

Chapter 7

Managing the Juniper Networks Database with the C-Web Interface

This chapter describes the Juniper Networks database and how to configure it. Topics include:

- Enabling the Juniper Networks Database to Run in Standalone Mode with the C-Web Interface on page 48
- Configuring the Juniper Networks Database to Run in Community Mode with the C-Web Interface on page 48
- Securing the Juniper Networks Database with the C-Web Interface on page 49
- Adding a Juniper Networks Database to an Established Community with the C-Web Interface on page 49
- Promoting a Secondary Database to a Primary Role in a Configuration with One Primary Database with the C-Web Interface on page 51
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- Securing Communications Between the Juniper Networks Database and SRC Components with the C-Web Interface on page 54
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Enabling the Juniper Networks Database to Run in Standalone Mode with the C-Web Interface

When you run a Juniper Networks database in standalone mode, the database does not communicate with other Juniper Networks databases.

To enable a Juniper Networks database to run in standalone mode:

1. Click **Configure**, expand **System > LDAP**, and then click **Server**.

The Server pane appears.

2. In the Server pane, select the **Standalone** check box, and then click **Apply**.

Related Topics

- *SRC-PE Getting Started Guide, Chapter 19, Overview of the Juniper Networks Database*
- *Configuring the Juniper Networks Database to Run in Community Mode with the C-Web Interface on page 48*
- *Securing the Juniper Networks Database with the C-Web Interface on page 49*

Configuring the Juniper Networks Database to Run in Community Mode with the C-Web Interface

You configure a Juniper Networks database in community mode to setup redundancy with other Juniper Networks databases.

To configure the Juniper Networks database to run in community mode:

1. Click **Configure**, expand **System > LDAP**, and then click **Server**.

The Server pane appears.

2. In the Server pane, clear the **Standalone** check box, and click **Apply**.
3. In the side pane, click **Commit**.
4. Expand **Server**, and click **Community**.

The Community pane appears.

5. Click **Create**, enter information as described in the Help text in the main pane, and then click **Apply**.

Related Topics

- *SRC-PE Getting Started Guide, Chapter 19, Overview of the Juniper Networks Database*
- *Adding a Juniper Networks Database to an Established Community with the C-Web Interface on page 49*

- *Enabling the Juniper Networks Database to Run in Standalone Mode with the C-Web Interface on page 48*
- *Securing the Juniper Networks Database with the C-Web Interface on page 49*

Securing the Juniper Networks Database with the C-Web Interface

You can secure connections to a Juniper Networks database by:

- Allowing only Secure Lightweight Directory Access Protocol (LDAPS) connections from remote systems. In this case, both database replication and remote SRC components connect through LDAPS. Restricting all remote connections to LDAPS is supported only on C-series Controllers.
- Allowing only LDAPS connections for database replication, but LDAP or LDAPS connections for other applications. In this case, remote SRC components can connect through LDAP or LDAPS. This form of security is supported only on C-series Controllers.

To secure connections to the Juniper Networks database:

1. Click **Configure**, expand **System > LDAP > Server**, and then click **Security**.

The Security pane appears.

2. Click **Create**, enter information as described in the Help text on the main pane, and then click **Apply**.

Related Topics

- *SRC-PE Getting Started Guide, Chapter 19, Overview of the Juniper Networks Database*

Adding a Juniper Networks Database to an Established Community with the C-Web Interface

When you add a Juniper Networks database to an existing community, make sure that you configure the primary neighbor relationships from the existing primary databases before you enable the new database.



If you assign a primary role to a database new to an existing community before you configure the neighbor relationships from existing community databases that have a primary role, you can lose data on neighbor databases that already have a primary role.

To add a Juniper Networks database to an existing community:

1. On existing databases that have a primary role, configure neighbor relationships for the new database.

For example, configure the new server C-new as a primary neighbors on each of the existing servers C1 and C2:

- a. Click **Configure**, expand System **LDAP > Server**, and then click **Community**.

The Community pane appears.

- b. In the Primary Neighbors box, add the new server C-new, click **Apply**.
- c. In the side pane, click **Commit**.

2. On the new database, enable the primary role and configure primary neighbors.

For example, to enable the database in primary role and configure C1 and C2 as primary neighbors:

- a. Click **Configure**, expand System **LDAP > Server**, and then click **Community**.

The Community pane appears.

- b. If the configuration is not visible, click **Create**.
- c. In the Role box, select **Primary**.
- d. In the Primary Neighbors box, add the C1 and C2 servers, and click **Apply**.
- e. In the side pane, click **Commit**.

Related Topics

- *SRC-PE Getting Started Guide, Chapter 19, Overview of the Juniper Networks Database*
- *Configuring the Juniper Networks Database to Run in Community Mode with the C-Web Interface on page 48*

Promoting a Secondary Database to a Primary Role in a Configuration with One Primary Database with the C-Web Interface

Although all communities should have two databases with a primary role, if a community includes one database assigned a primary role and another database assigned a secondary role, promote the database assigned a secondary role to a primary role.

