

Teradata® Data Mover Quick Start Guide

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Quick Start Overview

Welcome to Vantage

Teradata Vantage™ is our flagship analytic platform offering, which evolved from our industry-leading Teradata® Database. Until references in content are updated to reflect this change, the term Teradata Database is synonymous with Teradata Vantage.

Advanced SQL Engine is a core capability of Teradata Vantage, based on our best-in-class Teradata Database. Advanced SQL refers to the ability to run advanced analytic functions beyond that of standard SQL.

Using Teradata Data Mover Quick Start Guide

This guide is procedure-oriented and specific to basic tasks a user can perform on the Data Mover portlet in Viewpoint. The content is for:

- Database administrators
- System administrators
- Software developers, production users, and testers

Why Would I Use this Content?

This guide provides quick instructions to use the Data Mover portlet in Viewpoint, add permissions, set up credentials, and enable a daemon.

How Do I Use this Content?

Walk through the process of creating a job using the Data Mover portlet in Viewpoint and then access, start, and check the status of that job using one of the supported Data Mover client interfaces:

- Portlet
- Command line
- REST

Each interface can be used independently and jobs created in one interface can be viewed, modified, and run using other interfaces.

How Do I Get Started?

This guide is intended for use when Data Mover and Viewpoint are already installed and available in an environment. Refer to the following sections depending on your requirements:

- [Data Mover Portlet Quick Start:](#)
 - [Add and enable a daemon](#)
 - [Add access permission to a daemon](#)



- [Add the Data Mover portlet to the Viewpoint homepage](#)
- [Manage Data Mover jobs on the portlet](#)
- [Command-Line Quick Start](#): Manage Data Mover jobs using Command-lines.
- [REST Quick Start](#): Manage Data Mover jobs using Swagger.

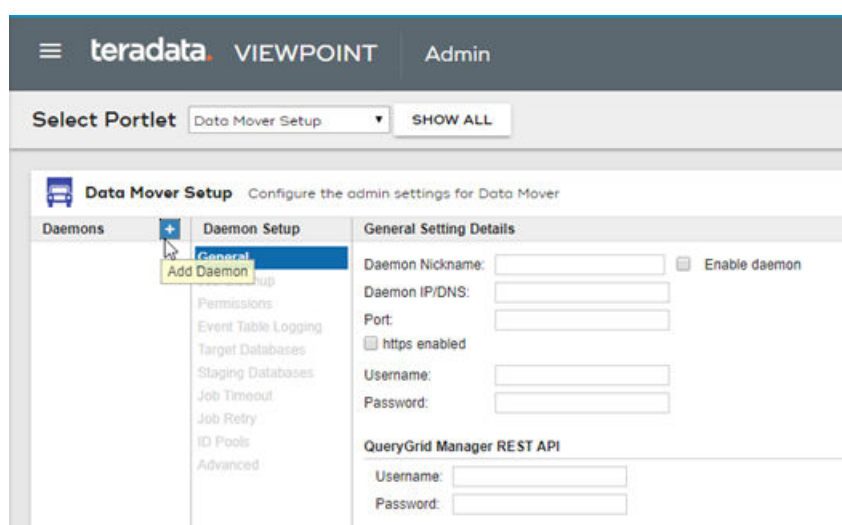
References to Other Relevant Content

For any detailed information about any of the Data Mover components, refer to *Teradata® Data Mover User Guide*, B035-4101.

Data Mover Portlet Quick Start

Adding and Enabling a Daemon

1. From Teradata Viewpoint, select  in the upper right corner.
2. Select **Data Mover Setup** to open the setup portlet.
3. Select  next to **Daemons**.



