Scaling Cloudera Operational Database instances vertically (Preview)

Date published: 2023-05-10
Date modified: 2024-10-01

Legal Notice

This document has been released as part of a technical preview for features described herein. Technical preview components are provided as a convenience to our customers for their evaluation and trial usage. These components are provided ‘as is’ without warranty or support. Further, Cloudera assumes no liability for the usage of technical preview components, which should be used by customers at their own risk.

Contents

Scaling Cloudera Operational Database instances vertically

You can scale up a Cloudera Operational Database (COD) cluster vertically, which means upgrading a COD cluster from a LIGHT duty to a HEAVY duty instance type. You can only upgrade COD clusters belonging to the Gateway and Master nodes.

About this task

Selecting a larger instance type adds more vCPU and/or RAM to your instances. You can scale up instances from LIGHT to HEAVY using the CDP CLI command tool.

Before you begin

- You must stop the COD cluster before you vertically scale any of the instances.
- You must grant **CDP_CB_AWS_VERTICAL_SCALE** entitlement for the specific tenant.
- You must stop EBS-backed instances before scaling. Vertical scaling is supported on AWS only. See Change the instance type in AWS documentation for more information.
- You must ensure that the COD clusters belong only to Gateway nodes or Master nodes.
- You must download and install the latest CDP CLI beta version. For more information, see, Installing Beta CDP CLI.

Steps

1. Log in to the CDP CLI command tool.
2. Run the following command

   ```
   cdp opdb update-database --environment <environment_name>
   --database <database_name> --vertical-scale
   <Group_type_for_the_database_nodes>
   ```

   The following are the possible values for the group type for the database nodes:

   - **GATEWAY**: Value of the group variable as GATEWAY.
   - **MASTER**: Value of the group variable as MASTER.

For example,

```
cdp opdb update-database --environment-name cod-7216-micro10
--database-name odx2408 --vertical-scale MASTER
```

After you finish

Start the cluster after you have vertically scaled it. You can also configure the services on the cluster to use the additional or reduced resources/memory.