

Tagging Dataplex Assets


Enable Dataplex and Data Catalog APIs

1. In the Google Cloud Console, enter **Cloud Dataplex API** in the top search bar.
2. Click on the result for **Cloud Dataplex API** under Marketplace.
3. Click **Enable**.
4. Repeat steps 1-3 for **Google Cloud Data Catalog API**.

Task 1. Create a lake, zone, and asset

In this task, you create a new Dataplex lake to store customer order information, add a curated zone to the lake, and then attach a pre-created BigQuery dataset as a new asset in the zone.

Create a lake

1. In the Google Cloud Console, in the **Navigation menu** () , navigate to **Analytics > Dataplex**.
If prompted **Welcome to the new Dataplex experience**, click **Close**.
2. Under **Manage lakes**, click **Manage**.

3. Click **Create lake**.

4. Enter the required information to create a new lake:

Property	Value
Display Name	Orders Lake
ID	Leave the default value.
Region	us-centrall

Leave the other default values.

5. Click **Create**.

It can take up to 3 minutes for the lake to be created.

Add a zone to the lake

1. On the **Manage** tab, click on the name of your lake.

2. Click **Add zone**.

3. Enter the required information to create a new zone:

Property	Value
Display Name	Customer Curated Zone
ID	Leave the default value.

Type	Curated zone
Data locations	Regional

Leave the other default values.

For example, the option for **Enable metadata discovery** under **Discovery settings** is enabled by default and allows authorized users to discover the data in the zone.

4. Click **Create**.

It can take up to 2 minutes for the zone to be created.

You can perform the next task once the status of the zone is **Active**.

Attach an asset to a zone

1. On the **Zones** tab, click on the name of your zone.
2. On the **Assets** tab, click **Add assets**.
3. Click **Add an asset**.
4. Enter the required information to attach a new asset:

Property	Value
Type	BigQuery dataset
Display Name	Customer Details Dataset
ID	Leave the default value.

Dataset	qwiklabs-gcp-04-5b66fd9bdf63.customers
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Leave the other default values.

5. Click **Done**.
6. Click **Continue**.
7. For **Discovery settings**, select **Inherit** to inherit the Discovery settings from the zone level, and then click **Continue**.
8. Click **Submit**.

Task 2. Create a tag template

To start tagging data, you first need to create one or more tag templates. A tag template can be a public or private tag template. When you create a new tag template, the option to create a public tag template is the default and recommended option. Users who have the required view permissions for a data asset can view all the public tags associated with it. This supports simple search for discovery while also adhering to data access controls already implemented on the underlying data.

In this task, you create a public tag template to label BigQuery table columns with a protected status. With a public tag template, users who have access to the underlying BigQuery table columns will be able to see the tags applied to the columns.

1. On the left menu, under **Manage Metadata**, click **Tag templates**.
2. Click **Create tag template**.
3. Enter the required information to define the tag template:

Property	Value
Template Display Name	Protected Data Template
Template ID	Leave the default value.
Location	us-centrall
Visibility	Public

4. Click **Add field**, and enter the required information to add a new field to the template:

Property	Value
Field Display Name	Protected Data Flag
Field ID	Leave the default value.
Type	Enumerated

5. For **Enumerated values > Values 1**, enter YES.

6. Click **Add value**, and for **Values 2**, enter NO.

7. Click **Done**.

8. Click **Create**.

Task 3. Apply a tag template to Dataplex assets

After you create a tag template, you can use it to attach tags to any number of desired data assets to which you have access.

In this task, you apply your previously created tag template to specific columns in the BigQuery table that you want to label with a protected data status.

1. On the left menu, under **Discover**, click **Search**.
2. For **Filters > Systems**, enable the checkbox for **Dataplex**.
3. Click on the **customer_details** table.

If you do not see the **customer_details** table, wait a few minutes and then refresh the page to allow the Dataplex asset list to be updated.

4. Click **Attach tags**.
5. For **Choose what to tag**, enable the checkboxes for the following columns:
 - zip
 - state
 - last_name
 - country
 - email
 - latitude
 - first_name
 - city
 - longitude
6. Click **OK**.
7. For **Choose the tag templates**, select **Protected data template**.
8. For **Protected data flag**, select **YES**.
9. Click **Save**.

Task 4. Search for assets using tags

After you have tagged data assets, you can search for them using Data Catalog within Dataplex.

In this task, you search for the assets that have been tagged using the Protected Data tag template.

1. On the left menu, under **Discover**, click **Search**.
2. For **Filters > Tags**, enable the checkbox for **Protected data template**.
3. Click on the **customer_details** table.
4. Click on the **Schema and column tags** tab to see the Protected Data tags on the specified columns.