

CDP Public Cloud

## CDP SDK

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# CLOUDERA

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## Overview of the CDP SDK for Java

You can use the CDP SDK for Java to integrate CDP services with your applications. Use the CDP SDK to connect to CDP services and create and manage clusters and run jobs from your Java application or other data integration tools that you use in your organization.

[Comprehensive Java documentation](#) is available on Cloudera's Github. The [CDP SDK repository](#) is also available.

To use the CDP SDK for Java, you must have a CDP account and a user account or machine user account with the appropriate role and environment to enable you to perform your required tasks in CDP.

## Prerequisites for using the CDP SDK for Java

Before you use the CDP SDK to perform the tasks from an application, we recommend that you first verify that you can perform the tasks on the CDP console or through the CLI.

When you are able to successfully create clusters and run jobs on the Management Console or by using the CLI, use the CDP SDK to create clusters and run jobs from your application.

## Using the CDP SDK for Java

You must download the SDK Jar file, set up your access key, create your application, and run the CDP SDK sample applications.

### About this task

To use the CDP SDK for Java, complete the following steps:

### Procedure

1. Download the latest version of the CDP SDK jar files from the [CDP SDK repository](#).
2. Set up your API access credentials. CDP uses an access key to manage access to CDP services through the CDP API. You must set up the API credentials for your application.
  - Use the Management Console to generate an access key. You must be a CDP administrator or have the IAM User role to generate an API access key.
  - If you are a CDP administrator, you can generate an access key for a user or machine user account. For more information, see *Generating an API access key* (for a long-lived API access key) or *Logging into the CDP CLI/SDK* (for a shorter-lived access key).
  - If you are a user with the IAM User role, you can generate an access key for your own user account.
  - You can set up the API access key for your application in one of the following ways:
    - Environment variable. For an example of how to set up the API access key in an environment variable, see the source code in the [CDPEnvironmentVariableCredentialsProvider.java](#) file.
    - Java system variable. For an example of how to set up the API access key in a Java system variable, see the source code in the [CDPSystemPropertiesCredentialsProvider.java](#) file.
    - CDP credentials file. For an example of how to set up the API access key in a CDP profile, see the source code in the [CDPProfileCredentialsProvider.java](#) file.
3. Create your application.
4. View or run the CDP SDK sample applications to understand how to use the CDP API to access CDP services.