

Working with transfers

After creating a transfer using the BigQuery Data Transfer Service, you can:

- Get information about a transfer configuration
- List transfer configurations
- View a transfer's run history
- View transfer run details such as log messages
- Update a transfer
- Set up a backfill
- Update credentials
- Disable a transfer
- Delete a transfer

Getting information about transfers

After you create a transfer, you can get information about the transfer's configuration. The configuration includes the values you supplied when you created the transfer.

Required permissions

Getting information about a transfer requires `bigquery.transfers.get` permissions. The following predefined IAM roles include `bigquery.transfers.get` permissions:

- `bigquery.admin`
- `bigquery.user`

A user granted the `bigquery.transfers.get` permissions can view information about all transfers in a project.

For more information on IAM roles in BigQuery Data Transfer Service, see [Access control reference](https://cloud.google.com/bigquery-transfer/docs/reference/access-control) (/bigquery-transfer/docs/reference/access-control).

Getting information about a transfer

To get information about a transfer configuration:

[Console Classic UI](#) (#classic-ui) [bq](#) (#bq) [API](#) (#api)

1. In the Google Cloud Console, go to the **BigQuery web UI**.

[Go to the Cloud Console](https://console.cloud.google.com/bigquery) (https://console.cloud.google.com/bigquery)

2. Click **Transfers**.
3. On the **Transfers** page, click on an appropriate transfer in the list.
4. Click on **CONFIGURATION** for the selected transfer.
5. The transfer configuration and data source details will appear. The following example shows the configuration properties for a Teradata migration.

✔ My Transfer

Transfer config details

Resource name	projects/[redacted]/locations/us/transferConfigs/[redacted]
Source	Google Ads (formerly AdWords)
Destination dataset	my_dataset
Schedule (UTC)	None
Start date (UTC)	None
End date (UTC)	None
Notification Cloud Pub/Sub topic	None
Email notifications	None

Data source details

Customer ID	[redacted]
Exclude removed/disabled items	None

Listing transfer configurations

Required permissions

Listing all the transfers, or *transfer configurations*, in a project requires the `bigquery.transfers.get` permission. The following predefined IAM roles include `bigquery.transfers.get` permissions:

- `bigquery.admin`
- `bigquery.user`

A user granted the `bigquery.transfers.get` permissions can list all transfers in a project.

For more information on IAM roles in BigQuery Data Transfer Service, see [Access control reference](/bigquery-transfer/docs/reference/access-control-reference) (/bigquery-transfer/docs/reference/access-control).

Listing transfers

To list transfer configurations in a project:

[Console Classic UI](#) (#classic-ui) [bq_](#) (#bq) [API](#) (#api)

1. In the Google Cloud Console, go to the **BigQuery web UI**.

[Go to the Cloud Console](https://console.cloud.google.com/bigquery) (https://console.cloud.google.com/bigquery)

2. Click **Transfers**.
3. If there are any transfer configurations in the project, a list of the transfer configurations appears on the **Transfers** page.

Viewing the run history

As your scheduled transfers are run, a run history is kept for each transfer configuration that includes successful transfer runs and transfer runs that fail. Transfer runs more than 90 days old are automatically deleted from the run history.

Required permissions

Viewing the run history for a transfer configuration requires `bigquery.transfers.get` permissions. The `bigquery.user` predefined IAM role includes `bigquery.transfers.get` permissions.

For more information on IAM roles in BigQuery Data Transfer Service, see [Access control reference](/bigquery-transfer/docs/reference/access-control-reference) (/bigquery-transfer/docs/reference/access-control).

Viewing a run history

To view the run history for a transfer configuration:

[Console](#)[Classic UI](#) (#classic-ui)[bq](#) (#bq)[API](#) (#api)

1. In the Google Cloud Console, go to the **BigQuery web UI**.

[Go to the Cloud Console](https://console.cloud.google.com/bigquery) (https://console.cloud.google.com/bigquery)

2. Click **Transfers**.
3. On the **Transfers** page, click on an appropriate transfer in the list.
4. You will be on the **RUN HISTORY** page for the selected transfer.

Viewing transfer run details and log messages

When a transfer run appears in the run history, you can view the run details including log messages, warnings and errors, the run name, and the start and end time.

Required permissions

Viewing transfer run details requires `bigquery.transfers.get` permissions. The `bigquery.user` predefined IAM role includes `bigquery.transfers.get` permissions.

