

Using Cloudera Data Visualization in Cloudera Data Warehouse

Date published: 2020-10-30

Date modified: 2025-12-16

CLOUDERA

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Deploying Cloudera Data Visualization in Cloudera Data Warehouse

Learn how to create and launch a Cloudera Data Visualization instance within the Cloudera Data Warehouse data service. You can deploy Cloudera Data Visualization with Cloudera Data Warehouse in both Cloudera on cloud and Cloudera on premises to explore and visualize data stored in database catalogs.

About this task

The availability and behavior of Cloudera Data Visualization when deployed with Cloudera Data Warehouse depend on the Cloudera Data Warehouse version and the runtime versions used in your environment.

To create visualizations based on data stored in Cloudera Data Warehouse, you have to create a Cloudera Data Visualization instance and connect it to one or more Hive or Impala Virtual Warehouses.

Cloudera Data Visualization is not tied to a specific Virtual Warehouse. A single Cloudera Data Visualization instance can access data from multiple Data Catalogs using multiple Hive or Impala Virtual Warehouses across environments. With multiple Cloudera Data Visualization instances attached to an environment, you can connect to different datasets, create dashboards for different user groups, and share visualizations accordingly.



Note: When you delete a Virtual Warehouse, your visual artifacts remain intact as long as the Cloudera Data Visualization instance is not deleted.

Before you begin

Before deploying Cloudera Data Visualization in Cloudera Data Warehouse, make sure that the following prerequisites are met:

- You have reviewed the supported versions to confirm that this deployment option applies to your environment. For compatibility information, see the Cloudera Data Warehouse documentation:
 - [Version information for Cloudera Data Warehouse on cloud components](#)
 - [Version information for Cloudera Data Warehouse on premises components](#)
- You are logged into the Cloudera web interface and you have opened the Cloudera Data Warehouse service.
- You have DWAdmin role in Cloudera Data Warehouse.
- Your environment is activated.
- At least one Hive or Impala virtual warehouse is in running state.
- If you are using Cloudera Data Visualization with Cloudera Data Warehouse in Cloudera on premises:
An admin group is created in Management Console User Management .

For LDAP-based login, the Sync Groups on Login option is enabled from Management Console Administration Authentication , so that the required groups are imported when you log in to Cloudera Data Visualization.

Procedure

1. In Cloudera Data Warehouse, click Data Visualization in the left navigation panel.
A list of existing Cloudera Data Visualization instances appears, if there are any.

- Click ADD NEW to create a new instance.

If you are creating the first Cloudera Data Visualization instance in Cloudera Data Warehouse, click CREATE.

- Provide the following information in the **New Data Visualization** modal window:

Mandatory fields are marked with an asterisk.

- Name* – Specify a name for the instance.
- Environments* – Select the environment that you want Cloudera Data Visualization to be connected to.
- User Groups – Add user groups to allow user access to Cloudera Data Visualization for selected groups. If no group is added, all Cloudera users will have non-admin access.
- Admin Groups* – Add admin groups to allow configuration access to Cloudera Data Visualization for selected groups.

For more information on Cloudera Data Visualization permission granularity, see the *Security model*.

- Tagging – Enter keys and values to apply tags to your resources for organizing them into a taxonomy.



Note: This field is not available in Cloudera Data Warehouse on Cloudera on premises.

- Resource Template – Select the Cloudera Data Warehouse resource template from the drop-down menu.