To promote a Juniper Networks database from a secondary role to a primary role:

1. On the database that has a secondary role, set the role to primary.
 - a. Click **Configure**, expand System **LDAP > Server**, and then click **Community**.
The Community pane appears.
 - b. In the Primary Neighbors box, verify whether the other database is listed as a primary neighbor. If it is not, add it.
 - c. In the Role box, select **Primary**, and click **Apply**.
 - d. In the side pane, click **Commit**.
2. On the existing database that has a primary role, remove the neighbor as secondary and add it as primary.
 - a. Click **Configure**, expand System **LDAP > Server**, and then click **Community**.
The Community pane appears.
 - b. In the Secondary Neighbors box, remove the database listed.
 - c. In the Primary Neighbors box, add the other database in the community, and click **Apply**.
 - d. In the side pane, click **Commit**.
3. (Optional if you have two databases with a primary role in a community) Switch the role of the database that originally had a secondary role back to secondary.
 - a. Click **Configure**, expand System **LDAP > Server**, and then click **Community**.
The Community pane appears.
 - b. In the Primary Neighbors box, remove the database that is to become the secondary database.
 - c. In the Secondary Neighbors box, add the database, and click **Apply**.
 - d. In the side pane, click **Commit**.

Related Topics

- *SRC-PE Getting Started Guide, Chapter 19, Overview of the Juniper Networks Database*
- *Configuring the Juniper Networks Database to Run in Community Mode with the C-Web Interface on page 48*

Updating Data on a Juniper Networks Database with the C-Web Interface

After you bring a Juniper Networks database online after some period of inaccessibility, update the database with any database changes that occurred while the database was offline.

To update data in a neighbor in a community of Juniper Networks databases:

1. Click **Manage > Request > System > LDAP > Community > Force Update**.

The Force Update page appears.

2. In the Neighbor box, enter the name of the neighbor to be updated.

Related Topics

- *SRC-PE Monitoring and Troubleshooting Guide, Chapter 14, Monitoring the System with the C-Web Interface*

Synchronizing Data on a Juniper Networks Database with the C-Web Interface

You can initialize a Juniper Networks database with data from a neighbor. This process also removes any existing data in the database.

To replace data with data from a neighbor (for example, neighbor1):

1. Click **Manage > Request > System > LDAP > Community > Initialize**.

The Initialize page appears.

2. In the Neighbor box, enter the name of the neighbor to be synchronized.

Related Topics

- *Updating Data on a Juniper Networks Database with the C-Web Interface on page 52*
- *SRC-PE Monitoring and Troubleshooting Guide, Chapter 14, Monitoring the System with the C-Web Interface*

Loading Sample Data in to a Juniper Networks Database with the C-Web Interface

The SRC software provides sample data that you can load into the Juniper Networks database. Typically, this data is used for testing or for demonstration purposes. You can load sample data for:

- Enterprise service portals
- SNMP traps for the SNMP agent
- Sample applications:
 - Dynamic Service Activator application (in the SRC Application Library)
 - Intrusion Detection and Prevention (IDP) integration application (unsupported sample application in the SRC Application Library)
 - Instant Virtual Extremity (IVE) Host Checker integration application (unsupported sample application in the SRC Application Library)
 - Traffic-Mirroring Application (unsupported sample application in the SRC Application Library)
 - Sample residential portal (unsupported sample application in the SRC Application Library)
 - Equipment registration mode
 - Internet service provider (ISP) mode

Loading sample data is not required to run the SRC software.

To load sample data from the C-Web interface:

1. Click **Manage > Request > System > LDAP > Load**.

The Load page appears.

2. In the Data box, select the component for which to load sample data, and click **OK**.

Related Topics

- *SRC-PE Getting Started Guide, Chapter 19, Overview of the Juniper Networks Database*

Securing Communications Between the Juniper Networks Database and SRC Components with the C-Web Interface

Communications between SRC components and the Juniper Networks database use password authentication. You can change the default passwords for the following software components to ensure that communications are secure.

- License server
- NIC
- SAE
- SRC CLI
- Configuration for SRC components other than the CLI and the NIC

To change the administrative password for the Juniper Networks database:

1. Click **Manage > Request > System > LDAP > Change Admin Password**.

The Change Admin Password page appears.

2. In the New Password box, enter the new password.

To change a component password:

1. Click **Manage > Request > System > LDAP > Change Component Password**.

The Change Component Password page appears.

2. Enter information as described in the Help text in the main pane, and click **Apply**.

Related Topics

- *Securing Communications Between the Juniper Networks Database and SRC Components with the C-Web Interface on page 54*

Recovering Data in a Community with One Primary Database and One Secondary Database with the C-Web Interface

In an environment in which a community includes one database assigned a primary role and another database assigned a secondary role, and the primary database is not operative, you must promote the secondary database to primary and reconfigure the inoperative primary database.

1. On the database that has a secondary role, set the role to primary.
 - a. Click **Configure**, expand **System > LDAP > Server**, and then click **Community**.
The Community pane appears.
 - b. In the Role box, select **Primary**, click **Apply**.
 - c. In the side pane, click **Commit**.
2. On the existing database that has a primary role, remove the neighbor as secondary and add it as primary.

- a. Click **Configure**, and expand **System > LDAP > Server > Community**.

The Community pane appears.

- b. In the Secondary Neighbors box, remove the database that is to become the primary database.
- c. In the Primary Neighbors box, add the database, and click **Apply**.
- d. In the side pane, click **Commit**.

Related Topics

- *SRC-PE Getting Started Guide, Chapter 20, Managing the Juniper Networks Database with the SRC CLI*
- *SRC-PE Monitoring and Troubleshooting Guide, Chapter 14, Monitoring the System with the C-Web Interface*

