

Monitoring

Date published: 2020-08-17

Date modified: 2022-09-16



Legal Notice

© Cloudera Inc. 2024. All rights reserved.

The documentation is and contains Cloudera proprietary information protected by copyright and other intellectual property rights. No license under copyright or any other intellectual property right is granted herein.

Unless otherwise noted, scripts and sample code are licensed under the Apache License, Version 2.0.

Copyright information for Cloudera software may be found within the documentation accompanying each component in a particular release.

Cloudera software includes software from various open source or other third party projects, and may be released under the Apache Software License 2.0 (“ASLv2”), the Affero General Public License version 3 (AGPLv3), or other license terms. Other software included may be released under the terms of alternative open source licenses. Please review the license and notice files accompanying the software for additional licensing information.

Please visit the Cloudera software product page for more information on Cloudera software. For more information on Cloudera support services, please visit either the Support or Sales page. Feel free to contact us directly to discuss your specific needs.

Cloudera reserves the right to change any products at any time, and without notice. Cloudera assumes no responsibility nor liability arising from the use of products, except as expressly agreed to in writing by Cloudera.

Cloudera, Cloudera Altus, HUE, Impala, Cloudera Impala, and other Cloudera marks are registered or unregistered trademarks in the United States and other countries. All other trademarks are the property of their respective owners.

Disclaimer: EXCEPT AS EXPRESSLY PROVIDED IN A WRITTEN AGREEMENT WITH CLOUDERA, CLOUDERA DOES NOT MAKE NOR GIVE ANY REPRESENTATION, WARRANTY, NOR COVENANT OF ANY KIND, WHETHER EXPRESS OR IMPLIED, IN CONNECTION WITH CLOUDERA TECHNOLOGY OR RELATED SUPPORT PROVIDED IN CONNECTION THEREWITH. CLOUDERA DOES NOT WARRANT THAT CLOUDERA PRODUCTS NOR SOFTWARE WILL OPERATE UNINTERRUPTED NOR THAT IT WILL BE FREE FROM DEFECTS NOR ERRORS, THAT IT WILL PROTECT YOUR DATA FROM LOSS, CORRUPTION NOR UNAVAILABILITY, NOR THAT IT WILL MEET ALL OF CUSTOMER’S BUSINESS REQUIREMENTS. WITHOUT LIMITING THE FOREGOING, AND TO THE MAXIMUM EXTENT PERMITTED BY APPLICABLE LAW, CLOUDERA EXPRESSLY DISCLAIMS ANY AND ALL IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO IMPLIED WARRANTIES OF MERCHANTABILITY, QUALITY, NON-INFRINGEMENT, TITLE, AND FITNESS FOR A PARTICULAR PURPOSE AND ANY REPRESENTATION, WARRANTY, OR COVENANT BASED ON COURSE OF DEALING OR USAGE IN TRADE.

Contents

Monitoring Data Warehouse service resources with Grafana dashboards.....	4
Connecting to Grafana dashboards in Cloudera Data Warehouse Private Cloud.....	4

Monitoring Data Warehouse service resources with Grafana dashboards

Grafana is visualization and analytics software that enables development of dashboards to monitor metrics data. You can access pre-built Grafana dashboards to monitor Virtual Warehouses and your compute cluster in Cloudera Data Warehouse (CDW).

You can view the CPU, memory, network usage, and disk input-output for each CDW node using the `[***ENVIRONMENT-NAME***]-Nodes` option. You can also expand the individual dashboards to see more details, as described in the following table:

Dashboard name	Description	Available metrics
CPU	CPU utilization per node	<ul style="list-style-type: none">Usage per nodeUsage per userUsage per systemIdle timeIO wait
Memory	Memory utilization per node	<ul style="list-style-type: none">Usage per nodeBuffer cachePage cacheTotal, used, and available
Network	Number of bytes and packets sent and received	<ul style="list-style-type: none">Network transmittedNetwork receivedNetwork transmitted by an interfaceNetwork received by an interface
Disk	Disk bytes read and written	<ul style="list-style-type: none">Bytes writtenBytes readIO wait time



Note: Node-level metrics are currently available only for ECS environments.

For more information about Grafana, see the link to Grafana documentation at the bottom of this page.