You can use a predefined template or duplicate it to create a custom template to allocate Kubernetes resources based your workload requirements and node sizes. Each template has different overall CPU and memory allocations.

| Resource template | Description | CPU | Memory |
|-------------------|---|-----|----------|
| Default resources | Default resources for components inside Cloudera Data Visualization | 2 | 8192 MB |
| Medium resources | Double the resources for Cloudera Data Visualization compared to default. | 4 | 16384 MB |
| Large resources | Triple the resources for Cloudera Data Visualization compared to default | 6 | 24576 MB |

| Resource template | Description | CPU | Memory |
|-------------------|--|-----|---------|
| Reduced resources | Reduced resources for Cloudera Data Visualization, recommended only for initial exploration. | 0.5 | 8192 MB |

New Data Visualization X

Name *
Doc-demo-viz

Environments *
se-sandboxx-aws

User Groups i
Select Groups

You can select groups present in the CDP user management system. The group(s) must also exist in the external LDAP Identity Provider. Nested groups are not supported. Only users that are direct members of the group are allowed access.

Admin Groups * i
Select Admin Groups

You can select groups present in the CDP user management system. The group(s) must also exist in the external LDAP Identity Provider. Nested groups are not supported. Only users that are direct members of the group are allowed access.

Tagging i
Enter key Enter value +

Only alphanumeric and `_``-``@``:``:` are allowed

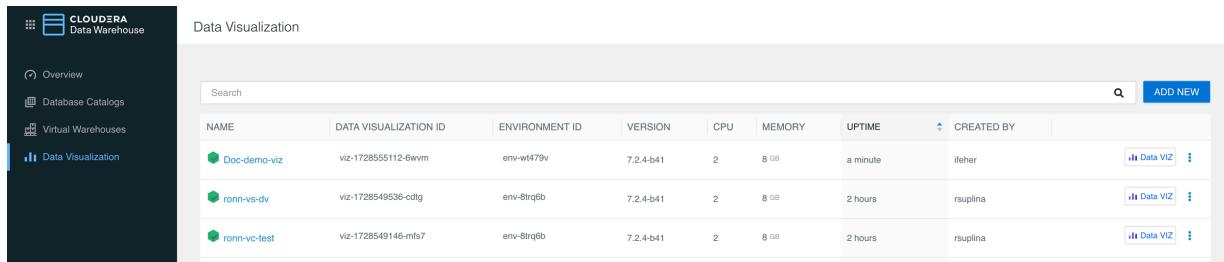
Resource Template
Default resources

Create

4. Click CREATE.

Instance creation starts. Wait until the Cloudera Data Visualization instance is in running state.

5. You can find the list of Cloudera Data Visualization instances and environments appears under the Data Visualization menu that you can open from the left navigation panel.

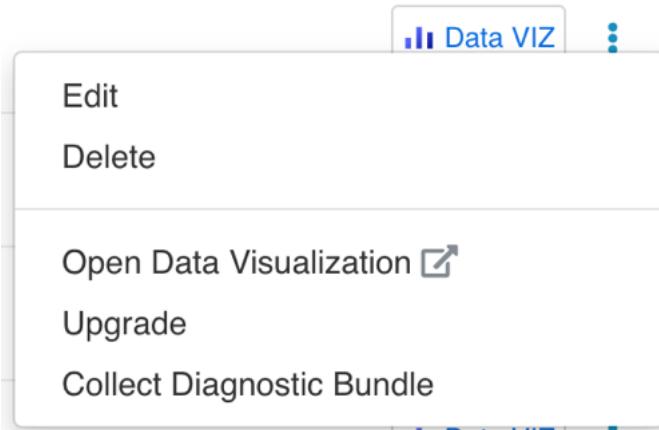


The screenshot shows the Cloudera Data Visualization interface. On the left is a dark sidebar with a 'Data Visualization' icon. The main area is titled 'Data Visualization' and contains a table with three rows of data. The columns are: NAME, DATA VISUALIZATION ID, ENVIRONMENT ID, VERSION, CPU, MEMORY, UPTIME, and CREATED BY. The rows are: 'Doc-demo-viz' (viz-1728555112-6vvvm, env-wt479v, 7.2.4-b41, 2, 8 GB, a minute, ifeher), 'ronn-vs-dv' (viz-1728549536-cdtg, env-8trqfb, 7.2.4-b41, 2, 8 GB, 2 hours, rsuplina), and 'ronn-vc-test' (viz-1728549146-mfs7, env-8trqfb, 7.2.4-b41, 2, 8 GB, 2 hours, rsuplina). Each row has a 'Data VIZ' button and a three-dot menu icon.

