

Shopify to S3/ADLS

Date published: 2021-04-06

Date modified: 2025-09-30



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ReadyFlow overview: Shopify to S3/ADLS

You can use the Shopify to S3/ADLS ReadyFlow to ingest Shopify objects, filter them, and write them as JSON, CSV or Avro files to S3 or ADLS.

This ReadyFlow consumes objects from a Custom Shopify App, converts them to the specified output data format, and writes them to a Cloudera managed destination S3 or ADLS location. For the source, specify the Shopify App's Store Domain name, Access Token, the Object Category and the Object Type. For the destination, specify the S3 or ADLS storage location and path. The flow writes out a file every time its size has either reached 100MB or five minutes have passed. Files can reach a maximum size of 1GB. Failed S3 or ADLS write operations are retried automatically to handle transient issues. Define a KPI on the failure_WriteToS3/ADLS connection to monitor failed write operations.



Note: This ReadyFlow leverages Cloudera on cloud's centralized access control for cloud storage access. Make sure to either set up Ranger policies or an IDBroker mapping allowing your workload user access to the target S3 or ADLS location.

Shopify to S3/ADLS ReadyFlow details	
Source	Shopify
Source Format	Shopify
Destination	Cloudera managed Amazon S3 or ADLS
Destination Format	JSON, CSV, Avro

Moving data to object stores

Cloud environments offer numerous deployment options and services. There are many ways to store data in the cloud, but the easiest option is to use object stores. Object stores are extremely robust and cost-effective storage solutions with multiple levels of durability and availability. You can include them in your data pipeline, both as an intermediate step and as an end state. Object stores are accessible to many tools and connecting systems, and you have a variety of options to control access.

Prerequisites

Learn how to collect the information you need to deploy the Shopify to S3/ADLS ReadyFlow, and meet other prerequisites.

For your data ingest source

- You have a Shopify account.
- You have your Shopify store domain name.
- You have data stored in Shopify that you want to move to an object store.
- You have the Shopify object category and object type.
- You have created a [custom Shopify app](#).
- You have the access token from the custom app.

For Cloudera Data Flow

- You have enabled Cloudera Data Flow for an environment.

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

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

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

**Note:**

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

- Give that user EnvironmentUser role.
- You have synchronized your user to the Cloudera on cloud environment that you enabled for Cloudera Data Flow.


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

- You have granted your Cloudera user the DFCatalogAdmin and DFFlowAdmin roles to enable your user to add the ReadyFlow to the Catalog and deploy the flow definition.

- Give a user permission to add the ReadyFlow to the Catalog.
 - From the Management Console, click User Management.
 - Enter the name of the user or group you wish to authorize in the Search field.
 - Select the user or group from the list that displays.
 - Click Roles Update Roles .
 - 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.

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

For your ADLS data ingest target

- You have your ADLS container and path into which you want to ingest data.

- You have performed one of the following to configure access to your ADLS folder:
 - You have configured access to the ADLS folders with a RAZ enabled environment.

It is a best practice to enable RAZ to control access to your object store folders. This allows you to use your Cloudera on cloud credentials to access ADLS folders, increases auditability, and makes object store data ingest workflows portable across cloud providers.

1. Ensure that Fine-grained access control is enabled for your Cloudera Data Flow environment.
2. From the Ranger UI, navigate to the ADLS repository.
3. Create a policy to govern access to the ADLS container and path used in your ingest workflow. For example: adls-to-adls-avro-ingest



Tip: The Path field must begin with a forward slash (/).

4. Add the machine user that you have created for your ingest workflow to ingest the policy you just created.

For more information, see *Ranger policies for RAZ-enabled Azure environment*.

- You have configured access to ADLS folders using ID Broker mapping.

If your environment is not RAZ-enabled, you can configure access to ADLS folders using ID Broker mapping.

1. Access IDBroker mappings.
 - a. To access IDBroker mappings in your environment, click **Actions Manage Access**.
 - b. Choose the IDBroker Mappings tab where you can provide mappings for users or groups and click **Edit**.
2. Add your Cloudera Workload User and the corresponding Azure role that provides write access to your folder in ADLS to the Current Mappings section by clicking the blue + sign.



Note: You can get the Azure Managed Identity Resource ID from the Azure Portal by navigating to **Managed Identities Your Managed Identity Properties Resource ID**. The selected Azure MSI role must have a trust policy allowing IDBroker to assume this role.

3. Click **Save and Sync**.

For your S3 data ingest target

- You have your source S3 path and bucket.

