

Accessing Data

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Accessing Hue from Cloudera Operational Database

Hue is a web-based interactive SQL editor that enables you to interact with data stored in Cloudera Operational Database. You can access the Hue user interface from the Cloudera Operational Database web user interface to create and browse HBase tables.

Procedure

- 1. Click Databases, and then select a database from the list.
- 2. Click Hue.

/ doc-test

Available


doc-test

crn:cdp:opdb:us-west-1:9d74eee4-1cad-45d7-b645-7ccf9edbb73d:opDb:bef03f68-a5a1-4964-bc6a-34e9fccc674c

ARCHITECTURE	VERSION	RUNTIME VERSION	JAVA VERSION	CREATED BY
X86_64	1.50.0	7.2.18.p800	8	

ENVIRONMENT	REGION	DATA LAKE	CLOUD STORAGE LOCATION
alim-mow-dev-cdw-aws	us-west-2	alim-mow-dev-cdw-aws-dl	s3a://alim-mow-dev-cdw-aws/alim-mow-dev-cdw

SQL EDITOR

 HUE

GRAFANA DASHBOARD

N/A

Example

You can use Hue to quickly browse large tables, create new tables, add data, modify existing cells, and also filter data using the auto-complete search.

Home - HBase / aaa

Switch Cluster

row_key, row_prefix + scan_len [col1, family:col2, fam3:, col...

Filter Columns/Families

All

Sort By ASC

1

Filter Column Names/Family

Sort By ASC

Drop Columns

cf1: val	cf1: purchase
Krishna	12

100

cf1: name	cf1: purchase
Eva	1000

3

cf1: name	
Anna	

Fetches 10 entries starting from null in 13.397 seconds.

Drop Rows

Bulk Upload

New Row

default

Tables (8)

Filter...

customers

hbase_table_1

hbase_table_2

key (int)

value (string)

hbase_table_3

sample_07

sample_08

transactions1g

web_logs

```
1 INVALIDATE METADATA;
2 SELECT * FROM my_hbase_table WHERE rowkey='abcd';
3
```

Query 47a70eda3960db:bdbef23600000000: 0% Complete (0 out of 1)

47a70eda3960db:bdbef23600000000

Query History

Saved Queries

Results (1)

rowkey	value
1 abcd	my value 1

Related Information

- [Hue Overview](#)
- [Using Hue](#)
- [Use the Hue HBase app](#)

Accessing HBase REST API from Cloudera Operational Database

You can use the Apache HBase REST server to interact with Cloudera Operational Database. Interactions happen using URLs and the REST API. REST uses HTTP to perform various actions, and this makes it easy to interface with Cloudera Operational Database using a wide range of programming languages.

Procedure

1. Click Databases, and then select a database from the list.
2. Click **Connect HBase REST**.
3. From the HBase REST Server URL field, copy the URL to the HBase REST Server to connect to the selected database.

The screenshot shows the 'Connect' tab in the Cloudera Operational Database interface. Under the 'Connect' tab, there are several options: 'HBase', 'HBase REST', 'HBase Client Tarball', 'Phoenix (Thick)', 'Phoenix (Thin)', 'Phoenix (ODBC)', and 'Phoenix Python'. The 'HBase REST' option is selected. Below the tabs, there is a section titled 'Usage' with the text: 'You can use the Apache HBase Maven URL, Apache HBase Client Version, and the Apache HBase Client Configuration URL to dower Configuration.' (Note: 'dower' is likely a typo for 'download'). Below this, there are three input fields: 'HBase Maven URL', 'HBase Client Version', and 'HBase Client Configuration URL'. Below these fields, there is a section titled 'Kerberos Configuration' with a dropdown arrow. Under this section, there are three input fields: 'Kerberos Realm', 'KDC Host', and 'Krb5.conf'.

What to do next

Use the HBase REST API to interact with the HBase services, tables, and regions using HTTP endpoints. You can create tables, delete tables, and perform other operations that have the REST endpoints. For more information, see *Using the HBase REST API* using the link in the related information section.

Related Information

[Use the HBase REST server](#)

[Using the REST API](#)

Accessing SQLLine from Cloudera Operational Database

SQLLine is a command-line utility included with Cloudera Operational Database that enables you to connect and execute SQL commands using Phoenix from an edge node.