For more information on IAM roles in BigQuery Data Transfer Service, see [Access control reference](#) (/bigquery-transfer/docs/reference/access-control).

Viewing details for a transfer run

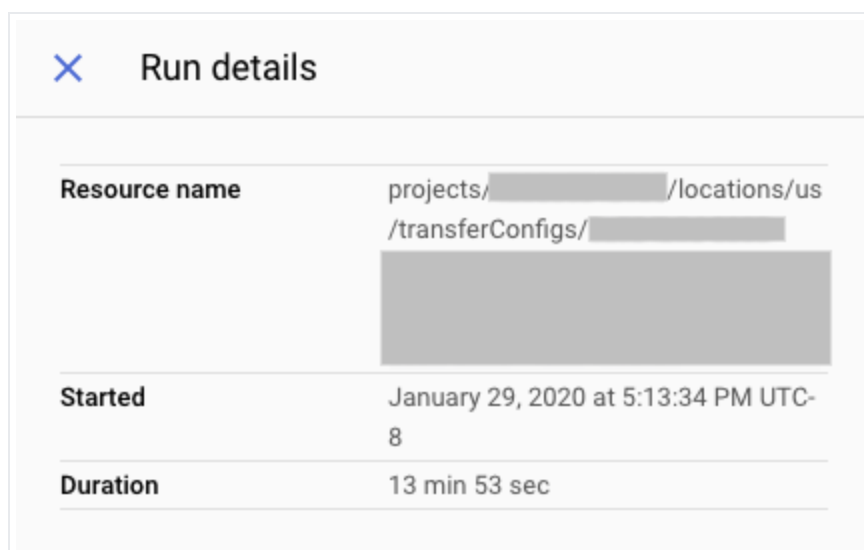
To view transfer run details:

[Console](#)[Classic UI](#) (#classic-ui)[bq](#) (#bq)[API](#) (#api)

1. In the Google Cloud Console, go to the **BigQuery web UI**.

[Go to the Cloud Console \(https://console.cloud.google.com/bigquery\)](https://console.cloud.google.com/bigquery)

2. Click **Transfers**.
3. On the **Transfers** page, click on an appropriate transfer in the list.
4. You will be on the **RUN HISTORY** page for the selected transfer.
5. Click on an individual run of the transfer, and the **Run details** panel will open for that run of the transfer.
6. In the **Run details**, note any error messages. This information is needed if you contact Google Cloud Support. The run details also include log messages and warnings.



Run details	
Resource name	projects/[redacted]/locations/us /transferConfigs/[redacted] [redacted]
Started	January 29, 2020 at 5:13:34 PM UTC-8
Duration	13 min 53 sec

Updating a transfer

Once the transfer is added, you can edit the transfer. You can edit any of the fields populated during transfer creation except for the **Source**:

- Destination dataset
- Display name
- Any of the parameters specified for the specific transfer type
- Run notification settings

Required permissions

Updating a transfer requires `bigquery.transfers.update` permissions. The `bigquery.admin` predefined IAM role includes `bigquery.transfers.update` permissions.

For more information on IAM roles in BigQuery Data Transfer Service, see [Access control reference](/bigquery-transfer/docs/reference/access-control) (/bigquery-transfer/docs/reference/access-control).

Updating a transfer

To update a transfer:

[Console](#)[Classic UI](#) (#classic-ui)[bq](#) (#bq)[API](#) (#api)

1. In the Google Cloud Console, go to the **BigQuery web UI**.

[Go to the Cloud Console](https://console.cloud.google.com/bigquery) (https://console.cloud.google.com/bigquery)

2. Click **Transfers**.
3. On the **Transfers** page, click on an appropriate transfer in the list.
4. Click **EDIT** to update the transfer configuration.

Setting up backfills and refresh runs

Refreshing

Note that backfills are not available for these types of transfers. However, you can set up a refresh run.

- [Cloud Storage](/bigquery-transfer/docs/cloud-storage-transfer#setting_up_a_refresh_run_of_a_transfer) (/bigquery-transfer/docs/cloud-storage-transfer#setting_up_a_refresh_run_of_a_transfer) transfers
- [Copying datasets](/bigquery/docs/copying-datasets#viewing_and_refreshing_dataset_copy_jobs) (/bigquery/docs/copying-datasets#viewing_and_refreshing_dataset_copy_jobs)

Backfilling

You can manually initiate data backfills at any time. In addition to source limits, the BigQuery Data Transfer Service supports a maximum of 180 days per backfill request. Simultaneous

backfill requests are not supported.

n: When backfilling large date ranges, break your backfill requests into **180 day** chunks, and wait for the previous request to finish before creating another one.

