

## Db2 CDC to Iceberg

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# Contents

<b>ReadyFlow: Db2 CDC to Iceberg [Technical Preview].....</b>	<b>4</b>
<b>Prerequisites.....</b>	<b>4</b>
<b>List of required configuration parameters for the Db2 CDC to Iceberg [Technical Preview] ReadyFlow.....</b>	<b>6</b>

## ReadyFlow: Db2 CDC to Iceberg [Technical Preview]

You can use the Db2 CDC to Iceberg [Technical Preview] ReadyFlow to retrieve CDC events from a Db2 source table and stream them into Iceberg.

This ReadyFlow uses Debezium to retrieve CDC events (INSERT, UPDATE, DELETE) from a Db2 source table to stream the events to an Iceberg destination table. Failed Iceberg write operations are retried automatically to handle transient issues. Define a KPI on the failure\_WriteIcebergTable connection to monitor failed write operations.



**Note:** This ReadyFlow is considered Technical Preview and is not designed for production use.



**Note:**

This ReadyFlow does not support schema changes or primary key field updates. The destination table must be Iceberg format v2. Make sure to assign the correct permissions for the Iceberg destination table to the specified CDP Workload User.

Db2 CDC to Iceberg [Technical Preview] ReadyFlow details	
Source	Db2 Table
Source Format	Db2 Table
Destination	Iceberg
Destination Format	Parquet

## Prerequisites

Learn how to collect the information you need to deploy the Db2 CDC to Iceberg [Technical Preview] ReadyFlow, and meet other prerequisites.

### For your data ingest source



**Note:** Do not change primary key field values in your source table after configuring the ReadyFlow. Doing so will cause the ReadyFlow to reject updates.



**Note:** You need to take care of field case sensitivity when defining source and destination table structure.

- You have obtained the Db2 database server hostname and port.
- You have obtained the Db2 database name, schema name, and table name. Take note of the table structure, specifically field case sensitivity.
- You have obtained a username and password to access the Db2 table.
- You have obtained the Db2 database driver jar file.
- You have performed the [Db2 setup tasks required to run Debezium](#).

### For DataFlow

- You have enabled DataFlow for an environment.

For information on how to enable DataFlow for an environment, see [Enabling DataFlow for an Environment](#).

- You have created a Machine User to use as the CDP Workload User.

- You have given the CDP Workload User the EnvironmentUser role.
  1. From the Management Console, go to the environment for which DataFlow is enabled.
  2. From the Actions drop down, click Manage Access.
  3. Identify the user you want to use as a Workload User.

**Note:**

The CDP Workload User can be a machine user or your own user name. It is best practice to create a dedicated Machine user for this.


4. Give that user EnvironmentUser role.
- You have synchronized your user to the CDP Public Cloud environment that you enabled for DataFlow.

For information on how to synchronize your user to FreeIPA, see [Performing User Sync](#).

- You have granted your CDP user the DFCatalogAdmin and DFFlowAdmin roles to enable your user to add the ReadyFlow to the Catalog and deploy the flow definition.
  1. Give a user permission to add the ReadyFlow to the Catalog.
    - a. From the Management Console, click User Management.
    - b. Enter the name of the user or group you wish to authorize in the Search field.
    - c. Select the user or group from the list that displays.
    - d. Click Roles Update Roles .
    - e. From Update Roles, select DFCatalogAdmin and click Update.



**Note:** If the ReadyFlow is already in the Catalog, then you can give your user just the DFCatalogViewer role.

2. Give your user or group permission to deploy flow definitions.
  - a. From the Management Console, click Environments to display the Environment List page.
  - b. Select the environment to which you want your user or group to deploy flow definitions.
  - c. Click Actions Manage Access to display the Environment Access page.
  - d. Enter the name of your user or group you wish to authorize in the Search field.
  - e. Select your user or group and click Update Roles.
  - f. Select DFFlowAdmin from the list of roles.
  - g. Click Update Roles.
3. Give your user or group access to the Project where the ReadyFlow will be deployed.
  - a. Go to DataFlow Projects .
  - b. Select the project where you want to manage access rights and click  More Manage Access .
4. Start typing the name of the user or group you want to add and select them from the list.
5. Select the Resource Roles you want to grant.
6. Click Update Roles.
7. Click Synchronize Users.

### For your data ingest target

- In Cloudera Data Warehouse, you have activated the same environment for which DataFlow has been enabled. This will create a default database catalog. For more information, see [Activating an AWS environment from CDW](#) or [Activating Azure environments](#).
- You have created a Hive Virtual Warehouse referencing the default database catalog. For more information, see [Creating your first Virtual Warehouse](#).
- You have created the Iceberg table that you want to ingest data into, running in your Hive Virtual Warehouse. For more information, see [Iceberg table creation from Hive](#).

### Related Concepts

[List of required configuration parameters for the Db2 CDC to Iceberg \[Technical Preview\] ReadyFlow](#)

## List of required configuration parameters for the Db2 CDC to Iceberg [Technical Preview] ReadyFlow

When deploying the Db2 CDC to Iceberg [Technical Preview] ReadyFlow, you have to provide the following parameters. Use the information you collected in *Prerequisites*.

**Table 1: Db2 CDC to Iceberg [Technical Preview] ReadyFlow configuration parameters**

Parameter Name	Description
CDP Workload User	Specify the CDP machine user or workload user name that you want to use to authenticate to Iceberg. Ensure this user has the appropriate access rights to the Iceberg table.
CDP Workload User Password	Specify the password of the CDP machine user or workload user you are using to authenticate to Iceberg.
CDPEnvironment	The CDP Environment configuration resources.
Hive Catalog Namespace	Specify the Hive catalog namespace.
Iceberg Table Name	Specify the Iceberg table name you want to write to. Table must be Iceberg format v2.
Source Database Driver	Upload the database driver jar file for your source database.
Source Database Name	Specify the source database name.
Source Database Password	Specify the source database password.
Source Database Server Host Name	Specify the source database server host name.
Source Database Server Port	Specify the source database server port. The default value is 50000.
Source Database Table Name	Specify the source database table name in the form: [schema_name].[table_name].
Source Database User	Specify the source database user.

### Related Concepts

[Prerequisites](#)

### Related Information

[Deploying a ReadyFlow](#)