6.

Select one from the list of running Cloudera Data Visualization instances and click  to start Cloudera Data Visualization.

Alternatively, you can click the launch/options menu (three dots) at the end of the row and click Open Data Visualization in the pop-up menu.



SSO authentication is enabled by default both in Cloudera on cloud and Cloudera on premises. If you are logged in to the Control Plane, you will be logged into Cloudera Data Visualization automatically. If not, log into the Control Plane using your LDAP credentials. Cloudera Data Visualization opens in a new browser tab and you land on the Cloudera Data Visualization homepage, where you can explore sample dashboards and access the in-tool *Get Started* guide for help.

New users logging in to Cloudera Data Visualization are automatically added to the `viz_guest_group` group. You can assign the System Admin role to this group to grant new users the permission to create new connections. For more information, see *Assigning roles to users*.

Related Information

[Security model](#)

[Assigning roles to users](#)

Editing and deleting Cloudera Data Visualization instances in Cloudera Data Warehouse

Learn how to edit and delete Cloudera Data Visualization instances in Cloudera Data Warehouse data service.

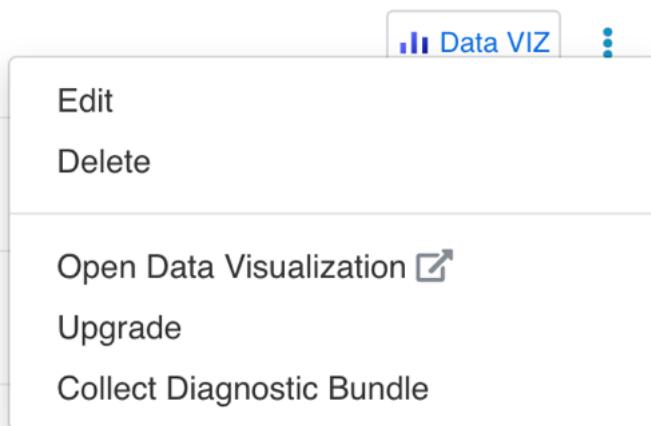
Before you begin

- You are logged into Cloudera Data Warehouse

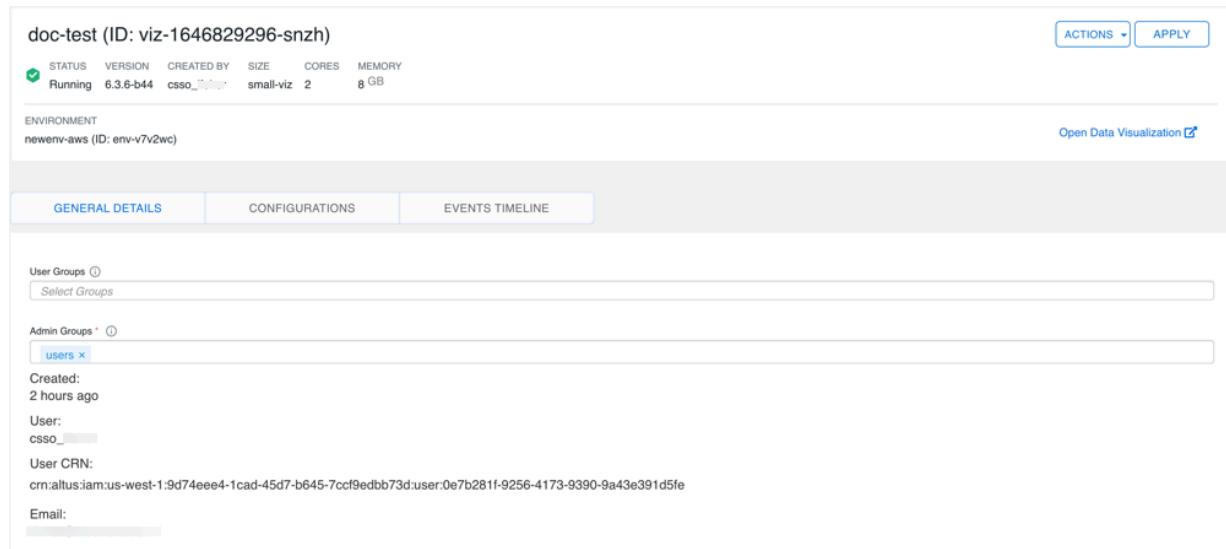
- You have DWAdmin role in Cloudera Data Warehouse

