

Cloudera Runtime 1.0.0

## Administering Hue

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# CLOUDERA

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## Hue configurations in Cloudera Data Warehouse

You can customize the settings for Hue at a Virtual Warehouse level by specifying the configurations in the hue-safety-valve field in the Cloudera Data Warehouse (CDW) UI.

The following table lists the safety valve parameters supported by Hue in Cloudera Data Warehouse:

Parameter	Description
<pre>[notebook]   [[interpreters]]     [[hive]]       name=Hive       interface=hiveserver2     [[hplsql]]       name=Hplsql       interface=hiveserver2</pre>	<p>Used to activate and enable switching between Hive and HPL/SQL interpreters for your queries.</p>  <p><b>Note:</b> Hue enables you to switch between Hive and HPL/SQL interpreters. By default, the Hive interpreter is enabled when you create a Hive Virtual Warehouse. To enable the HPL/SQL interpreter, you must update the configuration in the hue-safety-valve field in your Hive Virtual Warehouse. However, updating hue-safety-valve overrides the default configuration. Therefore, to use both Hive and HPL/SQL interpreters, you must enable both by updating the configuration in the hue-safety-valve field.</p>
<pre>[[desktop]] app_blacklist</pre>	<p>Used to add or remove applications, such as the File Browser, Impala, Hive, Oozie, and so on from the blocked list of applications.</p>
<pre>[desktop]   [[session]]     ttl=[**NUMBER-OF-SECONDS**]</pre>	<p>Used to configure the duration of a user session. The ttl property determines the length of time that the cookie with the user's session ID lives before expiring. After the ttl setting is reached, the user's session expires whether it is active or not.</p> <p>The default setting for ttl is 1,209,600 seconds, which equals two weeks.</p>
<pre>[jobbrowser] [[query_store]] server_url=[**QUERY-PROCESSOR-URL**]</pre>	<p>Used to display the <b>Queries</b> tab for Hive and Impala on the <b>Job Browser</b> page. This configuration is enabled by default and is not exposed in the Hue safety valve.</p> <p>However, to hide the <b>Queries</b> tab, you can override the configuration by adding the following lines in Virtual Warehouse  <b>Edit CONFIGURATIONS</b> Hue hue-safety-valve :</p> <pre>[jobbrowser] [[query_store]] is_enabled=false</pre> <p>To enable the <b>Queries</b> tab, set is_enabled to true.</p>

## Hue supported browsers

Hue works with the two most recent [LTS](#) (long term support) or [ESR](#) (extended support release) browsers. Cookies and JavaScript must be enabled.

The lists the minimum tested versions of the most common browsers:

- Chrome: ([Version history](#))
- Firefox: ([Version history](#))
- Safari (Mac only): [Version history](#)
- Microsoft Edge: ([Version history](#))

Hue can display in other browsers and in older versions of the common browsers, but you might not have access to all features.

## Enabling cache-control HTTP headers when using Hue

You can enable Hue to use HTTP headers such as Cache-Control, Pragma, and Expires to ensure that your browser always uses the fresh version of the resource. You must set the value of the `custom_cache_control` property to true in Hue's Advanced Configuration Snippet.

### About this task



**Note:** Enabling the use of these cache-control HTTP headers can affect performance because your browser tries to fetch the latest resources instead of using cached data. To disable cache-control HTTP headers, set the value of the `custom_cache_control` property to false.

### Procedure

1. Go to **Clusters Hue Configuration** and add the following line in the Hue Service Advanced Configuration Snippet (Safety Valve) for `hue_safety_valve.ini` field:

```
[desktop]
custom_cache_control=true
```

2. Click **Save Changes**.
3. Restart the Hue service.

## Customizing the Hue web interface

You can customize the page logo and set the cache timeout value by configuring the parameters in the Virtual Warehouse which is running Hue.

### Adding a custom banner in Hue

You can add a custom banner to the Hue web interface by adding your custom HTML to the `hue-safety-valve` configuration for your Virtual Warehouse.

### Procedure

1. Log in to the Data Warehouse service as DWAdmin.
2. Go to your Virtual Warehouse tile and click **Edit**.
3. Go to **CONFIGURATIONS Hue**, select `hue-safety-valve` from the Configuration files drop-down menu and add the following lines:

```
[desktop]
[[custom]]
banner_top_html=<H1>Your company's custom Hue Web UI banner</H1>
```

4. Click **Apply Changes**.  
The Virtual Warehouse goes into an "Updating" state. Wait for the update to complete, and then open or refresh Hue.

