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# Deployment Guide

Cassandra Security

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# Cassandra Security

## Important

Starting in 9.0.005.15, Cassandra support is deprecated in Genesys Co-browse and **Redis** is the default database for new customers. Support for Cassandra will be discontinued in a later release.

This article describes how to tune secure access from your Co-browse Server to external Cassandra. Starting from 8.5.1, you can secure the following when using external Cassandra:

- **Secure the access interfaces** using authentication and authorization.
- Secure network traffic using TLS.

## Securing Access Interfaces

You can secure your access interfaces based on an authentication and authorization scheme. In other words, Cassandra needs to know:

- **Authentication**—who is trying to access the system?
- **Authorization**—is the user allowed to access the system and what data can the user access?

With the default setup, anybody can access any data. To secure access interfaces from Co-browse Server to external Cassandra, you must:

1. **Turn on authentication and authorization in your Cassandra configuration.**
2. **Set up a new Cassandra user to access the Co-browse keyspace.**
3. **Specify Cassandra user settings in the Resource Access Point configuration.**

## Configure Cassandra to Use Authentication and Authorization

Configure Cassandra by editing **<Cassandra installation directory>/conf/cassandra.yaml**.

1. Set the **authenticator** option to PasswordAuthenticator. It's set to AllowAllAuthenticator by default.
2. Set the **authorizer** option to CassandraAuthorizer. It's set to AllowAllAuthorizer by default.
3. Optionally, tune your **system\_auth** keyspace replication according to the [DataStax system\\_auth documentation](#). Note that the validity period for permissions caching is 2000 ms. For more information about Cassandra permissions, see the [DataStax Object permissions documentation](#).
4. Restart your Cassandra node.

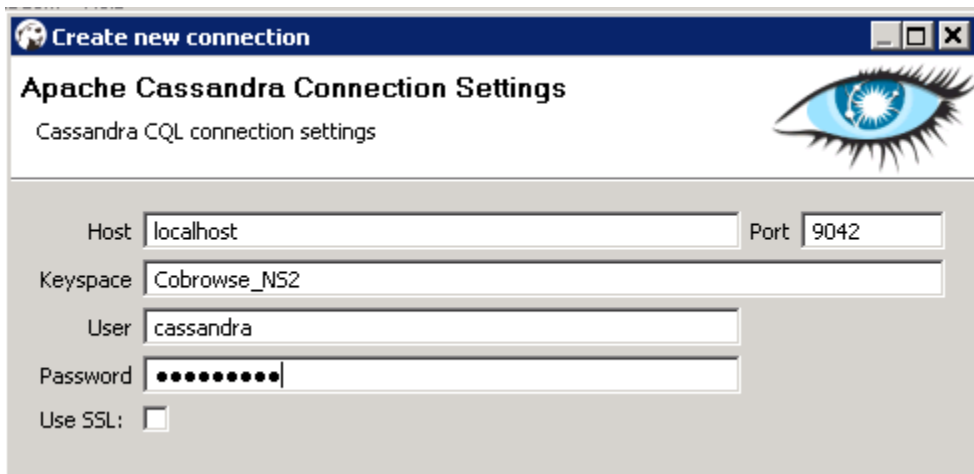
## Set Up a New Cassandra User

To set up a new Cassandra user, use a Cassandra client tool like **dbeaver** or **cqlsh**:

1. Start by connecting to Cassandra using the default superuser name and password, **cassandra/cassandra**. The following examples use dbeaver and cqlsh as examples but you can use a different Cassandra client:

- **dbeaver:**

Navigate to **New connection > Cassandra CQL > Apache Cassandra Connection Settings**. Specify the **Host** and **Keyspace**. Use your superuser login for **User** and **Password**.



- **cqlsh:**

Start cqlsh using the default superuser name and password:

```
./cqlsh -u cassandra -p cassandra
```

2. Use the **CREATE USER** CQL statement to create another superuser. For example:

```
CREATE USER IF NOT EXISTS <new_cobrowse_user> WITH PASSWORD 'new_password' SUPERUSER
```

3. Use the **GRANT** CQL statement to grant access permissions. For example:

```
GRANT ALL PERMISSIONS ON <cobrowse_keyspace> TO <new_cobrowse_user>
```

CQL also supports the authorization statements **GRANT**, **LIST PERMISSIONS**, and **REVOKE**.

## Deactivate Default Superuser

Optionally, you can now deactivate the default superuser **cassandra**:

1. Login as your new superuser.
2. Change the password for the **cassandra** user.
3. Turn off the superuser status for the **cassandra** user.

## Configure Resource Access Point

Use the login information of the **superuser you created** to configure the Cassandra Resource Access

Point:

1. Open or create a **cassandraClient** configuration options section.
2. Set the **userName** and **password** to your superuser's login.

The screenshot shows the Genesys Administrator web interface. The top navigation bar includes the Genesys logo, the title "Genesys Administrator", a tenant dropdown set to "Environment", and links for "New Window", "Log out", and settings. The main interface has a sidebar with a "PROVISIONING" tab selected, showing a tree view of the environment. The main content area displays the configuration for "CasRAP\_2" under the "Applications" section. The "Options" tab is active, showing a table of configuration items. The table has columns for Name, Section, Option, and Value. There are three items listed under the "cassandraClient" section: "password" (masked with asterisks), "transportCompression" (set to "LZ4"), and "userName" (set to "cobrowse\_user"). Below this, a "resource" section shows a single item "type" set to "cassandra". The bottom of the interface shows pagination information: "Page 1 of 1" and "Displaying objects 1 - 4 of 4".

Name	Section	Option	Value
cassandraClient/password	cassandraClient	password	*****
cassandraClient/transportCompression	cassandraClient	transportCompre...	LZ4
cassandraClient/userName	cassandraClient	userName	cobrowse_user

resource/type	resource	type	cassandra
resource/type	resource	type	cassandra