4. For details on adding or enabling a daemon in the portlet, refer to the *Teradata® Data Mover User Guide*.

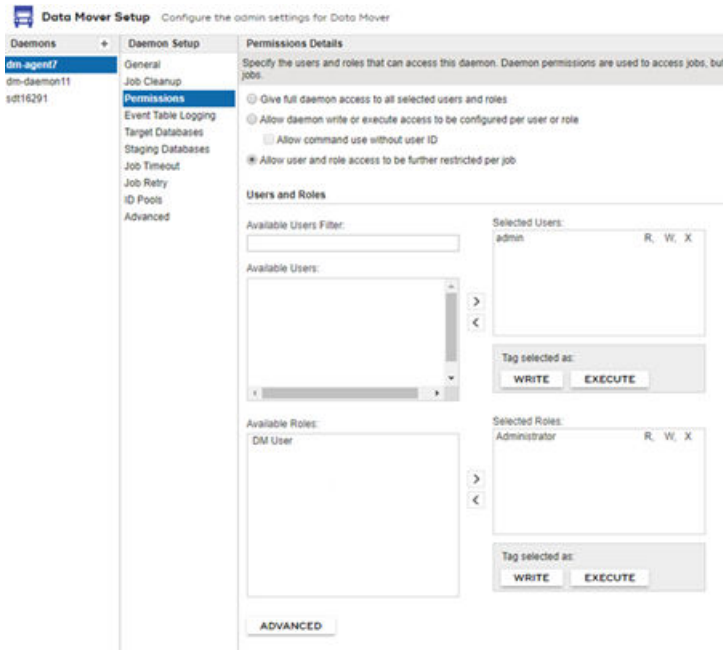
Adding Access Permission to a Daemon

Once a daemon is added, give users and roles the necessary permissions to access and use the daemon.

1. From the **Data Mover Setup** portlet, select **Permissions**.
2. Select one of the following permission settings for the daemon:

Option	Description
Give full daemon access to all selected users and roles	Any user or role can access this daemon.
Allow daemon write or execute access to be configured per user or role	Select which users and roles can read, write, or execute on a daemon.
Allow user and role access to be further restricted per job	The most restrictive permissions setting. Select which users and roles can read, write, or execute on a daemon. Also set which jobs user and roles can read, write, or execute.

- Do one or both of the following under **User and Roles**:



Option	Description
Available Users	Use > to add users from Available Users to Selected Users .
Available Roles	Use > to add roles from Available Roles to Selected Roles .

- [Optional] Select **Write** or **Execute** permissions for each user or role.
Read is a default permission.
- Select **Apply**.

Adding the Data Mover Portlet to the Viewpoint Homepage

Prerequisite:

Install the Data Mover portlet package on a Viewpoint server to add it to the Viewpoint homepage. To install the Data Mover portlet package, search for *Installing or Upgrading the Data Mover Portlet* in *Teradata® Data Mover Installation, Configuration, and Upgrade Guide for Customers*.

- From the Viewpoint home page, select **ADD CONTENT** in the upper right-hand corner.
- On the **Add Content** page, under **Application**, find and select **Data Mover**.
- Select **ADD**.

Credentials for Portlet

Before running Data Mover jobs, credentials for the source and target system must be set up. Credentials require that users and roles have permissions to move objects, such as tables or views.

System credentials can be created as [user pools](#) in the Data Mover Setup portlet or by manually adding users as plain text while [creating a job](#).

See the *Teradata® Data Mover User Guide*, B035-4101 for detailed information on editing system credentials.

User Pool Credentials

Create user ID pools for the daemon before setting up user pool credentials.

1. From the **Data Mover Setup** portlet, select the daemon to add the user ID pool.
2. Select **ID Pools** from the **Daemon Setup** column.
3. Select **+** next to **ID Pools**.
4. Enter a pool name and select **System Credentials**.
5. For detailed information on configuring ID pool options, refer to the *Teradata® Data Mover User Guide*, B035-4101.

Creating a Job in the Data Mover Portlet

For more advanced job creation, such as creating partial copies and setting data streams, see the *Teradata® Data Mover User Guide*, B035-4101 for information.

