

# Overview of Job Monitoring

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Trifacta® supports detailed monitoring of a job throughout each phase of its execution.

## Limitations:

- Applies only to ingest and publishing jobs
- Applies only to JDBC datasets

## Monitoring Phases

These phases apply to ingest and publishing jobs. Information on them is surfaced in the application.

### Connect

In the Connect phases, Trifacta uses the specified connection for the flow to connect to the source of the job.

**NOTE:** Errors in this phase typically involve issues in the connection definition or in the network configuration or availability.

### Request

After the platform has been able to connect to the datastore, the Request phase entails the submission of the request to the datastore for the assets. For example, for JDBC-based datasets, this phase covers the SQL query of the database through the response that the query was successfully executed.

**NOTE:** Errors in this phase typically reflect errors in the SQL query, which can include renaming or moving of assets in the datastore.

**NOTE:** If assets are retrieved via custom SQL query, you may need to review the query and validate it through the Trifacta application. For more information, see *Create Dataset with SQL*.

## Transfer

This phase covers the transfer of assets from the datastore to the platform.

**NOTE:** Errors in this phase typically indicate issued with permissions.

## Prepare

**NOTE:** This phase applies to publishing jobs only.

Depending on the destination, the Prepare phase includes the creation of temporary tables, generation of manifest files, and the fetching of extra connections for parallel data transfer.

## Process

After the data has been transferred to the platform, this phase covers the processing of cleanup after data transfer, including the dropping of temporary tables or copying data within the instance.

## Enable

The base feature is enabled by default.

```
"feature.enableJobMonitoring": true,
```

## Configure

Optionally, you can enable the following capabilities in the Trifacta application. You can apply this change through the *Admin Settings Page* (recommended) or

```
trifacta-conf.json
```

. For more information, see *Platform Configuration Methods*.

### Enable phases in Data sources tab

To display separate columns in the Data sources tab of the Job Details page for each phase on an ingest job, set the following parameter to `true`:

```
"jobMonitoring.enablePhasesInDatasourcesTable": true,
```

### Enable phases in Outputs tab

To display separate columns in the Outputs tab of the Job Details page for each phase for a publish job, set the following parameter to `true`:

```
"jobMonitoring.enablePhasesInOutputsTable": true,
```

Save your changes and restart the platform.

## Monitoring Jobs in the Application

When the base feature is enabled, you can monitor jobs in the following locations.

### Flow View

- Track phases in the Jobs panel in Flow View. Hover the mouse over the link to the job.
- See *Flow View Page*.

### Import

**NOTE:** This feature may require enablement in your deployment. See *Configure JDBC Ingestion*.

### Import Data:

For long-loading datasets, you can track the progress of the import through the Import Data page as you specify the import. See *Import Data Page*.

### Library:

After specifying the import, if the data is continuing to be ingested, you can track progress through the Library page. See *Library Page*.

### Dataset Details Page:

In the Dataset Details page, you can monitor the ingest progress. Hover over the Status link.

The screenshot displays the 'Dataset Details' page for 'SQL Dataset 1'. On the left, a sidebar shows metadata: 'Last updated: 06/15/2020', 'Connection: postgres', 'Status: Completed: 10 sec', and 'Custom SQL: Edit'. The main content area features a 'Job Monitoring' section with three phases: 'Connect' (Ran for <1 sec), 'Request' (Ran for <1 sec), and 'Transfer' (Ran for <1 sec, 0.0017 MB, 0.0017 MB/sec). To the right, it shows 'Created: 06/15/2020', 'Column Data Type Inference: Disabled', and 'Job ended: 06/15/2020'. At the top right, there are buttons for 'Wrangle in new Flow', 'Preview', 'Edit custom SQL', and a menu icon. Below this is a table with columns 'Name', 'Owner', 'Objects', and 'Last Updated'. The first row shows 'Untitled Flow', 'Administrator', '1 Dataset, 1 Recipe', and 'Last Thursday at 9:17 PM'.

**Figure: Dataset Details Page - Job Monitoring**

### Job Details Page

- Track phases of progress by hovering over the job in progress in the Job Details page.
- Review new and better detail in the Job Details page. Click **View Details** for the job listing.
- For more information, see *Job Details Page*.

### Datasources tab - Phased ingest monitoring

If job monitoring phases have been enabled for the Datasources tab, the tab looks like the following:

Monitoring > Farmers\_Market - 2

Job 7  
Started Today at 12:36 PM

Cancel job ...

Overview Output Destinations Profile Dependencies Data sources

Name	Queued	Connect	Request	Transfer	Process	Status
Farmers_Market	3 sec	✔ <1 sec	✔ <1 sec	✔ 9 sec	-	✔ Completed • 13 sec

**Figure: Job monitoring in the Datasources tab**

**View details:**

If an ingest job succeeds or fails, you can click **View details** in the status column for additional information on each phase of the ingest job:

Details
×

 Farmers\_Market

Details
SQL

Type	oracle
Created	June 24th 2019, 11:38 am
Ingestion	<span style="color: green;">✔</span> Completed • 13 sec

#### Ingestion details

Queued	In queue for 3 sec
Connect	<span style="color: green;">✔</span> Ran for <1 sec
Request	<span style="color: green;">✔</span> Ran for <1 sec
Transfer	<span style="color: green;">✔</span> Ran for 9 sec 76.8760 MB 8.5418 MB/sec

**Figure: View details on monitoring ingest jobs**

**Output destinations tab - Phased publishing monitoring**

If job monitoring phases have been enabled for the Output Destinations tab, the tab looks like the following:

You can download the generated results locally or [publish](#) to another storage location.

Name	Queued	Connect	Prepare	Transfer	Process	Status
 test_20190624_193621	2 sec	 <1 sec	 <1 sec	 <1 sec	 <1 sec	 Completed • 15 sec

**Figure: Job monitoring in the Datasources tab**

**View details:**

If a publishing job succeeds or fails, you can click **View details** in the status column for additional information on each phase of the publishing job:

Details
×

 test\_20190624\_193621

Data preview

#	FM_ID	RBC	Market_Name
	1005627		Montgomery Farmers' Market
	1002686		Hines Veterans Hospital Farmers Market
	1004509		Montgomery Village Farmers Market
	1001779		Farmstand at CHSAS
	1008852		Monticello Farmers' Market
	1007417		Farmville Farmers Market
	1002538		Monticello Old Jail Market

Type                   ORACLE

Location               MKOHLI\_TEST/test\_20190624\_193621

Size                     3 columns · 3 types

Start Time             June 24th 2019, 12:36 pm

Publish                ✔ Completed · 51 sec

**Publish details**

Queued                 In queue for 38 sec

Connect               ✔ Ran for <1 sec

Prepare               ✔ Ran for <1 sec  
5 connections

**Figure: View details on monitoring ingest jobs**