For information on how much data is available for backfill, see the documentation for your data source:

- [Campaign Manager](/bigquery-transfer/docs/doubleclick-campaign-transfer) (/bigquery-transfer/docs/doubleclick-campaign-transfer)
- [Google Ad Manager](/bigquery-transfer/docs/doubleclick-publisher-transfer) (/bigquery-transfer/docs/doubleclick-publisher-transfer)
- [Google Ads](/bigquery-transfer/docs/adwords-transfer) (/bigquery-transfer/docs/adwords-transfer)
 - When you set up a backfill for Google Ads, snapshots of Match Tables are taken once a day and stored in the partition for the latest run date. When you schedule a backfill, Match Table snapshots for the following tables are NOT updated:
 - Ad
 - AdGroup
 - AgeRange
 - Audience
 - BidGoal
 - Budget
 - Campaign
 - Criteria
 - Customer
 - Gender
 - Keyword
 - LocationBasedCampaignCriterion
 - ParentalStatus
 - Placement

- Video
- [Google Merchant Center](/bigquery-transfer/docs/merchant-center-transfer) (/bigquery-transfer/docs/merchant-center-transfer) (beta)
- [Google Play](/bigquery-transfer/docs/play-transfer) (/bigquery-transfer/docs/play-transfer)
- [Search Ads 360](/bigquery-transfer/docs/sa360-transfer) (/bigquery-transfer/docs/sa360-transfer)
 - When you set up a backfill for Search Ads 360, snapshots of Match Tables are taken once a day and stored in the partition for the latest run date. When you schedule a backfill, Match Table snapshots for the following tables are NOT updated:
 - Account
 - Ad
 - Advertiser
 - AdGroup
 - AdGroupTarget
 - BidStrategy
 - Campaign
 - CampaignTarget
 - FeedItem
 - FloodlightActivity
 - Keyword
 - NegativeAdGroupKeyword
 - NegativeAdGroupTarget
 - NegativeCampaignKeyword
 - NegativeCampaignTarget
 - ProductAdvertised
 - ProductGroup
 - ProductLeadAndCrossSellFloodlightStats

- Video
- Placement
- Video
- [YouTube - Channel Reports](/bigquery-transfer/docs/youtube-channel-transfer) (/bigquery-transfer/docs/youtube-channel-transfer)
- [YouTube - Content Owner Reports](/bigquery-transfer/docs/youtube-content-owner-transfer) (/bigquery-transfer/docs/youtube-content-owner-transfer)

Note that backfills are not available for [Cloud Storage](/bigquery-transfer/docs/cloud-storage-transfer) (/bigquery-transfer/docs/cloud-storage-transfer) transfers. However, you can set up a [refresh run of a Cloud Storage transfer](#). (#refreshing)

Required permissions

Scheduling a backfill requires `bigquery.transfers.update` permissions. The `bigquery.admin` predefined IAM role includes `bigquery.transfers.update` permissions.

For more information on IAM roles in BigQuery Data Transfer Service, see [Access control reference](/bigquery-transfer/docs/reference/access-control) (/bigquery-transfer/docs/reference/access-control).

Scheduling a backfill

To schedule a backfill:

[Console Classic UI](#) (#classic-ui) [bq_](#) (#bq) [API](#) (#api)

1. In the Google Cloud Console, go to the **BigQuery web UI**.

[Go to the Cloud Console](https://console.cloud.google.com/bigquery) (https://console.cloud.google.com/bigquery)

2. Click **Transfers**.
3. On the **Transfers** page, click on an appropriate transfer in the list.
4. Click **MORE** menu, and then select **Schedule backfill**.
5. In the **Schedule backfill** dialog, choose your **Start date** and **End date**. You can use the classic [BigQuery web UI](https://bigquery.cloud.google.com) (https://bigquery.cloud.google.com) to set finer-grained time limits.

Schedule a backfill run.

Set the start and end date for when you'd like the BigQuery Data Transfer Service backfill run to begin and end.

