

1.19.

Creating and managing CDE Sessions

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Creating Sessions in Cloudera Data Engineering

A Cloudera Data Engineering (CDE) Session is an interactive short-lived development environment for running Spark commands to help you iterate upon and build your Spark workloads.

About this task

The commands that are run in a CDE Session are called Statements. You can submit the Statements through the connect CLI command or the Interact tab in the CDE UI for a Session. Python and Scala are the supported Session types. Learn how to use Cloudera Data Engineering (CDE) Sessions using the user interface and CLI.

Before you begin

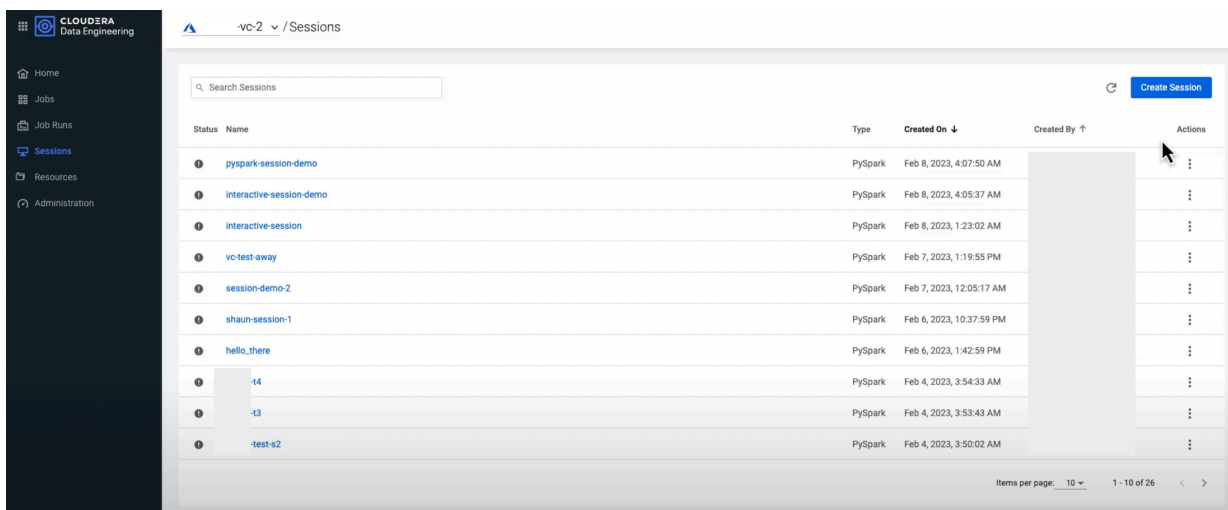


Important: You must create the cluster, initialize each cluster, and configure each user who need to run sessions before creating sessions.

In Cloudera Data Engineering (CDE), sessions are associated with virtual clusters. Before you can create a session, you must create a virtual cluster that can run it. For more information, see [Creating virtual clusters](#).

Procedure

1. In the Cloudera Data Platform (CDP) console, click the Data Engineering tile. The Home page displays.
2. Click Sessions in the left navigation menu and then click Create Session.



3. Enter a Name for the Session.
4. Select a Type, for example, PySpark or Scala.
5. Select a Timeout value.

The Session will stop after the indicated time has passed.

6. Optionally, enter a Description for the Session.
7. Optionally, enter the Configurations.
8. Set the Compute options.
 - Optional: GPU Acceleration (Technical Preview): You can accelerate your session using GPUs. Click Enable GPU Accelerations checkbox to enable the GPU acceleration and configure selectors and tolerations if you want to run the job on specific GPU nodes. When you run this session, this particular session will request GPU resources.

9. Under **Files and Resources**, you can upload Jar, Python, Egg, Zip, and other files. You can also add a resource, repositories, or a Python environment to be used in this session.

Files that are uploaded to a session are stored in the app/mount directory.

Files and Resources
Add files and mount resources to be used in this session

Files & Resources

Jar Files

Upload or Select from Resource

Python, Egg, Zip files

Upload or Select from Resource

Other Files

Upload or Select from Resource

Resources ⓘ

Add Resource

Repositories ⓘ

Add Repository

Python Environment ⓘ

Select Python Environment

Cancel Create

10. Click Create.

The Connect tab displays a list of connectivity options available to interact with the Session. The Interact tab allows you to interact with the Session, and becomes available once the Session is running.

11. To delete a Session, open the Session and click Delete.



Note: If you delete a Session, doing so will result in the termination of an active session and the loss of any attached logs and details.

Interacting with a Session in Cloudera Data Engineering

Once a Session is created in Cloudera Data Engineering (CDE), you can begin your interaction.

About this task

You can also interact with files that were uploaded to a Session. Those files are stored in the app/mount directory.

Procedure

1. In the Cloudera Data Platform (CDP) console, click the Data Engineering tile. The Home page displays.

2. Click Sessions in the left navigation menu.
3. Click the Interact tab.
4. In the Input box, enter your commands.
5. Click Run. A history of executed commands displays in the sequence of their execution.

Connecting Sessions with the CDE CLI

Once a Session is created in Cloudera Data Engineering (CDE), you can download the CDE CLI from the user interface then use the terminal on your local machine to set up the interactive session using the CDE CLI.

Procedure

1. In the Cloudera Data Platform (CDP) console, click the Data Engineering tile. The Home page displays.
2. Click Sessions in the left navigation menu.
3. Click the Connect tab.
4. Download the CDE CLI.
5. Use the CDE CLI to run and connect interactive commands:
 - a) Copy the command that displays.
 - b) Paste the command in the CDE CLI and continue to interact with your session.

Viewing logs for Cloudera Data Engineering Sessions

Once a Session is created in Cloudera Data Engineering (CDE), you can view logs of the Spark driver and executors from the Session.

Procedure

1. In the Cloudera Data Platform (CDP) console, click the Data Engineering tile. The Home page displays.
2. Click Sessions in the left navigation menu.
3. Click the Session name that you want to view the logs for.
4. Click the Logs tab.
5. In the Select Log Type drop-down, select the Driver or Executor that you want to view the logs for.
6. Click Download All Logs to save your log files.