

Getting Started

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Grant Full Access: This option allows Segment to automatically complete the setup for you after you provide Segment with all the necessary permissions. This option requires less time and engineering effort on your part.

Grant Limited Access: This option is more secure, as it restricts the permissions Segment has access to. However, due to the limited access, you must complete a few additional setup steps. These are one-time steps, and the documentation provides you with the information required to complete this process.

You can choose the approach that best suits your needs.

Grant Full Access

With this approach, use BigQuery predefined roles to create a service account for Segment to assume.

h BigQuery, navigate to IAM & Admin > Service Accounts.

2lick + **Create Service Account** to create a new service account.

Bnter your **Service account name** and a description of what the service account will do.

Glick Create and Continue.

- 5lick + Add another role and add the BigQuery User role.
- 6lick + Add another role and add the BigQuery Data Editor role.
- Lick Continue, then click Done.

Grant Limited Access

With this approach, you can set up a custom role with the following permissions:

PERMISSION	DETAILS
bigquery.datasets.get	This allows Segment to determine if thesegment_reverse_etl dataset exists.
bigquery.jobs.create	This allows Segment to execute queries on any datasets or tables your model query references, and also allows Segment to manage tables used for tracking.
bigquery.tables.getData	This allows Segment to run SELECT queries on tables that will be defined in the model.

h BigQuery, navigate to IAM & Admin > Roles.

2lick + CREATE ROLE to create a new role.

3dd Title and Description as you like.

Click **ADD PERMISSIONS** and add the permission listed in the above tables. Repeat this step until you've added all required permissions.

5lick CREATE.

Gavigate to IAM & Admin > Service Accounts.

Click + Create Service Account to create a new service account.

8nter your Service account name and a description of what the account will do.

Slick Create and Continue.

10the Grant this service account access to project section, select the role you just created.

Click Continue.

Cick **Done**. Copy and keep the Service Account email handy for the next steps.

Mavigate to the BigQuery SQL editor and create a dataset that will be used by Segment:

```
CREATE SCHEMA IF NOT EXISTS `__segment_reverse_etl`;
```

CHant limited access to the Segment Reverse ETL dataset

```
GRANT `roles/bigquery.dataEditor` ON SCHEMA `__segment_reverse_etl` TO "serviceAccount:<YOUR SERVICE ACCOUNT EMAIL
>";
```

BigQuery resource location

When connecting your BigQuery warehouse to Segment, you'll need to know the location of your resources.

You can find the location of your BigQuery resources using the following method:

the BigQuery console, navigate to your dataset. In the explorer panel on the left, expand the project and dataset to view the tables.

2lick on the name of the dataset, and it opens a page showing its details.

3he Location of the dataset (like US or EU) is displayed in the Dataset Info.

Set up BigQuery as your Reverse ETL source

the BigQuery console, search for the service account you created.

When your service account pulls up, click the 3 dots under **Actions** and select **Manage keys**.

Blick Add Key > Create new key.

the pop-up window, select **JSON** for the key type and click **Create**. The file will be downloaded.

5opy all the content in the JSON file you created in the previous step.

Open the Segment app and navigate to **Connections > Sources**.

On the My sources page, click + Add source.

8earch for "BigQuery" and select the BigQuery source from the sources catalog. On the BigQuery overview page, click **Add Source**.

9n the Set up BigQuery page, enter a name for your source and paste all the credentials you copied from previous step into the **Enter your credentials** section.

Edter the location of your BigQuery warehouse in the **Data Location** field.

Click **Test Connection** to test to see if the connection works. If the connection fails, make sure you have the right permissions and credentials and try again.

12the test connection completes successfully, click Add source to complete the setup process.

After you've added BigQuery as a source, you can add a model and follow the rest of the steps in the Reverse ETL setup guide.

This page was last modified: 22 Oct 2024

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