Procedure

1. In Cloudera Data Warehouse, click Data Visualization in the left navigation panel.
A list of available Cloudera Data Visualization instances appears.
2. In one of the Cloudera Data Visualization instance rows, click the launch/options menu (three dots).
3. To change instance details, click Edit.



The instance overview page opens and you can make changes to general details and other properties.



doc-test (ID: viz-1646829296-snzh)

| STATUS | VERSION | CREATED BY | SIZE | CORES | MEMORY |
|---------|-----------|------------|-----------|-------|--------|
| Running | 6.3.6-b44 | csso | small-viz | 2 | 8 GB |

ENVIRONMENT
newenv-aws (ID: env-v7v2wc) [Open Data Visualization](#)

[GENERAL DETAILS](#) [CONFIGURATIONS](#) [EVENTS TIMELINE](#)

User Groups ⓘ [Select Groups](#)

Admin Groups ⓘ [users](#)

Created: 2 hours ago

User: csso

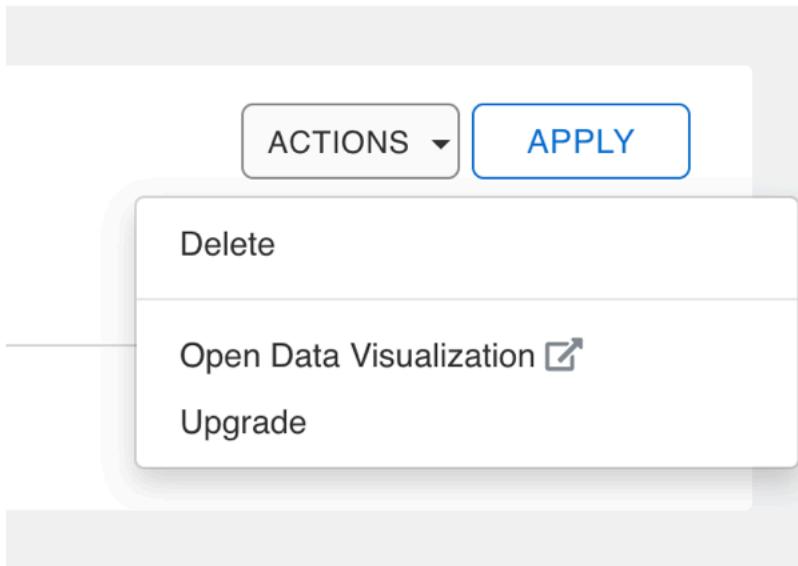
User CRN: crn:altus:iam:us-west-1:9d74eee4-1cad-45d7-b645-7ccf9edbb73d:user:0e7b281f-9256-4173-9390-9a43e391d5fe

Email: [redacted]

