

Cloudera Data Visualization deployment options

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Understanding Cloudera Data Visualization deployment options

Cloudera Data Visualization is integrated with the Cloudera platform, providing seamless access to data and enabling users to explore and visualize data across its entire lifecycle.


You can deploy Cloudera Data Visualization in several ways within the Cloudera ecosystem. Each deployment type offers a distinct different user experience, feature set, and configuration model. This guide compares the available options to help you select the most suitable one for your use case and ensure optimal performance.

The comparison covers the following Cloudera Data Visualization deployment options:

- Integrated with Cloudera Data Warehouse
- Embedded in Cloudera AI's Data tab (Data Discovery and Visualization)
- Standalone application in Cloudera AI
- Deployed in Cloudera Base on premises

Table 1: Key features of Cloudera Data Visualization deployment options

| Deployments / Features | Cloudera Data Visualization in Cloudera Data Warehouse | Data Discovery and Visualization (Data tab in Cloudera AI) | Cloudera Base |
|-----------------------------------|--|---|--|
| Integration method | Integrated with Cloudera Data Warehouse data service, providing direct access to virtual warehouses | A streamlined version embedded in the Data tab of Cloudera AI | A standalone application |
| Primary use case | Visualization optimized for large data warehouse workload, supporting high-performance SQL analytics and business intelligence use cases | Fast, in-context data exploration in Cloudera AI projects, enabling quick analysis, iterative discovery, and basic data quality checks | Full-featured data exploration and visualization |
| Access permissions | Managed through Cloudera Data Warehouse user groups, mapped to Cloudera Data Visualization roles | Inherited from Cloudera AI project roles | Inherited from Cloudera Base roles |
| Site settings | Site Settings available No Advanced Settings | Site Settings available as Explore Data Settings Advanced Settings also available | Full Site Settings |
| Data connection management | Pre-populated Hive/Impala settings | Auto-sync with Cloudera AI project data connections | Auto-sync with Cloudera Base connections |
| SQLite / DuckDB support | Not supported | Supported | Supported |
| API access | Not supported | Supported Requires Enable Unauthenticated Access | Supported Requires authentication |
| Embedding | Not supported | Supported Requires <ul style="list-style-type: none"> • IS_EMBED=true added to the environment variables • Enable Unauthenticated Access option enabled • CDSW_FRAME_ANCESTORS environment variable set | Supported Requires authentication |
| Dashboard emailing | Supported Specific email capabilities depend on Cloudera Data Warehouse configuration | Not supported in embedded mode Workaround is to use a standalone app | Supported |

| Deployments / Features | Cloudera Data Visualization in Cloudera Data Warehouse | Data Discovery and Visualization (Data tab in Cloudera AI) | Cloudera Data Visualization in Cloudera Base |
|------------------------------|--|--|--|
| Scheduled jobs | Supported | Not supported  Note: This embedded mode is for interactive exploration and does not support scheduled tasks. Use the standalone app for scheduling. | Supported |

Related Information

- [Deploying Cloudera Data Visualization in Cloudera Data Warehouse](#)
- [Deploying a standalone Cloudera Data Visualization application in Cloudera AI](#)
- [Using Data Discovery and Visualization in Cloudera AI](#)
- [Installing Cloudera Data Visualization in Cloudera Base on premises](#)