1. From the Data Mover portlet, select **New Job**.

The screenshot shows the Data Mover portlet interface. At the top, there's a header with 'Data Mover' and 'dm-agent7'. Below it, there are two tabs: 'SAVED JOBS' and 'JOB HISTORY'. Under 'SAVED JOBS', there's a 'NEW JOB' button. Below the button, there's a summary table with the following data:

258	227	0	11	0
Total	Compl...	Running	Failed	Qui

Below the summary table, there's a table with columns 'NAME' and 'STATUS'. The 'NAME' column has a search box with 'job' entered. The 'STATUS' column has a dropdown arrow. The table contains the following rows:

NAME	STATUS
job_DM-13605_1_2i	NEW
job_DM-13605_1_2i	NEW
job_DM-3128_20_2i	COMPLETED SUCCESSFULLY

2. From the **New Job** window, select **Edit** to enter credentials for both the source and target systems.
3. In the **Edit Credentials** window, select one of the following from the **Credential Type** list:

Edit Credentials

System Type:

Credential Type:

System:

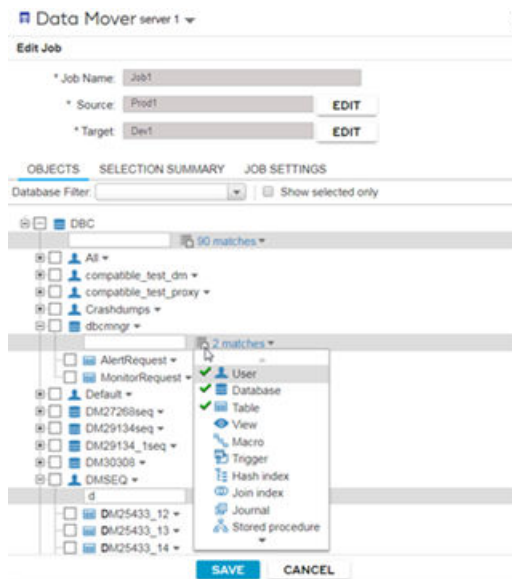
System:

ID Pool:

Username:

Option	Description
Free Form Credentials	If ID pools have not been created, you can manually add credential information by entering a Username and Password in plain text.
ID Pool	If ID pools have been created, you can add an existing ID pool. Both the source and target systems must use the same ID pool.

- Complete the credential requirements and the new job information, refer to the *Teradata® Data Mover User Guide*, B035-4101 for more information.
- From the **Objects** tab, expand the database (DBC) and select the object types from the drop down menu.



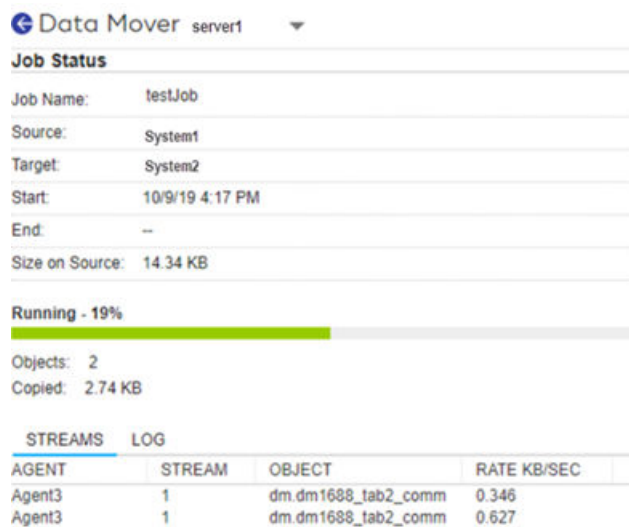
- From the **Selection Summary** tab, review the selected objects.
 - From the **Job Settings** tab, select **True** for **Allow Overwrite**.
 - Select **Save**.
- The job populates automatically on the Data Mover portlet page.

