

Models

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CLOUDERA

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Securing Models

You can secure your Cloudera AI models using Access keys or API keys.



Important: Cloudera on cloud allows customers to maintain full ownership and control of their data and workloads and is designed to operate in some of the most restricted on cloud environments. Since Cloudera on cloud runs in a customer's cloud account, Security and Compliance is a shared responsibility between Cloudera and its on cloud customers. For more information, see *Cloudera's Shared Responsibility Model*.

Access Keys for Models

Each model in Cloudera AI has a unique access key associated with it. This access key is a unique identifier for the model.

Models deployed using Cloudera AI are not public. In order to call an active model your request must include the model's access key for authentication (as demonstrated in the sample calls above).

To locate the access key for a model, go to the model Overview page and click Settings.

The screenshot shows the 'Settings' tab for a model named 'Add Two Numbers'. The 'Access Key' field displays the value 'mgc4w3rdi43x28fy4h8e8swsda4jyfoq'. A blue arrow points from the text 'Access Key is required to make requests on this model' to the access key field. A 'Regenerate' button is visible next to the access key field.



Important:

Only one access key per model is active at any time. If you regenerate the access key, you will need to re-distribute this access key to users/applications using the model.

Alternatively, you can use this mechanism to revoke access to a model by regenerating the access key. Anyone with an older version of the key will not be able to make calls to the model.

API Key for Models

You can prevent unauthorized access to your models by specifying an API key in the **Authorization** header of your model HTTP request. This topic covers how to create, test, and use an API key in Cloudera AI.

The API key governs the authentication part of the process and the authorization is based on what privileges the users already have in terms of the project that they are a part of. For example, if a user or application has read-only access to a project, then the authorization is based on their current access level to the project, which is “read-only”. If the

users have been authenticated to a project, then they can make a request to a model with the API key. This is different from the previously described Access Key, which is only used to identify which model should serve a request.

Enabling authentication

Restricting access using API keys is an optional feature. By default, the **Enable Authentication** option is turned on. However, it is turned off by default for the existing models for backward compatibility. You can enable authentication for all your existing models.

To enable authentication, go to **Projects Models Settings** and check the **Enable Authentication** option.



Note: It can take up to five minutes for the system to update.

Generating an API key

If you have enabled authentication, then you need an API key to call a model. If you are not a collaborator on a particular project, then you cannot access the models within that project using the API key that you generate. You need to be added as a collaborator by the admin or the owner of the project to use the API key to access a model.

About this task

There are two types of API keys used in Cloudera AI:

- **API Key:** These are used to authenticate requests to a model. You can choose the expiration period and delete them when no longer needed.
- **Legacy API Key:** This is used in the CDSW-specific internal APIs for CLI automation. This cannot be deleted and neither does it expire. This API Key is not required when sending requests to a model.

You can generate more than one API keys to use with your model, depending on the number of clients that you are using to call the models.

Procedure

1. Sign in to Cloudera AI.
2. Click **Settings** from the left navigation pane.
3. On the **User Settings** page, click the **API Keys** tab.
4. Select an expiry date for the **Model API Key**, and click **Create API keys**.

An API key is generated along with a **Key ID**.

If you do not specify an expiry date, then the generated key is active for one year from the current date, or for the duration set by the Administrator. If you specify an expiration date that exceeds the duration value set by the Administrator, you will get an error. The Administrator can set the default duration value at **Admin Security Default API keys expiration in days**.



Note:

- The API key is private and ephemeral. Copy the key and the corresponding key ID on to a secure location for future use before refreshing or leaving the page. If you miss storing the key, then you can generate another key.
- You can delete the API keys that have expired or no longer in use. It can take up to five minutes by the system to take effect.

5. To test the API key:

- a) Navigate to your project and click Models from the left navigation pane.
- b) On the **Overview** page, paste the API key in the API key field that you had generated in the previous step and click Test.

The test results, along with the HTTP response code and the Replica ID are displayed in the Results table.

If the test fails and you see the following message, then you must get added as a collaborator on the respective project by the admin or the creator of the project:

```
"User APIkey not authorized to access model": "Check APIKEY permissions or model authentication permissions"
```

Managing API Keys

The administrator user can access the list of all the users who are accessing the workbench and can delete the API keys for a user.

About this task

To manage users and their keys:

Procedure

1. Sign in to Cloudera AI as an administrator user.
2. From the left navigation pane, click Admin.
The **Site Administration** page is displayed.
3. On the **Site Administration** page, click on the Users tab.
All the users signed under this workbench are displayed.
The API Keys column displays the number of API keys granted to a user.
4. To delete a API key for a particular user:
 - a) Select the user for which you want to delete the API key.
A page containing the user's information is displayed.
 - b) To delete a key, click Delete under the Action column corresponding to the Key ID.
 - c) Click Delete all keys to delete all the keys for that user.



Note: It can take up to five minutes by the system to take effect.

As a non-admin user, you can delete your own API key by navigating to **Settings User Settings API Keys**.