

Enabling Fine-grained Access Control for Hue in Cloudera Data Warehouse for AWS environments (Preview)

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Fine-grained access control management using RAZ

Hue offers you the capability to browse S3 buckets, upload files to S3, and create tables by importing files from S3. With Ranger Authorization (RAZ), you can grant fine-grained access to per-user home directories.

Note: If you have enabled RAZ while registering your AWS environment with CDP, then Hue uses RAZ as the default mechanism for enabling the S3 File Browser.

Enabling the S3 File Browser using RAZ is under technical preview and is not recommended for production use. Cloudera recommends that you explore this feature in development or test environments.

Prerequisites for enabling the S3 File Browser using RAZ

Meet the prerequisites listed in this section before you enable the S3 File Browser in Hue using RAZ.

Steps

1. Follow the instructions listed in "[Introduction to RAZ on AWS environments](#)" to register an AWS environment with the "**Enable Ranger authorization for AWS S3**" option enabled. You can use the CDP web interface or the CDP CLI to complete this task.
Important: You must enable RAZ while registering your environment with CDP.
2. Log in to the CDP Management Console as a DWAdmin or DWUser and go to the Cloudera Data Warehouse service.
3. From the Database Catalog edit option, click **Open Ranger**.
4. Create the following Ranger policies:

- a. **Hadoop SQL** policy (`all - database, table, column, all - url`).

You must grant permissions to individual users or groups in these Ranger policies. To grant permissions to all users, you can specify `{USER}` in the **Permission** section.

- b. **S3 (cm_S3)** policy (`Default: User Home`)

5. You must also grant appropriate permissions to the users in CDP User Management Service (UMS). For example, EnvironmentUser.

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6. Create a “user” directory within your S3 bucket and also create sub-directories for individual users. For example, `MY-S3-BKT/user/csso_john.smith`, `MY-S3-BKT/user/csso_nick.fry`, and so on. Specify the bucket name in the **S3 Bucket** field and the directory path in the **Path** field of the **cm_S3** Ranger policy.

Enabling S3 File Browser in Hue using RAZ

The S3 File Browser in Hue is enabled by default. However, you must set the path to your S3 directory in the **hue-safety-valve** field to avoid a 403 error when you click on the S3 File Browser.

Steps

1. Log in to the CDP Management Console as a DWAdmin or DWUser and go to the Cloudera Data Warehouse service.
2. Click on the **More** icon on your Virtual Warehouse and click **Edit**.
3. Go to **CONFIGURATION > Hue** and select **hue-safety-valve** from the **Configuration files** drop-down menu.
4. Add the path to your S3 bucket under the [filebrowser] section as follows::

```
[filebrowser]
```

```
remote_storage_home=s3a://[***S3-BUCKET-NAME***]/user
```

5. Click **APPLY**.
6. Restart the Virtual Warehouse.

You should be able to view the icon for the S3 File Browser on the left assist panel on the Hue web interface.