

## CLI Commands

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# CLOUDERA

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## CDP CLI commands

You can learn about the various CDP CLI commands. You can run these commands to do administration and management tasks like create or describe a Cloudera Operational Database instance. Users who have the Cloudera PowerUser role can run any command, regardless of whether they have the ODUser or ODAAdmin role.

### Download the CDP CLI tool

Before you can use the operational database CLI commands, you must download the CDP CLI client for your operating system. For more information about downloading the CDP CLI client, see [Installing Cloudera client](#).

You can see all the commands and their syntax in the *CDP CLI command reference GitHub* page.

You can see all the CDP CLI BETA commands and their syntax in the *CDP CLI BETA command reference GitHub* page.

**Table 1: CDP CLI commands**

| Command                      | Description  | Required Role |
|------------------------------|--|---------------|
| create-database              | Create a database with the provided name in a given environment.   | ODAdmin       |
| describe-client-connectivity | List the available connectors to programmatically interact with the database and required information to use each connector. | ODUser        |
| describe-database            | Query the details of a database.   | ODUser        |
| describe-upgrade-database    | Describes the upgrade availability.  | ODUser        |
| drop-database                | Stop and destroy the database. Data remains in the configured cloud storage.   | ODAdmin       |
| list-databases               | List all databases which the user has permission to view.  | ODUser        |
| start-database               | Start an existing database.  | ODAdmin       |
| stop-database                | Stop a database.   | ODAdmin       |
| collect-diagnostics          | A link to the download location of the diagnostics bundle.   | ODAdmin       |
| list-diagnostics             | Returns list of diagnostics collections  | ODAdmin       |
| list-supported-environments  | List of environments available for the database creation.  | ODAdmin       |

When you run the `cdp opdb` commands, you must provide your Cloudera Operational Database database name and the Cloudera environment name as parameters as shown in this example:

```
cdp opdb describe-database --database-name [***MY DATABASE NAME***] --environment-name [***MY CLOUDERA ENVIRONMENT NAME***]
```

### Related Information

[CDP CLI command reference GitHub repository](#)

[CDP CLI BETA command reference GitHub repository](#)

## CDP CLI Beta command reference

You can learn about the various CDP CLI Beta commands. You can run these commands to do administration and management tasks like create or describe a Cloudera Operational Database instance. To use any of the CDP CLI beta commands for Operational Database, you need to download and install the latest CDP CLI beta version.

### Install CDP CLI Beta

To install CDP CLI Beta, see *Installing Beta CDP CLI*.

You can see all the CDP CLI Beta commands and their syntax in the *CDP CLI BETA command reference GitHub* page.

### Related Information

[Installing Beta CDP CLI](#)

[CDP CLI command reference GitHub repository](#)

[CDP CLI BETA command reference GitHub repository](#)

## --custom-user-tags in Operational Database

You can identify and monitor infrastructure resources that are launched in your AWS account by applying the --custom-user-tags. This is an optional tag. You can apply the --custom-user-tags tags after creating the Cloudera environment. For Cloudera Operational Database, use this feature by running the following command in the CDP CLI beta version:

```
`cdp opdb create-database --custom-user-tags`
```

For example:

```
`cdp opdb create-database --custom-user-tags key=name1,value=value1  
key=name2,value=value2 --database-name ... --environment-name ...`
```

Following is the code snippet:

```
<snip>  
--custom-user-tags (array) Optional tags to apply to launched i  
nfra-  
structure resources  
  
Shorthand Syntax:  
  
    key=string,value=string ... (separate items with spaces)  
  
JSON Syntax:  
    [  
      {  
        "key": "string",  
        "value": "string"  
      }  
      ...  
    ]  
</snip>
```

## Examples for identifying resources

You can identify and monitor various resources within the Cloudera Operational Database experience for AWS environments.