Procedure

1. Download the client JAR files for your thick or thin clients using this URL syntax.

You can get the [****PHOENIX MAVEN URL****], [****PHOENIX_(THIN)_CLIENT_VERSION****], and the [****PHOENIX_(THICK)_CLIENT_VERSION****] information from the Database connectivity page. The URL is in the following format:

URL for the Phoenix thick client in Cloudera Runtime 7.2.9 (environment) and higher:

```
[***PHOENIX MAVEN URL***]/org/apache/phoenix/phoenix-client-hbase-2.2/  
[***PHOENIX THICK CLIENT VERSION***]/phoenix-client-hbase-2.2-[***PHOENIX  
THICK CLIENT VERSION***].jar
```

URL for the Phoenix thick client in Cloudera Runtime 7.2.8 (environment) and lower:

```
[***PHOENIX MAVEN URL***]/org/apache/phoenix/phoenix-client/  
[***Phoenix THICK CLIENT VERSION***]/phoenix-client-[***PHOENIX THICK  
CLIENT VERSION***].jar
```

For the Phoenix thin client:

```
[***PHOENIX MAVEN URL***]/org/apache/phoenix/phoenix-queryserver-client/
```

```
[***PHOENIX THIN CLIENT VERSION***]/phoenix-queryserver-client-[***PHOENIX THIN CLIENT VERSION***].jar
```


[Connect](#) [Charts](#) [Events](#) [Diagnostic Bundles](#) [Snapshots](#)


[HBase](#) [HBase REST](#) [HBase Client Tarball](#) [Phoenix \(Thick\)](#) [Phoenix \(Thin\)](#) [Phoenix \(ODBC\)](#) [Phoenix Python](#)

Usage

The Apache Phoenix Thick driver communicates directly with Apache ZooKeeper and Apache HBase. You can connect your application and configuration URLs.

Phoenix (Thick) Client Jar
[Download Phoenix Client Jar](#)

Phoenix Maven URL 

Phoenix (Thick) Client Version 

Phoenix (Thick) JDBC URL

[> Kerberos Configuration](#)

You can use Maven to download the Phoenix client JAR files. If you only need the JAR files for SQLLine connection, you can use the curl tool to download the JAR files using the following command:

```
curl -L -f -o "phoenix-client.jar" "[***PHOENIX CLIENT JAR FILE URL***]"
```


- From the Databases page, download HBase client configuration Zip file using the client configuration URL .



Note: You cannot download the client configuration file using a web browser. You must copy and paste the HBase client configuration URL to your CLI to download this file. For example, `curl -f -o "hbase-config.zip" -u "cso_***USERNAME***" "https://[***DOWNLOAD URL***]"`.


[Connect](#)
[Charts](#)
[Events](#)
[Diagnostic Bundles](#)
[Snapshots](#)

[HBase](#)
[HBase REST](#)
[HBase Client Tarball](#)
[Phoenix \(Thick\)](#)
[Phoenix \(Thin\)](#)
[Phoenix \(ODBC\)](#)
[Phoenix Python](#)

Usage

You can download the Apache HBase Client Tarball that contains the JAR files used to connect to your database. The HBase Client you need to connect your database when using interactive tools such as HBase Shell or SQLLine.

HBase Version

Download URL 

HBase Client Configuration URL

[> Kerberos Configuration](#)
[> Yarn Configuration](#)
[> JWT Configuration](#)

- From the Databases page, copy the JDBC connection URL for the Phoenix (Thick) or Phoenix (Thin) client to use in the next step.
- Run this command from your CLI:

```
java $PHOENIX_OPTS -cp "[***HBASE-CONFIGURATION***]:[***PHOENIX-CLIENT-JAR**]"
sqlline.SqlLine -d org.apache.phoenix.jdbc.PhoenixDriver -u
[***JDBC-CONNECTION-URL***] -n none -p none --color=true --fastConnect=
false
--verbose=true --incremental=false --isolation=TRANSACTION_READ_COMMITTED
```

Related Information

[SQLLine Command Reference](#)