Starting a Job from the Portlet

1. From the Data Mover portlet, select ▼ next to the job name.
2. Select **Run** from the drop-down list.

Checking Job Status from the Portlet

1. From the Data Mover portlet, select the **Job History** tab.
2. Select ▼ next to the finished job name.
3. Select **Status** to view the job status.



Command-Line Quick Start

The Data Mover command line provides a list of commands to create, run, and check the status of jobs. Every command is capable of accepting the following:

- XML file – a file defining all the parameter values needed for the commands, typically used for scripting repetitive commands.
- Command parameters – manually entering job parameters at the command prompt.

If a parameter value is provided in both the command line parameters and an XML file, the command line value overwrites the value provided in the XML file.

The information in this section describes how to perform the following steps:

- Retrieve a job definition created in the portlet as an .xml file
- Create another job definition by modifying the .xml file

For information on creating a command line job from scratch, refer to the command line information in the *Teradata® Data Mover User Guide*, B035-4101.

Get job definition

The `list_job_definition` command returns a job definition in XML format.

The following example returns the job definition that was created in the portlet section of this guide by entering `datamover list_job_definiton -job_name testJob` in the command line.

```
<?xml version="1.0" encoding="UTF-8" standalone="yes"?>
<dmCreate xmlns="http://schemas.teradata.com/dataMover/v2009"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xsi:schemaLocation="http://
schemas.teradata.com/unity/DataMover.xsd">
  <job_name>testJob</job_name>
  <job_priority>MEDIUM</job_priority>
  <source_tdpid>systemA</source_tdpid>
  <source_user></source_user>
  <source_password></source_password>
  <source_logon_mechanism></source_logon_mechanism>
  <target_tdpid>systemB</target_tdpid>
  <target_user></target_user>
  <target_password></target_password>
  <target_userid_pool>pool_pool</target_userid_pool>
  <use_userid_pool>false</use_userid_pool>
  <data_streams></data_streams>
  <source_sessions></source_sessions>
  <target_sessions></target_sessions>
```

```

<max_agents_per_task></max_agents_per_task>
<overwrite_existing_objects>TRUE</overwrite_existing_objects>
<freeze_job_steps>FALSE</freeze_job_steps>
<compare_ddl>UNSPECIFIED</compare_ddl>
<log_level>1</log_level>
<online_archive>UNSPECIFIED</online_archive>
<dsa_options>
  <parallel_builds>0</parallel_builds>
</dsa_options>
<db_client_encryption>UNSPECIFIED</db_client_encryption>
<database selection="unselected">
  <name>DBC</name>
  <database selection="unselected">
    <name>DM</name>
    <table selection="included">
      <name>DM1688_tab2_comm</name>
    </table>
    <table selection="included">
      <name>DM1688_tab1_comm</name>
    </table>
  </database>
</database>
<query_band>ApplicationName1=DM;Version=16.20.99.00;</query_band>
<command_start_time>2019-10-10T10:48:33.497-07:00</command_start_time>
</dmCreate>

```

Create Job with XML

Use an existing XML file as a template to create a new job using the create command. The new job can define a different source and target system, database, and objects than the original XML file.

The following example updates the database section to move tableA from databaseA using the datamove create -job_name testJob2 -f testJob.xml command. The example is a subsection of the XML:

```

<database selection="unselected">
  <name>databaseA</name>
  <table selection="included">
    <name>tableA</name>
  </table>
</database>

```

Start Job

Use the start command to start a job as in the following example:

```
datamove start -job_name job1
```

Append the command with `-sync` to start the job in synchronized mode.

