checkbox is selected
Low Watermark	Identifies the low threshold percentage. The range is from 0 to 100 and the default value is 85 <b>Note</b> This field is enabled only when Enable Status Tracking checkbox is selected
High Watermark	Identifies the high threshold percentage. The range is from 0 to 100 and the default value is 90 <b>Note</b> This field is enabled only when Enable Status Tracking checkbox is selected

**Table 4-4** Velocix CDN Definition Fields

Field	Description
SNMP Agent Address	SNMP Agent IP Address <b>Note</b> This field is enabled only when Enable Status Tracking checkbox is selected and the provider type is VELOCIX CDN
SNMP Port	Port number at which the SNMP Agent is listening to. The range is from 1 to 65535 and the default value is 161 <b>Note</b> This field is enabled only when Enable Status Tracking checkbox is selected and the provider type is VELOCIX CDN
SNMP Community	Identifies the SNMP Community String <b>Note</b> This field is enabled only when Enable Status Tracking checkbox is selected and the provider type is VELOCIX CDN
RFQDN	CDN's Fully Qualified domain name
Port	Port Number at which the CDN is listening to. The range is from 1 to 65535 and the default value is 80
Service State	CDN Administrative Status. It can have the following values: <ul style="list-style-type: none"> <li>• In Service</li> <li>• Out Of Service</li> </ul> If CDN is set as Out of Service then SB will not redirect requests to CDN
Description	Additional information about the CDN

**Step 4** Click **Submit** to save the settings.

To delete a **CDN** from the CDN Table page, click the **Edit** icon next to the **CDN** you want to delete, and click the **Delete** icon in the task bar.

## Assigning CDN Adaptation Policy for CDN

Multiple CDN Adaptation Policy Javascripts can be uploaded from VDSM GUI. For more information about the configuring of CDN Adaptation Policy javascripts, see the [“Configuring CDN Adaptation Policy File” section on page 5-13](#)

To assign a CDN Adaptation Policy for CDN, do the following:

**Step 1** Choose **Services > Content Delivery Networks > Content Delivery Networks**. The Content Delivery Networks table page is displayed.

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- Step 1** Click on the **Edit** icon next to the CDN Name you want to modify. The Content Delivery Network Information Page is displayed.
  - Step 2** Click on **CDN Adaptation Policies**. CDN Adaptation Policy Files table page is displayed.
  - Step 3** To assign a CDN Adaptation Policy File to a CDN, Click on the radio button next to the Adaptation Policy File URL.
  - Step 4** Click **Set File** to save the settings.

## Assigning CDN Selection Policy for CDN

Multiple CDN Selection Policy Javascripts can be uploaded from VDSM GUI. For more information about the configuring of CDN Selection Policy javascripts, see the [“Configuring CDN Selection Policy File” section on page 5-12](#)

To assign a CDN Selection Policy for CDN, do the following:

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- Step 1** Choose **Services > Content Delivery Networks > CDN Selection Policies**. CDN Selection Policy Files table page is displayed.
  - Step 2** To assign a CDN Selection Policy File to a CDN, Click on the radio button next to the Selection Policy File URL.
  - Step 3** Click **Set File** to save the settings.

