

## Configuring Data Connectors

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# Using Ozone storage with Cloudera Data Engineering Private Cloud

Apache Ozone is an object store available on the CDP Private Cloud Base cluster which enables you to optimize storage for big data workloads. You can configure Ozone as the backend storage for workloads of CDE clusters.

Data connectors enable you to access different storage using only a few configurations specific to storage. Data Connectors are bound to a CDE service. Hence, you must first create a CDE service before configuring Ozone storage through Data Connectors. All the virtual clusters managed by that CDE service can use the same data connectors.

## Related Information

[Adding a Cloudera Data Engineering service](#)


## Adding Ozone data connector for Cloudera Data Engineering service

You can configure Ozone as the backend storage for Cloudera Data Engineering (CDE) workloads.

### Before you begin

Data connectors are bound to a CDE service and you must first create a CDE service before configuring Ozone storage.

### Procedure

1. In the Cloudera Data Platform (CDP) console, click the Data Engineering tile. The CDE Home page displays.
2. Click Administration in the left navigation menu. The Administration page displays.
3. In the Services column, click  for the CDE service you want to configure for accessing the Ozone file system.
4. Click the Data Connectors tab. On the Data Connectors tab, you can view details about the existing data connectors, if any, including the CDE service name, URL for the storage, CDH Version, and the CDP environment.
5. Click Create A Connector. The Create A Connector dialog box is displayed.
6. Specify the connector's name.

7. Select Ozone from the Type of Connector drop-down list.

Administration / Service / cde-1

✓ Enabled

cde-1

VERSION

1.20.0-b398

CLUSTER ID

cluster-xxxx-xxxx/44

CREATED BY

c ,

GRAFANA CHARTS

Configuration

Charts

Logs

Data Conn

🔍 Search by Name

Name

ozone-3

ozone-1

ozone-2

Create A Conn

Connector Name \*

Ozone

Type of connector

OZONE

Ozone Connector

Ozone Endpoint

CDH Version: 7.

8. Review the summary and click Create Connector.

### Results

After configuring the CDE service to access the Ozone filesystem, use this data connector during job creation to read and write from Apache Ozone Object Store through your workload Spark job.

### Related Information


[Adding a Cloudera Data Engineering service](#)

[Creating jobs in Cloudera Data Engineering](#)


## Deleting Ozone data connector for Cloudera Data Engineering service

You can delete an existing data connector.

### Procedure

1. In the Cloudera Data Platform (CDP) console, click the Data Engineering tile. The CDE Home page displays.
2. Click Administration in the left navigation menu. The Administration page displays.
3. In the Services column, click  icon for the CDE service you want to configure for accessing the Ozone file system.
4. Click the Data Connectors tab. On the Data Connectors tab, you can view details about the existing data connectors, if any, including the service name and CDP environment.
- 5.



Click  in the Actions column next to the data connector, and then click Delete.

6. In the Delete Connector dialog box, click Confirm to delete the data connector.

## Backing up and Restoring Data Connectors

Before you upgrade your clusters or delete an existing cluster to create a new cluster, you can back up the data connectors and restore those data connectors post-upgrade on the new cluster. The data connector pre-upgrade jobs work seamlessly on the upgraded cluster after you restore those jobs.


### Backing up the data connector

You must back up your data connectors before you delete or upgrade your cluster.

#### Before you begin

Install `jq` on the host machine where you want to run the backup and restore commands.

### Procedure

1. Get the CDE Service URL.
  - a. In the Cloudera Data Platform (CDP) console, click the Data Engineering tile. The CDE Home page displays.
  - b. In the CDE Services column, click  for the CDE service.
  - c. Click on GRAFANA CHARTS and get the domain name.
  - d. Note the URL. For example, if the URL copied is `https://service.cde-n82xsqpr.apps.apps.shared-rke-dev-01.kcloud.example.com/grafana/d/sKIXDusZz/kubernetes`, use only the `https://service.cde-n82xsqpr.apps.apps.shared-rke-dev-01.kcloud.example.com` as the CDE Service URL.


## 2. Get the CDE token for your CDE service URL.

```
export CDE_TOKEN=$(curl -k -L -u <user-name>:<password> https://<cde service url>/gateway/authnkn/knoxtoken/api/v1/token | jq -r .access_token)
```

Example:

```
export CDE_TOKEN=$(curl -k -L -u dexssoadmin:Password@123 https://service.cde-4x6s29mx.apps.apps.shared-os-qe-01.kcloud.cloudera.com/gateway/authnkn/knoxtoken/api/v1/token | jq -r .access_token)
```

## 3. Note the cluster-ID.

- a. In the Cloudera Data Platform (CDP) console, click the Data Engineering tile. The CDE Home page displays.
- b. In the CDE Services column, click  for the CDE service.
- c. Click on GRAFANA CHARTS and get the domain name.
- d. Note the Cluster ID shown on the page.

## 4. Provide the CDE token and cluster-ID and run the data connector backup command.

```
curl --location --request POST 'https://<cde service url>/data-connectors/v1/backupDataConnections' \
--header "Authorization: Bearer ${CDE_TOKEN}" \
--data-raw '{
  "clusterId": "<cluster id of cluster that needs backing up>"
}' --insecure | jq .zipFile | tr -d '"' | base64 -d > backup-dataconnectors.zip
```

Example:

```
curl --location --request POST 'https://service.cde-4x6s29mx.apps.apps.shared-os-qe-01.kcloud.cloudera.com/data-connectors/v1/backupDataConnections' \
--header "Authorization: Bearer ${CDE_TOKEN}" \
--data-raw '{
  "clusterId": "cluster-4x6s29mx"
}' --insecure | jq .zipFile | tr -d '"' | base64 -d > backup-dataconnectors.zip
```

## Related Information

[Installing jq](#)