Move Job

Use the move command to create and start a job within a single step as in the following example:

```
datamove move -f job.xml
```

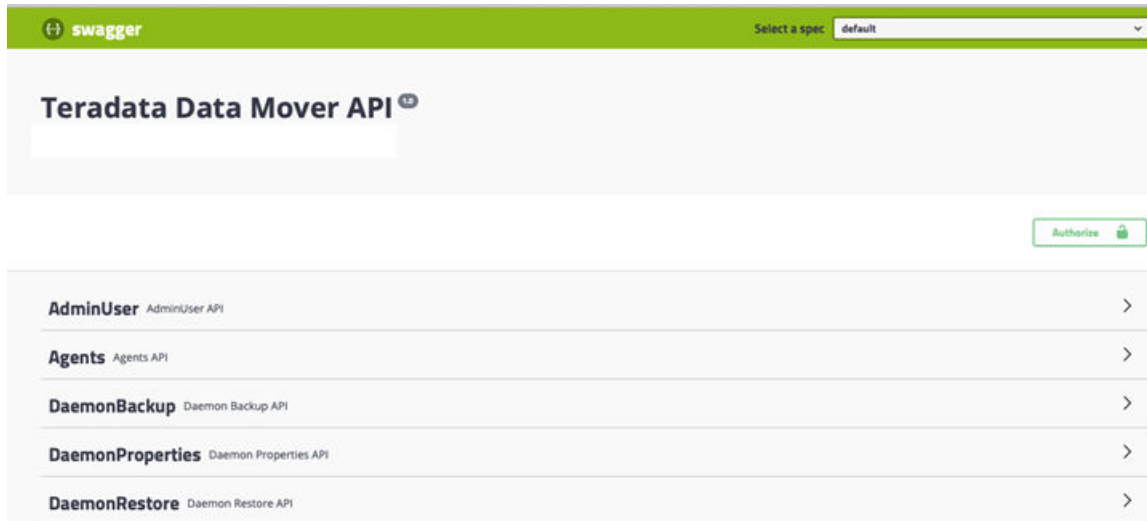
Check Job Status

Use the status command to show the status of the most recently run jobs:

```
datamove status -job_name testJob3 -output_level4
```

REST Quick Start

REST provides a list of endpoints to create, run, and check on the status of jobs. This section shows how to use the Swagger user interface to interact with the Data Mover REST API to run new and existing jobs.



For more details on REST, refer to the *Teradata® Data Mover User Guide*, B035-4101.

Enabling Swagger

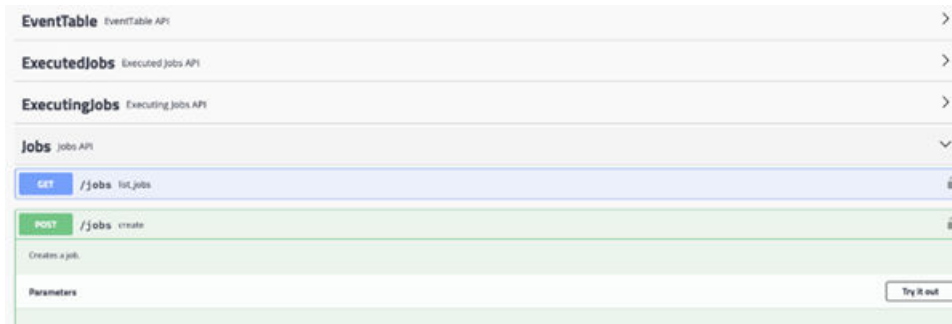
The Swagger user interface is disabled by default in the Data Mover REST API. Perform the following steps to enable Swagger:

1. From the active Data Mover server, set **swagger.ui.enabled=true** in `/etc/opt/teradata/datamover/tdmrest.properties`.
2. Restart the tdmrest component:
`/etc/init.d/tdmrest stop`
`/etc/init.d/tdmrest start`