Start date *

3/28/19



End date *

3/30/19



CANCEL

SCHEDULE

n: Depending on the data source, and the amount of data you request, backfills may take several hours or days, etc.

Updating credentials

A transfer uses the credentials of the user that created it. If you need to change the user attached to a transfer configuration, you can update the transfer's credentials. This is useful if the user who created the transfer is no longer with your organization.

Required permissions

Updating credentials requires `bigquery.transfers.update` permissions. The `bigquery.admin` predefined IAM role includes `bigquery.transfers.update` permissions.

For more information on IAM roles in BigQuery Data Transfer Service, see [Access control reference](/bigquery-transfer/docs/reference/access-control) (</bigquery-transfer/docs/reference/access-control>).

Updating a transfer's credentials

To update the credentials for a transfer:

[Console Classic UI](#) (#classic-ui) [bq](#) (#bq) [API](#) (#api)

1. In the Google Cloud Console, go to the **BigQuery web UI**.

[Go to the Cloud Console](https://console.cloud.google.com/bigquery) (https://console.cloud.google.com/bigquery)

2. Click **Transfers**.
3. On the **Transfers** page, click on an appropriate transfer in the list.
4. Click **MORE** menu, and then select **Refresh credentials**.
5. Sign into your Google account and click **Allow** to give the BigQuery Data Transfer Service permission to view your reporting data and to access and manage the data in BigQuery. You must allow pop-ups from `bigquery.cloud.google.com` to view the permissions window.

Disabling a transfer

When you disable a transfer, **disabled** is added to the transfer name. When the transfer is disabled, no new transfer runs are scheduled, and no new backfills are allowed. Any transfer runs in progress are completed.

Disabling a transfer does **not** remove any data already transferred to BigQuery. Data previously transferred incurs standard BigQuery [storage costs](#) (/bigquery/pricing#storage) until you [delete the dataset](#) (/bigquery/docs/managing-datasets#deleting_a_dataset) or [delete the tables](#) (/bigquery/docs/managing-tables#deleting_tables).

Required permissions

Disabling a transfer requires `bigquery.transfers.update` permissions. The `bigquery.admin` predefined IAM role includes `bigquery.transfers.update` permissions.

For more information on IAM roles in BigQuery Data Transfer Service, see [Access control reference](#) (/bigquery-transfer/docs/reference/access-control).

Disabling a transfer

To disable a transfer:

[Console](#)[Classic UI](#) (#classic-ui)[bq](#) (#bq)[API](#) (#api)

1. In the Google Cloud Console, go to the **BigQuery web UI**.

[Go to the Cloud Console](https://console.cloud.google.com/bigquery) (https://console.cloud.google.com/bigquery)

2. Click **Transfers**.
3. On the **Transfers** page, click on the transfer in the list that you want to disable.
4. Click on **DISABLE**. To re-enable the transfer, click on **ENABLE**.

Deleting a transfer

When a transfer is deleted, no new transfer runs are scheduled. Any transfer runs in progress are stopped.

Deleting a transfer does **not** remove any data already transferred to BigQuery. Data previously transferred incurs standard BigQuery [storage costs](/bigquery/pricing#storage) (/bigquery/pricing#storage) until you [delete the dataset](/bigquery/docs/managing-datasets#deleting_a_dataset) (/bigquery/docs/managing-datasets#deleting_a_dataset) or [delete the tables](/bigquery/docs/managing-tables#deleting_tables) (/bigquery/docs/managing-tables#deleting_tables).

Required permissions

Deleting a transfer requires `bigquery.transfers.update` permissions. The `bigquery.admin` predefined IAM role includes `bigquery.transfers.update` permissions.

For more information on IAM roles in BigQuery Data Transfer Service, see [Access control reference](/bigquery-transfer/docs/reference/access-control) (/bigquery-transfer/docs/reference/access-control).

Deleting a transfer


To delete a transfer:

[Console](#)[Classic UI](#) (#classic-ui)[bq](#) (#bq)[API](#) (#api)

1. In the Google Cloud Console, go to the **BigQuery web UI**.

[Go to the Cloud Console \(https://console.cloud.google.com/bigquery\)](https://console.cloud.google.com/bigquery)

2. Click **Transfers**.
3. On the **Transfers** page, click on the transfer in the list that you want to delete.
4. Click on **DELETE**. As a safety measure you will need to type the word "delete" into a box to confirm your intention.

 **Caution:** The delete operation cannot be undone.

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