Related Information

[Grafana documentation](#)

Connecting to Grafana dashboards in Cloudera Data Warehouse Private Cloud

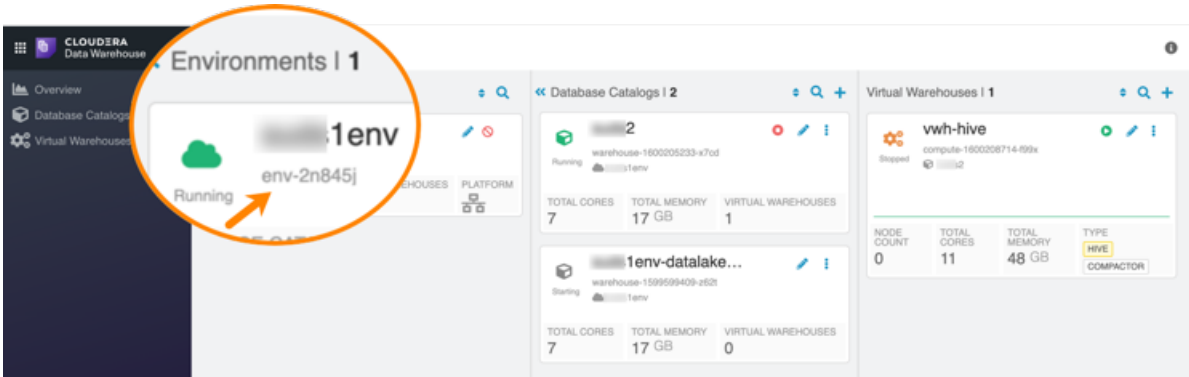
This topic describes how to connect to Grafana dashboards to monitor your Virtual Warehouses in Cloudera Data Warehouse (CDW) Private Cloud.

Before you begin

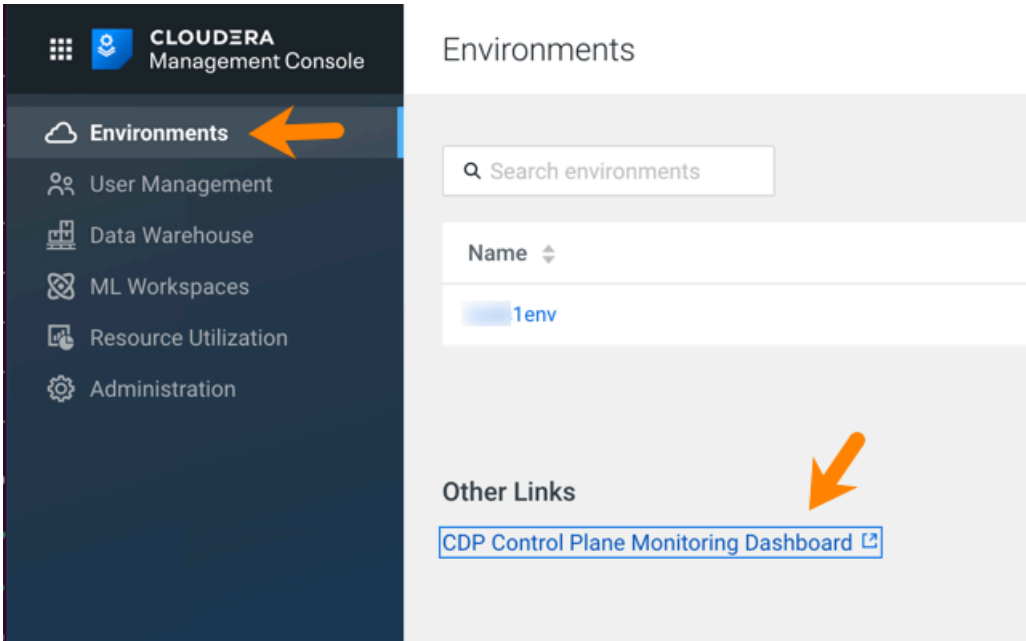
To access Grafana from an environment in CDW service, the environment must be assigned to you as a resource by using Management Console. For instructions, see the links at the bottom of this page.

Procedure

1. In the CDW service, select Overview in the left navigation menu, expand the Environment column, and locate the environment that is associated with the Virtual Warehouse you want to monitor. Make note of the environment ID, which is displayed on the environment tile in the CDW UI:



2. Click the grid icon in the left navigation menu to expand the menu, and click Management Console.
3. In the Management Console UI make sure Environments is selected in the left navigation menu, and click the CDP Control Plane Monitoring Dashboard under Other Links in the central panel of the page:



This launches the Grafana dashboard.

4. In the Grafana dashboard, click the grid icon in the left navigation menu, and select Manage. A list of available monitoring dashboards is displayed:

CDW service area	Dashboard topics
CDP Control Plane	alerts generated by Management Console, pod status, including count, restarts, CPU usage, memory usage, and container memory and CPU usage
Data Warehouse compute	auto-scaling
Hive	Hive metastore, HiveServer2, Hive service (Hive-Home), and several dashboards for LLAP

CDW service area	Dashboard topics
Impala	Impala components: catalog server, coordinator, executor, statestore, and the overall Impala service (Impala-Home)
Hue	overall Hue service (Hue-Home)
Overview	Kubernetes alerts, pod status, pod CPU usage, pod memory usage, app CPU usage, app memory usage, container memory usage, container CPU usage
Nodes	CPU, memory, network usage and disk IO metrics at the node level for a given environment

Related Information

[Enabling admin and user access to environments](#)