The following are the various resources that you can identify and monitor:

- Database names in operational database with custom-user level tags
- EC2 instances
- RDS database instances

For example, if you run the following command through CDP CLI beta version, You can view the AWS EC2 and RDS resources launched by Cloudera Operational Database.

```
cdp.sh opdb create-database --environment-name <env-name> --database-name <d
b-name>
--custom-user-tags key=tag1,value=example key=tag2,value=value
```

Figure 1: Example of AWS EC2 resource

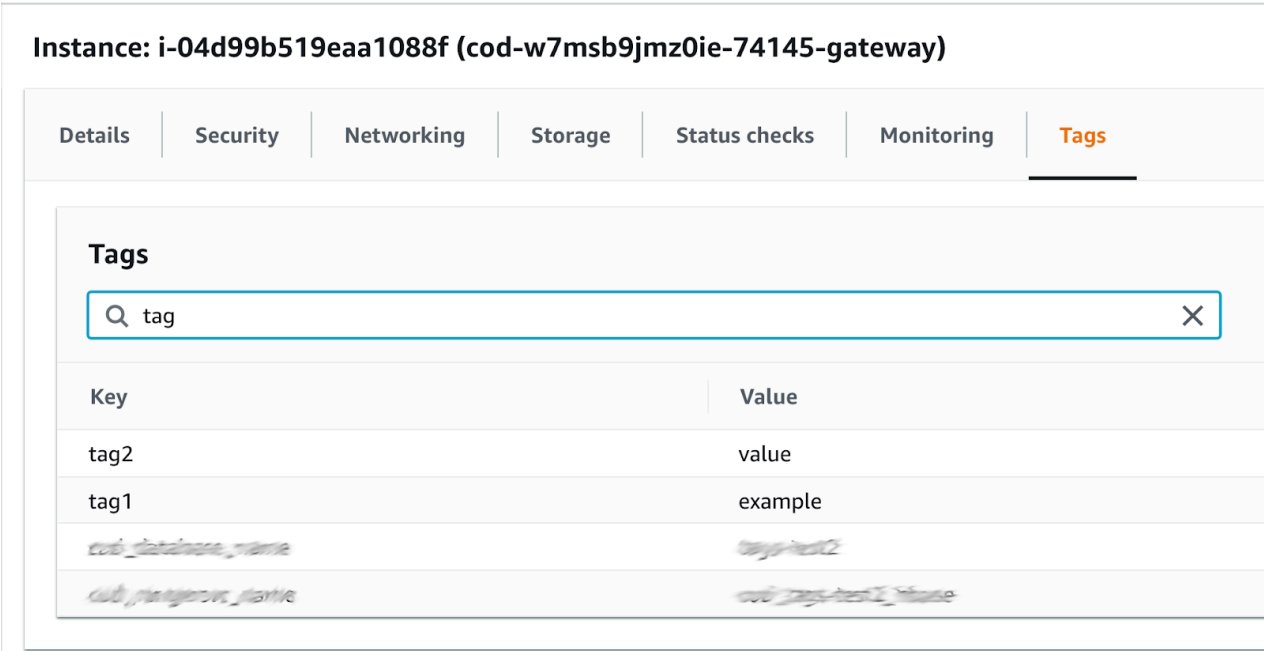


Figure 2: Example of RDS resource

dbsvr-3abd9bf4-bd28-4186-bd9d-1482947c46ab

**Summary**

DB identifier

dbsvr-3abd9bf4-bd28-4186-bd9d-1482947c46ab

CPU

 4.83%

Status

 Available

Role

Instance

Current activity

 14 Connections

Engine

PostgreSQL

Connectivity &amp; security

Monitoring

Logs &amp; events

Configuration

Maintenance &amp; backups

**Tags****Tags (16)**

Q tag

X

☐

Tags

▲

Value

☐

tag1

example

☐

tag2

value

☐

tag1

example

☐

tag2

value

## Install CDP CLI beta

If you would like to apply custom user tags on Operational Database through CDP CLI, you need to download and install CDP CLI beta version 0.9.40.

### Before you begin

Do not install both the regular and beta CLIs in the same Python environment, as they use the same entry points and will therefore conflict. Either use a separate virtual environment or uninstall the `cdpcli` first before installing `cdpcli-beta`.

### Procedure

1. Install Python if needed, as described in [CDP CLI documentation](#) for your platform.  
Do not install CDP CLI. Instead, proceed to step 2.
2. Run the following to install CDP CLI beta:

```
pip3 install cdpcli-beta
```

3. Configure access keys as described in [Generating an API access key](#)