



Logging in and Managing Cisco Nexus Data Broker

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Configuring Cisco Nexus Data Broker

Configuring High Availability Clusters

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. See [Password Protecting the High Availability Clusters, on page 2](#).

Procedure

- 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 the High Availability Clusters

Procedure

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, if you make the same change on all machines in the cluster.

Step 7 Save the file and exit the editor.

Editing the Configuration Files for Cisco Nexus Switches

Cisco Nexus Data Broker has the ability to periodically rediscover Cisco Nexus switch inventory and the topology so that the topology and inventory is in sync. Cisco Nexus data broker periodically rediscovers the switch inventory and the topology interconnection and status. This information is updated in the GUI depending on the status. You can configure the rediscovery interval and the default value is 60 seconds.

Procedure

	Command or Action	Purpose																																																																				
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	Command or Action	Purpose
		Note Predefined values are the values that Cisco includes in the <code>config.ini</code> file that is shipped with Cisco Nexus Data Broker. A em dash ("—") in this column of the table means that unless you explicitly update the value, the minimum value will be used.
Step 4	Save the file and exit the editor.	
Step 5	Restart Cisco Nexus Data Broker.	

Configuring User Roles for Edge Ports

To enable RBAC for the App-User role, follow these steps:

Procedure

-
- Step 1** Open the `config.ini` file for editing.
 - Step 2** Locate the line `# Enforce restriction on edge/tap ports user can capture` (default `false`).
 - Step 3** Remove the comment character from the following line:
`monitor.strictAuthorization=true`
 - Step 4** Save your work and close the file.
-

Logging in to the Cisco Nexus Data Broker GUI

You can log into the Cisco Nexus Data Broker using HTTPS. The default HTTPS web link for the Cisco Nexus Data Broker GUI is `https://Nexus_Data_Broker_IP:8443/monitor`.



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

Procedure

-
- Step 1** In your web browser, enter the Cisco Nexus 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 **Log In**.

Changing the Controller Access to HTTP

Starting with Cisco Nexus Data Broker Release 2.1, 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`.

If you want to change the controller access to HTTP, complete the following steps:

Procedure

	Command or Action	Purpose
Step 1	<p>Remove the comment character from the connector for port 8080 in the <code>tomcat-server.xml</code> file in the configuration directory as displayed in the following example:</p> <p>Example:</p> <pre><Service name="Catalina"> <!-- <Connector port="8080" protocol="HTTP/1.1" connectionTimeout="20000" redirectPort="8443" server="Cisco XNC" enableLookups="false" /> --> <Connector port="8443" protocol="HTTP/1.1" SSLEnabled="true" scheme="https" secure="true" clientAuth="false" sslProtocol="TLS" keystoreFile="configuration/keystore" keystorePass="ciscoxnc" server="Cisco XNC" connectionTimeout="60000" enableLookups="false" /></pre> <p>Example:</p> <p>Remove the comment character as displayed in the following example:</p> <pre><Service name="Catalina"> <Connector port="8080" protocol="HTTP/1.1" connectionTimeout="20000" redirectPort="8443" server="Cisco XNC" enableLookups="false" /></pre>	

	Command or Action	Purpose
	<pre><Connector port="8443" protocol="HTTP/1.1" SSLEnabled="true" scheme="https" secure="true" clientAuth="false" sslProtocol="TLS" keystoreFile="configuration/keystore" keystorePass="ciscoxnc" server="Cisco XNC" connectionTimeout="60000" enableLookups="false" /></pre>	
Step 2	Restart the controller.	

Cisco Nexus Data Broker GUI Overview

The Cisco Nexus Data Broker Release GUI contains the following tabs:

- Cisco Nexus Data Broker, Release Version
- **Configuration** tab at the top of the screen
- **Administration** tab at the top of the screen
- **Default** tab displaying the switches in use
- **Save** button—Enables you to save any additions or changes you make in Cisco Nexus Data Broker.



Note You should always click **Save** after making any configuration changes.

- The **Online help** button—Provides access to the online help for the current page.
- Bookmarks
- Administrator Details

The **Configuration** tab contains the following items:

- Topology
- Port Definitions
- Port Groups
- Monitoring Devices
- Service Nodes
- Filters
- Connections
- Redirections

- Statistics
- SPAN Sessions

The **Administration** tab contains the following items:

- Device Management
- Devices
- Flows
- Troubleshoot
- Consistency Check
- System Management
- User Management
- System

Topology Tools

The left side of the topology pane contains a zoom slider that allows you increase or decrease the size of the topology diagram. You can also increase or decrease the size of the topology diagram by scrolling up or down, respectively, with your mouse wheel.

You can move the entire topology diagram, a single topology element, or a node group. To move the diagram, an element, or a node group, click it and drag it.

To view information about a node or an edge port, hover over the node or edge port icon with your mouse. The information displayed depends on the device you choose.

To view information about a path, hover over the path in the topology diagram.

To view information about a filter, hover over the **Name** of the filter in the **Filters** tab.

Saving Configuration Changes

In Cisco Nexus Data Broker, Release 3.2.0 the auto-save configuration option is added. You can save the configuration changes, but it is not required. For example, if you configure Edge-SPAN, monitor the device, or configure any other functionality in Cisco Nexus Data Broker, it is saved automatically.

Procedure

On the menu bar, click **Save**.
