Cloudera Data Warehouse Private Cloud 1.4.0

# Monitoring

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# 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 | • Usage per node<br>• Usage per user<br>• Usage per system<br>• Idle time<br>• IO wait |
| Memory | Memory utilization per node | • Usage per node<br>• Buffer cache<br>• Page cache<br>• Total, used, and available |
| Network | Number of bytes and packets sent and received | • Network transmitted<br>• Network received<br>• Network transmitted by an interface<br>• Network received by an interface |
| Disk | Disk bytes read and written | • Bytes written<br>• Bytes read<br>• IO 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

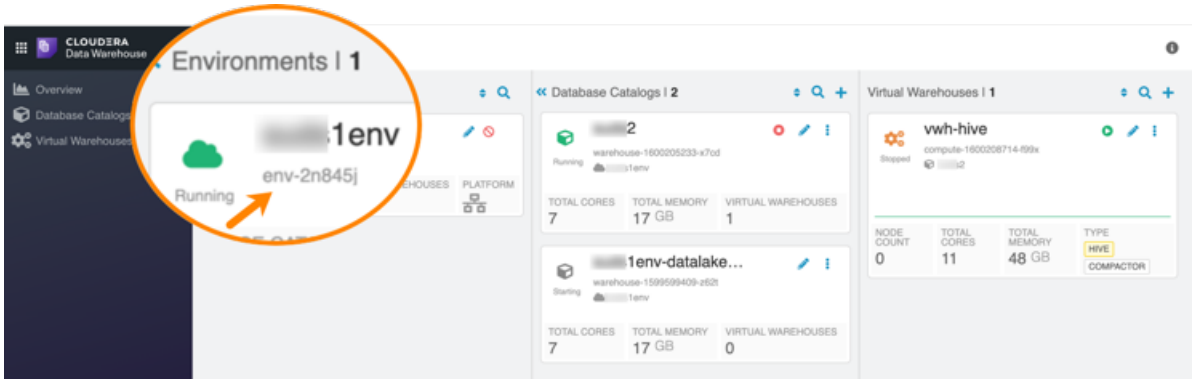
This topic describes how to connect to Grafana dashboards to monitor your Virtual Warehouses in Cloudera Data Warehouse (CDW) Private Cloud.

### Before you begin

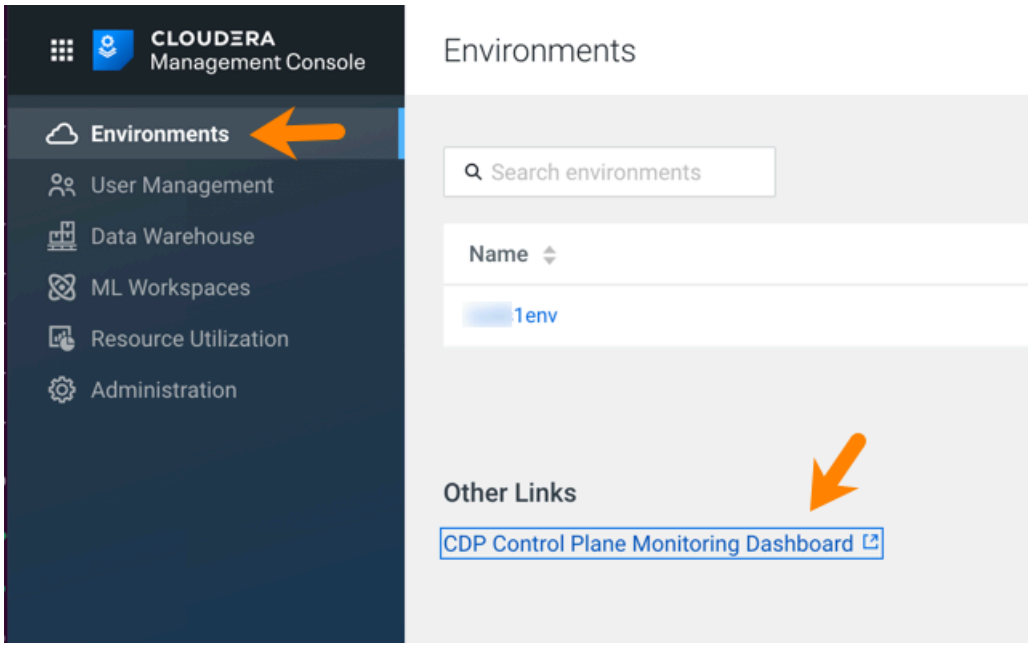
To access Grafana from an environment in CDW service, the environment must be assigned to you as a resource by using Management Console. For instructions, see the links at the bottom of this page.

## 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