

# Overview of Job Monitoring

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Trifacta® Wrangler Enterprise 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, the Trifacta platform 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 Trifacta platform.

**NOTE:** Errors in this phase typically indicate issues 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

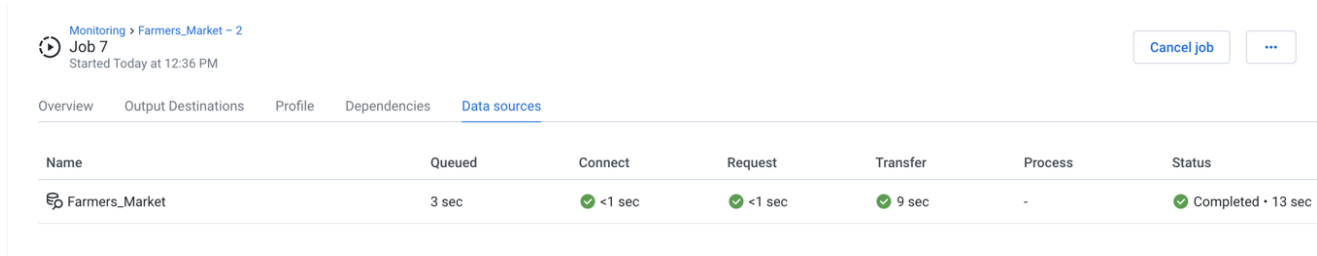
When the base feature is enabled, you can do the following:

- 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:




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**