



Logging in and Managing the Cisco Nexus Dashboard Data Broker

This chapter has details about logging in and managing the Cisco Nexus Dashboard Data Broker, and overview of the GUI.

Beginning with Release 3.10.1, Cisco Nexus Data Broker (NDB) has been renamed to Cisco Nexus Dashboard Data Broker. However, some instances of NDB are present in this document, to correspond with the GUI, and installation folder structure. References of NDB/ Nexus Data Broker/ Nexus Dashboard Data Broker can be used interchangeably.

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Configuring High Availability Clusters

Cisco Nexus Dashboard Data Broker supports high availability clustering in active/active mode with up to five controllers. To use high availability clustering with Cisco Nexus Dashboard Data Broker, you must edit the `config.ini` file for each instance of Cisco Nexus Dashboard Data Broker.



Note

IPv6 is supported in centralized Nexus Dashboard Data Broker mode only, it is not supported in Embedded mode.



Note

Cisco Nexus Dashboard Data Broker supports only 2 node configuration or odd number node configuration. If you configure even number of nodes, the last node is not included in the cluster formation, ensuring odd number of nodes in a setup.

Table 1: Cluster Operation Status

Cluster Indicator	Cluster Status	Recommendation
Green	Operational	
Yellow	Some of the cluster nodes are not available	Do not make any changes or add to the existing Nexus Dashboard Data Broker configuration.
Red	The node is isolated from the cluster.	Do not make any changes or add to the existing Nexus Dashboard Data Broker configuration. Note: For two node cluster, you need to override in any one of the cluster node only, to ensure regular operation.

Before you begin

- All IP addresses must be reachable and capable of communicating with each other.
- All switches in the cluster must connect to all of the controllers.
- All controllers must have the same HA clustering configuration information in the `config.ini` files.
- All controllers must have the same information in the `xnc/configuration/startup` directory.
- If using cluster passwords, all controllers must have the same password configured in the `xncjgroups.xml` file.

Step 1 Open a command window on one of the instances in the cluster.

Step 2 Navigate to the `xnc/configuration` directory that was created when you installed the software.

Step 3 Use any text editor to open the `config.ini` file.

Step 4 Locate the following text:

```
# HA Clustering configuration (semi-colon-separated IP addresses of all controllers that are part of
the cluster.)
# supernodes=<ip1>;<ip2>;<ip3>;<ipn>
```

Step 5 **Example:**

IPv4 example.

```
# HA Clustering configuration (semi-colon-separated IP addresses of all controllers that are part of
the cluster.)
supernodes=10.1.1.1;10.2.1.1;10.3.1.1;10.4.1.1;10.5.1.1
```

Example:

IPv6 example.

```
# HA Clustering configuration (semi-colon-separated IP addresses of all controllers that are part of
the cluster.)
supernodes=2001:22:11::1;2001:33::44::1;2001:55:66::1
```

Step 6 Save the file and exit the editor.

Password Protecting High Availability Clusters

Step 1 Open a command window on one of the instances in the cluster.

Step 2 Navigate to the `xnc/configuration` directory.

Step 3 Use any text editor to open the `xncjgroups.xml` file.

Step 4 Locate the following text:

```
<!-- <AUTH auth_class="org.jgroups.auth.MD5Token" auth_value="ciscoXNC" token_hash="MD5"></AUTH> -->
```

Step 5 Remove the comments from the AUTH line.

Example:

```
<AUTH auth_class="org.jgroups.auth.MD5Token" auth_value="ciscoXNC" token_hash="MD5"></AUTH>
```

Step 6 (Optional) Change the password in the `auth_value` attribute.

By default, the cluster is protected with the password "ciscoXNC". You can change this password to whatever value you want, you need make the similar changes on all machines in the cluster.

Step 7 Save the file and exit the editor.

