

GCP Credentials

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Contents

Working with GCP credentials.....	4
GCP credential overview.....	4
Creating a GCP credential.....	4
Changing an environment's credential.....	5
Deleting a credential.....	6

Working with provisioning credentials for GCP

Refer to the following documentation to learn about creating and managing GCP credentials in Cloudera:

Related Information

[Introduction to the provisioning credential for Google Cloud](#)

[Registering a GCP credential in Cloudera](#)

[Changing an environment's credential](#)

[Deleting a credential](#)

Introduction to the provisioning credential for Google Cloud

The provisioning credential for Google Cloud relies on a service account that can be assumed by Cloudera.

The following flow describes how the Google Cloud provisioning credential works:

1. Your GCP account administrator creates a service account and assigns the minimum permissions allowing Cloudera to create and manage resources in your Google Cloud account. Next, the administrator generates a service account access key pair for the service account. The minimum permissions are described in [Service account for the Cloudera provisioning credential](#).
2. The service account is registered as a credential in Cloudera and its access key is uploaded to Cloudera.
3. The credential is then used for registering your Google Cloud environment in Cloudera.
4. Once this is done, Cloudera uses the credential for provisioning environment-related resources, workload clusters, and resources for other Cloudera services that you run in Cloudera.

Registering a GCP credential in Cloudera

Once you have created a service account and generated a JSON access key in GCP, register the access key as a credential in GCP.

Before you begin

Prior to registering a GCP credential in Cloudera, you should create a service account in Google Cloud and assign the required permissions to it. Next, you should generate a JSON access key for the service account. See [Service account for the provisioning credential](#). Once done, you can register the Google Cloud credential in Cloudera using the steps below.

Required role: EnvironmentCreator

Steps

For Cloudera UI

1. Log in to the Cloudera web interface.
2. Navigate to the Cloudera Management Console.
3. Select Shared Resources > Credentials from the navigation pane.
4. Click Create Credential.
5. Under Select Cloud Provider, select Google to access credential options for Google Cloud Platform.

6. Provide the following information:

Parameter	Description
Name	Enter a name for your credential.
Description	(Optional) Enter a description.
Key Type	JSON is pre-selected. Do not change this. P12 key type is only included for backward compatibility, not for new deployments.
Service Account Private Key (JSON format)	Upload the JSON access key generated for your pre-created service account. You should have saved it on your computer in an earlier step.

7. Click Create Credential.**For CDP CLI**

Once you've created a service account and generated an access key, you can provide the access key to Cloudera by creating a credential.

Use the following CDP CLI command to create a credential:

```
cdp environments create-gcp-credential \
--credential-name YOUR-CREDENTIAL-NAME \
--credential-key file:///PATH/TO/FILE.json
```

The `--credential-key` parameter to point to the location of the JSON access key file on your computer.

For example:

```
cdp environments create-gcp-credential \
--credential-name test-gcp-cred \
--credential-key file:///Users/jsmith/Downloads/test-gcp-181d5f172bf1.json
```

Use the following command to verify that the credential has been created:

```
cdp environments list-credentials
```

After you finish

Now that you have created the credential, you can register it as part of a Cloudera environment.

Changing an environment's credential

You can change the credential attached to an environment as long as the new credential provides the required level of access to the same GCP account as the old credential.



Required roles:

- EnvironmentAdmin or Owner of the environment
- SharedResourceUser or Owner of the credential

Steps

For Cloudera UI

1. Log in to the Cloudera web interface.
2. Navigate to the Cloudera Management Console.
3. Select Environments from the navigation pane.
4. Click on a specific environment.

5. Navigate to the Summary tab.
6. Scroll down to the Credential section.
7.
Click  to access credential edit options.
8. Select the new credential that you would like to use.
9.
Click  to save the changes.

For CDP CLI

If you would like to delete a credential from the CDP CLI, use:

```
cdp environments update-environment-credential --environment-name <value>  
--credential-name <value>
```

Deleting a credential

You can delete a credential as long as no environment is currently using it.


Before you begin

A credential can only be deleted if it is not currently being used by any environments. If the credential that you are trying to delete is currently being used by one or more environments, you must remove the dependency by either deleting all such environments or changing their credential.

Required role: Owner

Steps

For Cloudera UI

1. Log in to the Cloudera web interface.
2. Navigate to the Cloudera Management Console.
3. Select Shared Resources > Credentials from the navigation pane.
4.
Select the credential that you would like to delete and click on .
5. Confirm the deletion by clicking Yes.
This deletes the credential.

For CDP CLI

If you would like to delete a credential from the CDP CLI, use

```
cdp environments delete-credential --credential-name <value>
```

.