## Changing the page logo in Hue

You can replace the Hue web interface logo with a custom log that is created with an SVG code. Add any type of logo you want, but your custom logo should be designed to fit into a 160 x 40 pixel space.

### About this task

For example, here is the Hue logo shown in the following image:



You can change this Hue logo by adding the appropriate SVG code to the `logo_svg` property under the `[desktop] [[custom]]` section in the `hue_safety_valve` configuration parameter in Cloudera Data Warehouse (CDW).

### Procedure

1. Log in to the Data Warehouse service as an administrator.
2. Go to the Virtual Warehouses Edit CONFIGURATIONS Hue and select hue-safety-valve from the Configuration files drop-down list.
3. Add the custom logo SVG code in the `[desktop] [[custom]]` section as shown in the following example:

```
[desktop]
[[custom]]
logo_svg=' [ ***SVG-CODE-FOR-CUSTOM-LOGO*** ] '
```

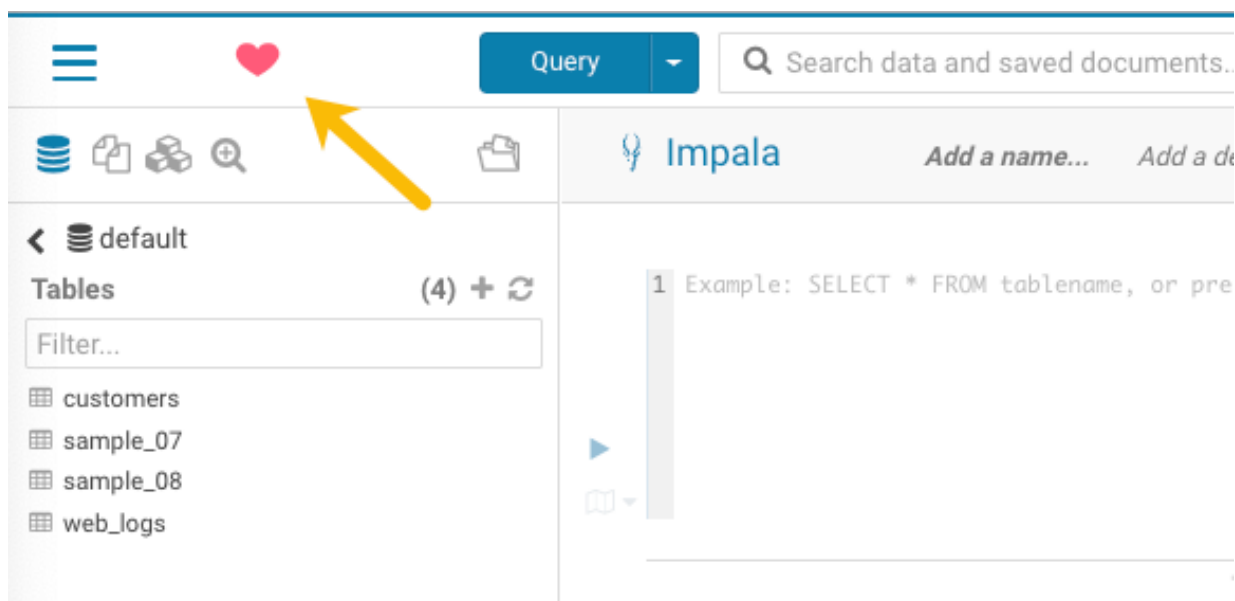
For example, the following SVG code replaces the Hue logo with a red heart:

```
[desktop]
[[custom]]
logo_svg='<g><path stroke="null" id="svg_1" d="m44.41215,11.43463c-4.05017,-10.71473
-17.19753,-5.90773 -18.41353,-0.5567c-1.672,-5.70253 -14.497,-9.95663
-18.411,0.5643c-4.35797,11.71793 16.891,22.23443 18.41163,23.95773c1.518
1,-1.36927 22.7696,-12.43803
18.4129,-23.96533z" fill="#ffffff"/> <path stroke="null" id="svg_2"
d="m98.41246,10.43463c-4.05016,-10.71473 -17.19753,-5.90773 -18.41353,-
0.5567c-1.672,-5.70253
```

```
-14.497,-9.95663 -18.411,0.5643c-4.35796,11.71793 16.891,22.23443 18.4116
4,23.95773c1.5181,-1.36927
22.76959,-12.43803 18.41289,-23.96533z" fill="#FF5A79"/> <path stroke="nu
ll" id="svg_3"
d="m154.41215,11.43463c-4.05016,-10.71473 -17.19753,-5.90773 -18.41353,-0
.5567c-1.672,-5.70253
-14.497,-9.95663 -18.411,0.5643c-4.35796,11.71793 16.891,22.23443 18.41164
,23.95773c1.5181,-1.36927 22.76959,-12.43803 18.41289,-23.96533z" fill="
#ffffff"/> </g>'
```