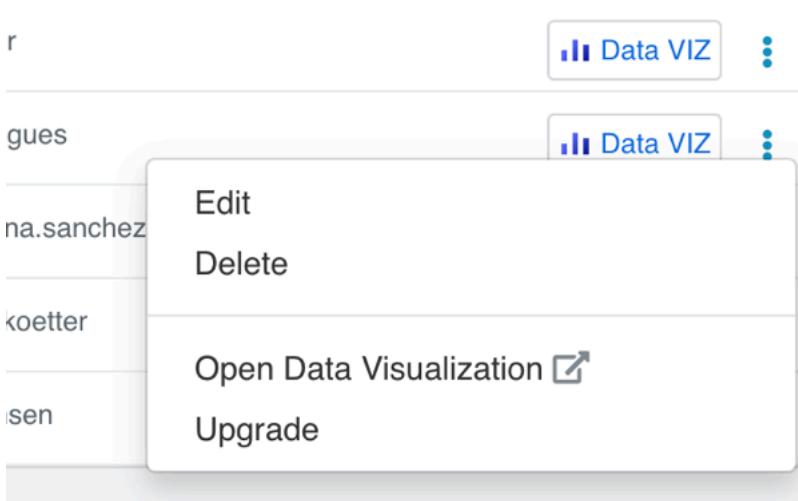
ACTIONS [APPLY](#)

Click **APPLY** to save the changes.

4. To delete a Cloudera Data Visualization instance, click **ACTIONS Delete**.



Alternatively, you can click the launch/options menu (three dots) at the end of a Cloudera Data Visualization instance row and select Delete.



Upgrading Cloudera Data Visualization in Cloudera Data Warehouse

Learn how to upgrade your Cloudera Data Visualization instance if a later version is available in Cloudera Data Warehouse.

About this task

Cloudera Data Visualization upgrades in Cloudera Data Warehouse are centrally managed and can be initiated through the Management Console. This ensures a streamlined and controlled process for keeping your Cloudera Data Visualization deployments up to date.

You can start the upgrade manually when a new version becomes available. Once you start the upgrade, it gets completed automatically, and roll back to a previous Cloudera Data Visualization version is not supported. If you encounter issues after an upgrade, you must revert to a backed-up version of the database. Ensure you have created a

reliable backup before initiating the upgrade to safeguard against potential issues. For more information, see *Backing up and restoring Cloudera Data Visualization applications in Cloudera Data Warehouse*.

Before you begin

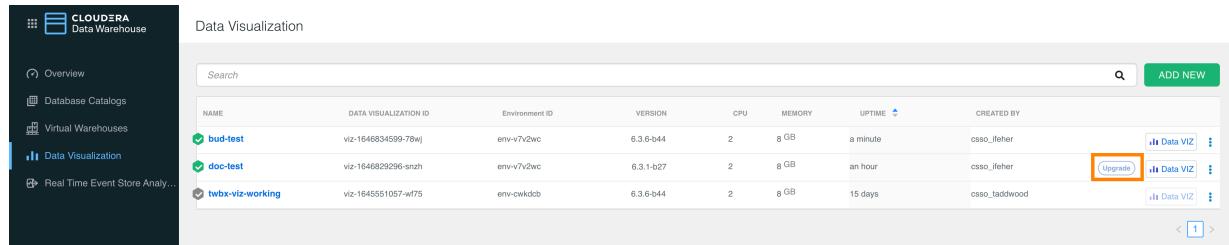
Ensure that:

- You are logged into Cloudera
- You can access the environment of the Cloudera Data Visualization to upgrade
- You have DWAdmin role

Procedure

1. In Cloudera Data Warehouse, click Data Visualization in the left navigation panel.

A list of Cloudera Data Visualization instances appears. In Cloudera on cloud, if a newer version of Cloudera Data Visualization is available for any listed instance, the Upgrade option is shown in the relevant row.



| NAME | DATA VISUALIZATION ID | ENVIRONMENT ID | VERSION | CPU | MEMORY | UPTIME | CREATED BY | Actions |
|------------------|-----------------------|----------------|-----------|-----|--------|----------|---------------|--|
| bud-test | viz-1646834599-78wj | env-v7v2wc | 6.3.6-b44 | 2 | 8 GB | a minute | csso_itfher | View Upgrade More |
| doc-test | viz-1646829296-snzh | env-v7v2wc | 6.3.1-b27 | 2 | 8 GB | an hour | csso_itfher | View Upgrade More |
| twbx-viz-working | viz-164551057-wf75 | env-cwkdcb | 6.3.6-b44 | 2 | 8 GB | 15 days | csso_taddwood | View Upgrade More |