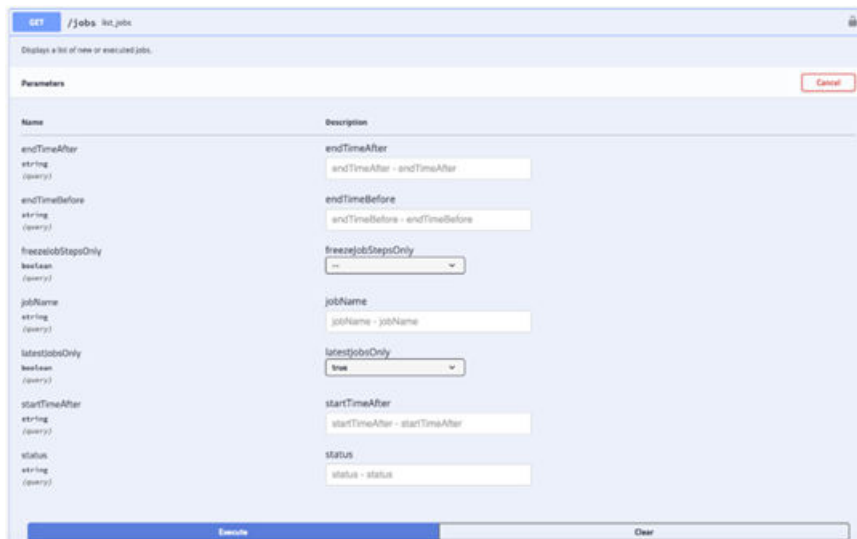
Getting Job List

Use the Swagger interface to list the available jobs.

1. Go to `https://dm-host:1443/datamover/swagger-ui.html`.
2. Select **Jobs** from the REST resource list.



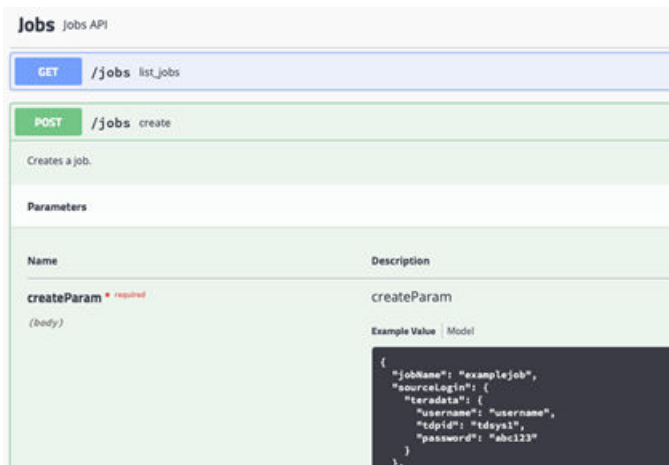
3. Select **GET /jobs list_jobs** from the API list.
4. Select the **Try it out** button.
5. Enter any necessary parameters.



6. Select **Execute** to generate a list of all jobs.
7. Review the **Responses** section to view results.

Creating a Job with Swagger

1. Go to <https://dm-host:1443/datamover/swagger-ui.html>.
2. Select the **POST /jobs create** API underneath **Jobs API**.



3. Select the **Try it out** button to view the parameters for the API.
4. Edit the example **createParam** JSON or modify it using the following template:

```
{
  "jobName": "examplejob",
  "sourceLogin": {
    "teradata": {
      "username": "username",
      "tdpid": "tdsys1",
      "password": "abc123"
    }
  },
  "targetLogin": {
    "teradata": {
      "username": "username",
      "tdpid": "tdsys2",
      "password": "abc123"
    },
    "useTargetUserIdPool": false
  },
  "settings": {
    "priority": "HIGH",
    "overwriteExistingObjects": true,
    "freezeJobSteps": true,
    "logLevel": "0"
  },
  "objects": {
    "database": [
      {
        "name": "db1",
        "selection": "UNSELECTED",
```

```

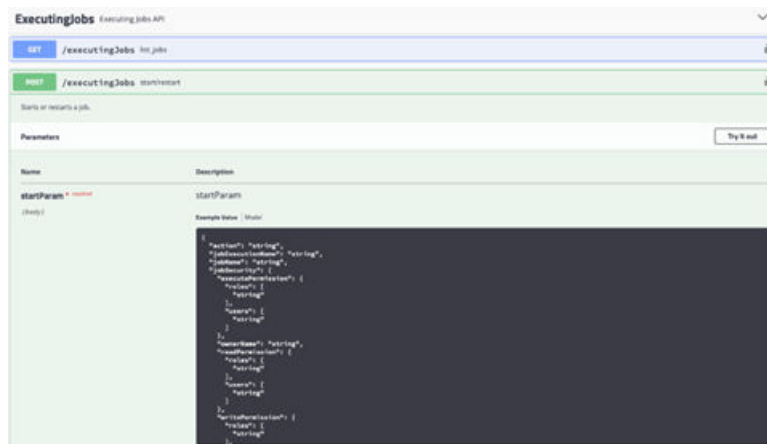
    "table": [
      {
        "name": "table1",
        "useSourceStagingTable": false,
        "forceTargetStagingTable": false,
        "validateRowCount": "NONE",
        "selection": "INCLUDED",
        "teradataParameters": {
          "allowTPTLoadMultiset": false,
          "overrideLockAccess": false
        }
      }
    ]
  }
}