- Perform one of the following to configure access to S3 buckets:

- You have configured access to S3 buckets with a RAZ enabled environment.

It is a best practice to enable RAZ to control access to your object store buckets. This allows you to use your Cloudera credentials to access S3 buckets, increases auditability, and makes object store data ingest workflows portable across cloud providers.

1. Ensure that Fine-grained access control is enabled for your Cloudera Data Flow environment.
2. From the Ranger UI, navigate to the S3 repository.
3. Create a policy to govern access to the S3 bucket and path used in your ingest workflow.



Tip:

The Path field must begin with a forward slash (/).

4. Add the machine user that you have created for your ingest workflow to the policy you just created.

For more information, see *Creating Ranger policy to use in RAZ-enabled AWS environment*.

- You have configured access to S3 buckets using ID Broker mapping.

If your environment is not RAZ-enabled, you can configure access to S3 buckets using ID Broker mapping.

1. Access IDBroker mappings.
 - a. To access IDBroker mappings in your environment, click **Actions Manage Access**.
 - b. Choose the IDBroker Mappings tab where you can provide mappings for users or groups and click **Edit**.
2. Add your Cloudera Workload User and the corresponding AWS role that provides write access to your folder in your S3 bucket to the Current Mappings section by clicking the blue + sign.



Note: You can get the AWS IAM role ARN from the Roles Summary page in AWS and can copy it into the IDBroker role field. The selected AWS IAM role must have a trust policy allowing IDBroker to assume this role.

3. Click **Save and Sync**.

Related Concepts

[Required parameters](#)

Required parameters

When deploying the Shopify to S3/ADLS ReadyFlow, you have to provide the following parameters. Use the information you collected in *Prerequisites*.

Table 1: Shopify to S3/ADLS ReadyFlow configuration parameters

Parameter name	Description
CDP Workload User	Specify the Cloudera machine user or workload username that you want to use to authenticate to the object stores. Ensure this user has the appropriate access rights to the object store locations in Ranger or IDBroker.
CDP Workload User Password	Specify the password of the Cloudera machine user or workload user you are using to authenticate against the object stores (via IDBroker).
CSV Delimiter	If your desired output data is CSV, specify the delimiter here.
Data Output Format	Specify the desired format for your output data. You can use CSV, JSON or AVRO with this ReadyFlow.
Destination S3 or ADLS Path	Specify the name of the destination S3 or ADLS path you want to write to. Make sure that the path starts with "/".

Parameter name	Description
Destination S3 or ADLS Storage Location	<p>Specify the name of the destination S3 bucket or ADLS Container you want to write to.</p> <p>For S3, enter a value in the form: s3a://[Destination S3 Bucket]</p> <p>For ADLS, enter a value in the form: abfs://[Destination ADLS File System]/[Destination ADLS Storage Account].dfs.core.windows.net</p>
Incremental Delay	<p>Specify a value for this Shopify processor property to avoid missing objects when the clocks of your local machines and of Shopify servers are not in sync. This property is only used if Incremental Loading is set to true.</p> <p>The default value is 3 seconds.</p>
Incremental Loading	<p>Specify a value for this Shopify processor property to decide whether to load queried objects incrementally. Set to true to query each object exactly once. Set to false to query each object at least once.</p> <p>The default value is true.</p>
Shopify Access Token	Specify the Shopify access token to authenticate requests.
Shopify Object Category	<p>Specify the Shopify object category to request.</p> <p>The following values are supported:</p> <ul style="list-style-type: none"> CUSTOMERS DISCOUNTS INVENTORY ONLINE_STORE ORDERS PRODUCTS SALES_CHANNEL STORE_PROPERTIES
Shopify Object Type	<p>Specify the Shopify object type (subcategory) to request.</p> <p>The Object Type depends on the Object Category and the following (category: types) groups are supported:</p> <ul style="list-style-type: none"> CUSTOMERS: customers; DISCOUNTS: price_rules; INVENTORY: locations; ONLINE_STORE: blogs, comments, pages, redirects, script_tags, themes; ORDERS: checkouts, draft_orders, orders; PRODUCTS: collects, custom_collections, products, custom_collections; SALES_CHANNEL: collection_listings, product_listings; STORE_PROPERTIES: countries, currencies, policies, shipping_zones;
Shopify Result Limit	<p>Specify the maximum number of results returned by Shopify.</p> <p>The default value is 100.</p>
Shopify Store Domain	Specify the domain of the Shopify store. For example, nifistore.myshopify.com

Related Concepts

[Prerequisites](#)

[Related Information](#)

[Deploying a ReadyFlow](#)