4. Click APPLY.
5. Restart the Virtual Warehouse.
6. Verify your changes by opening Hue.

If you added the sample SVG code that defines a red heart as the logo, then your Hue web interface looks as shown in the following image:




#### Related Information

[Scalable Vector Graphics](#)

## Adding a splash screen in Hue

You can add a custom splash screen to the Hue web interface by adding your custom HTML to the hue-safety-valve configuration for your Virtual Warehouse.

#### Procedure

1. Log in to the Data Warehouse service as DWAdmin.
2. Go to your Virtual Warehouse tile and click  Edit .
3. Go to CONFIGURATIONS Hue , select hue-safety-valve from the Configuration files drop-down menu and add the following lines:

```
[desktop]
[[custom]]
```

```
login_splash_html=[***CUSTOM-HTML***]
```

```
[desktop]
[[custom]]
login_splash_html=<h1>Hue, the next-gen SQL Assistant</h1>
```

4. Click Apply Changes.

The Virtual Warehouse goes into an "Updating" state. Wait for the update to complete, and then open or refresh Hue.


## Setting the cache timeout

Enable Hue UI caching by setting a timeout value in milliseconds. The default is 10 days or 86400000 milliseconds. Set the timeout to 0 to disable caching.

### About this task

When you browse tables using the left assist panel or run queries, Hue caches this information for fetching information faster and query autocompletion. You can configure the time for which you want to Hue to cache this information by setting the value of the `cacheable_ttl` property under the `[desktop][[custom]]` section in the `hue_safety_valve` configuration property in Cloudera Data Warehouse.

### Procedure

- 1.
2. Log in to the Data Warehouse service as an administrator.
3. Go to the Virtual Warehouses  Edit CONFIGURATIONS Hue and select `hue-safety-valve` from the Configuration files dropdown menu.
4. Add the following parameters with the cache timeout value to the `hue_safety_valve` configuration parameter:

```
[desktop]
[[custom]]
cacheable_ttl=[***VALUE-IN-MILLISECONDS***]
```

For example, the following configuration sets the cache timeout to the default value of 86400000 milliseconds:

```
[desktop]
[[custom]]
cacheable_ttl=86400000
```

5. Click APPLY.
6. Restart the Virtual Warehouse.

## Enabling or disabling anonymous usage data collection

Hue tracks anonymized pages and application versions to gather information about application usage levels. The data collected does not include hostnames or IDs. For example, the data collected has the format `/2.3.0/pig` or `/2.5.0/beeswax/execute`.

### About this task

To enable or disable anonymous usage data collection:



### Procedure

1. In the Cloudera Manager Admin Console, select `ClustersHueConfiguration` to navigate to the configuration page for Hue.
2. In the Search text box, type `usage` to locate the `Enable Usage Data Collection` check box:
  - To enable anonymous data collection, check the box, which is the default setting.
  - To disable anonymous data collection, clear the check box.
3. Enter a Reason for change..., and then click `Save Changes` at the bottom of the page to save the configuration change.
- 4.



Refresh the browser page and click the restart icon at the top of the page so the new configuration changes can be read by the server and the new data collection setting takes effect.

## Disabling the share option in Hue

Hue allows you to share documents, queries, and workflows with other users, either for viewing only or viewing and modifying in any Hue instances across all Virtual Warehouses within a Database Catalog. Sharing is enabled by default in the Hue UI. For added privacy and control, you can disable sharing by setting the `enable_sharing` property to `false` in the `hue-safety-valve`.