Logging in to Cisco Nexus Dashboard Data Broker GUI

You can login to the Cisco Nexus Data Broher GUI using HTTPS. The default HTTPS web link for the Cisco Nexus Dashboard Data Broker GUI is `https://IP_address:8443/monitor`.



Note You must manually specify the `https://` protocol in your web browser. The controller must also be configured for HTTPS.

Step 1 In your web browser, enter the Cisco Nexus Dashboard Data Broker web link.

Step 2 On the launch page, do the following:

a) Enter your username and password.

The default username and password is admin/admin.

b) Click **LOGIN**.

Changing Controller Access

An unencrypted (HTTP) access to the GUI and the API to the controller access is disabled by default. You cannot access the controller with the URL `http://<host>:8080`.

To change the controller access to HTTP, complete the following steps:

Before you begin

Cisco Nexus Dashboard Data Broker is shipped with a certificate for the HTTPS connection between the Cisco Nexus Dashboard Data Broker and a browser. You can change to a different certificate.

The script **generateWebUICertificate.sh** is available in the **ndb/configuration** folder. If you execute this script, it moves the shipped certificate to **old_keystore** and the new certificate is generated in **keystore**. On the next Cisco Nexus Dashboard Data Broker restart, this new certificate is used.

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- Step 1** Remove the comment character from the connector for port 8080 in the `tomcat-server.xml` files in the configuration directory as displayed in the following example:

```
<Service name="Catalina">
<!--
<Connector port="8080" protocol="HTTP/1.1"
connectionTimeout="20000"
redirectPort="8443" server="Cisco NDB" enableLookups="false" />
-->
<Connector port="8443" protocol="HTTP/1.1" SSLEnabled="true"
scheme="https" secure="true"
clientAuth="false" sslProtocol="TLS"
keystoreFile="configuration/keystore"
keystorePass="ciscondb" server="Cisco NDB"
connectionTimeout="60000" enableLookups="false" />
```

- Step 2** Restart the controller.
-

Cisco Nexus Dashboard Data Broker GUI Overview

The Cisco Nexus Dashboard Data Broker GUI contains the following tabs and each of these tabs are discussed in detail (as separate chapters) in the subsequent pages of this guide.

- [Dashboard](#)
- [Topology](#)
- [Devices](#)
- [Connections](#)
- [Components](#)
- [Sessions](#)
- [Statistics](#)

- [Troubleshooting](#)
- [Administration](#)

For details about the header icons, see [Header](#).

Components of a screen of the Cisco Nexus Dashboard Data Broker

When you click a tab/ sub-tab, the current information of the tab is displayed in a table.

A typical screen representing one of the tabs of the Release 3.10.1 Cisco Nexus Dashboard Data Broker GUI is displayed here:

The screenshot shows the Cisco Nexus Dashboard Data Broker GUI. The header includes the Cisco logo, 'Nexus Data Broker', and navigation options like 'Stand-alone' and 'Slice'. The main area displays a table of filters. The table has columns: In Use, Default, Filter Name, Bidirectional, EtherType, Protocol, AdvancedFilter(s), Created By, and Last Modified By. The table lists several filters, including 'Default-Match-all', 'Default-Match-ARP', 'Default-Match-ICMP', 'Default-Match-ICM...', and 'Default-Match-IP'. A 'Filter by attributes' bar is at the top of the table. A 'Rows' dropdown is at the bottom left, and a 'Page' indicator is at the bottom right. Numbered callouts 1 through 6 highlight specific UI elements: 1 points to the 'Filters' tab name, 2 points to the 'Filter by attributes' bar, 3 points to the 'Refresh' icon, 4 points to the 'Column Customization' icon, 5 points to the 'Actions' button, and 6 points to the 'Rows' dropdown.