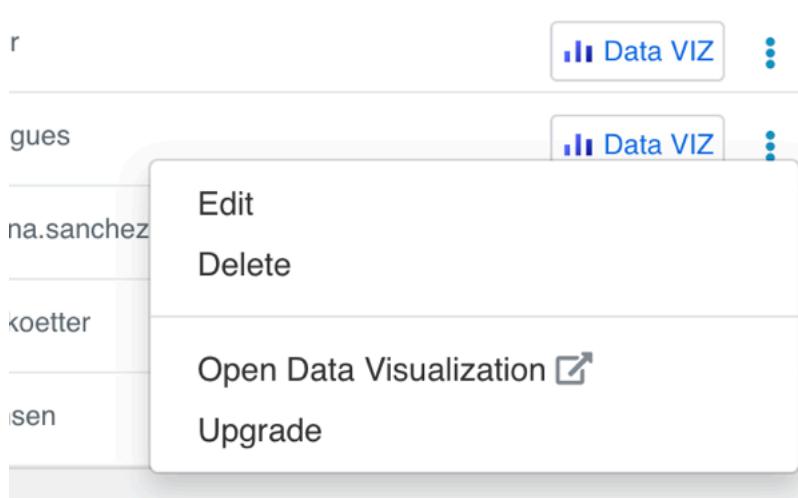
2.

Find the instance from the list and click **Upgrade** to start the upgrade.

Alternatively, you can click the Options menu (three dots) in the row of the Cloudera Data Visualization instance that you want to upgrade and click Upgrade in the pop-up menu.



Note: In Cloudera on premises, the **Upgrade** button is not available, so use the Options menu to start the upgrade process.



- Edit
- Delete
- Open Data Visualization
- Upgrade

Related Information

[Backing up and restoring Cloudera Data Visualization applications in Cloudera Data Warehouse](#)

Backing up and restoring Cloudera Data Visualization applications in Cloudera Data Warehouse

You can ensure the safety of your Cloudera Data Visualization applications in Cloudera Data Warehouse by implementing a proactive backup strategy. The Cloudera Data Warehouse backup/restore feature saves your environment parameters, enabling the recreation of your environment with the same settings, URL, and connection strings used previously.

For more information on the backup/restore feature, see [Backing up and restoring Cloudera Data Warehouse](#).

Backup procedure

A backup is a preventive measure to create a copy of your data to ensure that if data loss or system failure occurs, you can recover it by using the backup copy. This way you can mitigate risks associated with upgrades and return to a known state if unintended consequences arise.

To save the charts and dashboards you have created, it is important to perform data backup. You can use Kubernetes command-line tools, such as k9s or kubectl, to create backups for your Cloudera Data Visualization applications in an AWS environment in Cloudera Data Warehouse.

For detailed instructions, see [Backing up Cloudera Data Visualization applications](#).

Restore procedure

You can use the restore procedure when you encounter issues that cannot be resolved, and you need to revert the system to a stable, known-good state. You can only restore the system, if you have a previously created a backup of the Cloudera Data Visualization instance.

In Cloudera Data Warehouse, you can use the environment-level automated process to restore the environment, the deployed Database Catalog, Virtual Warehouse, and Cloudera Data Visualization entities. If a Cloudera Data Visualization deployment is not present on the cluster, but the backup file contains it, Cloudera Data Visualization will be restored to the cluster. If such an entity is already deployed, no data restoration or configuration updates will take place.

For an overview of the restore feature, see [Cloudera Data Visualization automatic restoration](#).

For detailed instructions, see [Restoring Cloudera Data Visualization](#).