```

5. Select **Execute**.
6. Review the **Responses** section to confirm the job was successful.

Starting a Job with Swagger

1. Go to <https://dm-host:1443/datamover/swagger-ui.html>.
2. Go to **POST /executingJobs start/restart** API under the **ExecutingJobs** API.



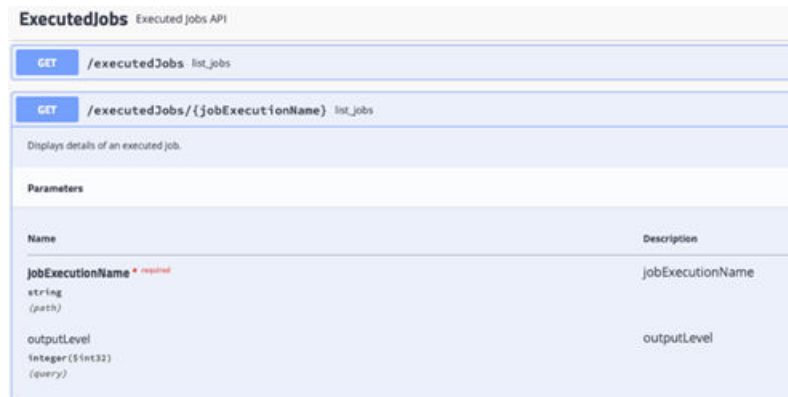
3. Select the **Try it Out** button.
4. Replace the **startParam** JSON with the job name.

```
{ "jobName" : "examplejob" }
```
5. Select **Execute**.

- Review the **Responses** section to confirm the job was successful.

Checking Job Status with Swagger

- Go to <https://dm-host:1443/datamover/swagger-ui.html>.
- Go to the **GET /executedJobs/{jobExecutionName} list_jobs** API underneath the **ExecutedJobs** API.



- Select the **Try it Out** button.
- Replace **jobExecutionName** with the job name.
- Select **Execute**.
- Review the **Responses** section for results.

Additional Information

Changes and Additions

Date	Release	Description
July 2020	1.0	Initial release.

Teradata Links

Link	Description
https://docs.teradata.com/	Search Teradata Documentation, customize content to your needs, and download PDFs. Customers: Log in to access Orange Books.
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https://www.teradata.com/University/Overview	Teradata education network
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Related Documentation

Title	Publication ID
<i>Teradata® Data Mover Installation, Configuration, and Upgrade Guide for Customers</i> Describes how to configure Teradata Data Mover software.	B035-4102
<i>Teradata® Viewpoint User Guide</i> Describes the Teradata Viewpoint portal, portlets, and system administration features.	B035-2206
<i>Teradata® Ecosystem Manager User Guide</i> Describes how to use Teradata Ecosystem Manager portlets.	B035-3201
<i>Teradata® Database JSON Data Type</i> Describes Teradata support for JSON data.	B035-1150

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