- 1—Name of the tab/sub-tab.
- 2—Use the *Filter by attributes* bar to filter the displayed table which has the details of the selected tab. Choose the attribute, operator and filter-value.
You can also filter the displayed table based on the *filter* icon that appears when you hover over an element of the table.
- 3—Use the *Refresh* icon to refresh the displayed details and get the latest information about the tab/ sub-tab.
- 4—Use the *Column Customization* icon to select the columns you want to see in the displayed table.
- 5—Click the **Actions** button to see the available actions for the screen.
- 6—From the **Rows** drop-down list, select the number of rows to be displayed in the table.

Header

This section provides an overview of the Cisco Nexus Dashboard Data Broker GUI Header (upper right corner) icons:

Table 2: Cisco Nexus Dashboard Data Broker Header Icons

Icon	Description
Cluster	Displays the role of the current Nexus Dashboard Data Broker controller instance- either Primary (P) or Member (M). The IP addresses of the primary and member(s) are displayed; the IP address of the primary cluster is denoted with an (*). If Nexus Dashboard Data Broker controller is not in a cluster, <i>Stand-alone</i> is displayed.
Slice	Displays the slice name the user is currently logged in to. From the drop-down list, select another slice to change the network view.
Figure 1: Create 	Provides quick navigation to often-used configuration and administration procedures.
Figure 2: Alarm 	Displays the number of inconsistent NDB devices. Click the Alarm icon; you are directed to the Flow Management tab for details.
Figure 3: Help Menu-Bar 	Displays the following options: • What's New—Displays new features for the latest release. • Help—Displays online help content.

Icon	Description
Figure 4: System Tools Menu-Bar 	Provides the following options: • Download Log—Enables you to download log files to your local machine. • Northbound API—takes you to the Swagger UI for details about Nexus Dashboard Data Broker REST APIs. • Session Timeout—Enables you to set the session timeout value. • About Nexus Dashboard Data Broker—Displays Nexus Dashboard Data Broker details such as, build and version.
Figure 5: User Profile Menu-Bar 	Provides the following options: • Welcome User—Displays the current user of the GUI. • Change Password—Enables you to change the password of the current user. • Logout—Enables you to logout of the GUI.

Cisco Nexus Dashboard Data Broker as a service on Cisco APIC and Cisco Nexus Dashboard

Cisco Nexus Dashboard Data Broker, Release 3.10.1 is available as a service on Cisco APIC and Cisco Nexus Dashboard. For details about relevant deployment procedures, see *Cisco Nexus Dashboard Data Broker Deployment Guide, Release 3.10.1*.

Cisco Nexus Dashboard Data Broker, 3.10.1, can be hosted on Cisco APIC. The host APIC is auto-discovered by the Cisco Nexus Dashboard Data Broker, and is displayed on the Span devices screen. See [Span Devices](#) for more details.

Components Suppressed on the Cisco Nexus Dashboard Data Broker GUI

The following components are suppressed on the Cisco Nexus Dashboard Data Broker GUI when it is accessed as a service via Cisco APIC/ Nexus Dashboard.

- **AAA**— Due to single sign-on, there are no separate credentials required for logging in to Nexus Dashboard Data Broker from APIC or Nexus Dashboard.
- **User Management**— No separate user management.
- **Cluster information**:
 - Nexus Dashboard Data Broker GUI can be loaded from any one of the clusters.
 - Cluster status is displayed in the Header.

- Session Timeout—No separate option to set the session timeout.
- Change Password—No separate option to change the user password.
- Login/ Logout—No separate login/logout is required. You can invoke the Nexus Dashboard Data Broker GUI from the Cisco APIC/ Nexus Dashboard GUI.

**Note**

After you are logged in to the Nexus Dashboard Data Broker GUI , the standard behavior is reflected.

For collecting Nexus Dashboard Data Broker logs from Cisco Nexus Dashboard or Cisco APIC, see [Collecting Nexus Dashboard Data Broker Logs from Cisco Nexus Dashboard](#) and [Collecting Nexus Dashboard Data Broker Logs from Cisco APIC](#), respectively.