### About this task

The sharing option is always available to the admin users. To disable the share option:

### Procedure

1. Log in to the Data Warehouse service as an administrator.
2. Go to the `Virtual Warehouses Edit CONFIGURATIONS Hue` and select `hue-safety-valve` from the Configuration files drop-down list.
3. Add the following lines in the `hue-safety-valve`:

```
[desktop]
enable_sharing=false
```

4. Click `APPLY`.
5. Restart the Virtual Warehouse.


## Adding Query Processor Administrator users and groups in Cloudera Data Warehouse

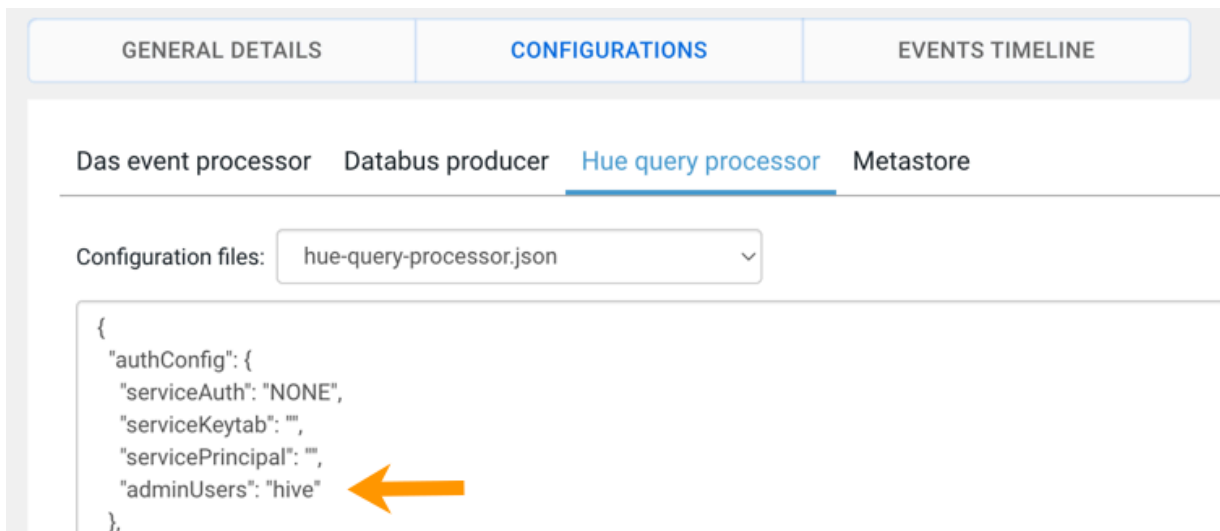
The Query Processor Administrators have special privileges that enable them to view and monitor queries from all users, including the ones that were submitted from query interfaces, such as Beeline, Hive Warehouse Connector (HWC), Tableau, Impala-shell, Impyla, and other JDBC/ODBC clients.

### Before you begin

Make sure that the Virtual Warehouse to which you want to add the Hue Query Processor Administrators users is in the stopped state.

### Procedure

1. Log in to the Cloudera Data Warehouse (CDW) web interface as a DWAdmin.
2. Click  Edit on the Database Catalog for which you want to add Hue Query Processor Administrators users.
3. On the **Database Catalog** details page, click CONFIGURATIONS Hue query processor and select hue-query-processor.json from the Configuration files drop-down menu, as shown in the following image:



4. In the “authConfig” section, add the list of users to the “adminUsers” key.

For example: "adminUsers": "hive, [\*\*\*USER-1\*\*\*], [\*\*\*USER-2\*\*\*]"

You can also add a list of admin groups as follows:

```
"adminGroups": "admin-group, [***GROUP-1***], [***GROUP-2***]"
```

5. Click Apply.


The Hue service will be unavailable for approximately 5 minutes to make the update.

## Ways to clean up old queries from the Query Processor tables

Learn how to schedule a query clean-up and how to use the API to manually clean up queries from the following Query Processor tables: vertex\_info, dag\_details, dag\_info, query\_details, hive\_query, tez\_app\_info.

### Scheduling query clean-up

Both Hive and Impala queries are retained in the backend database for 30 days by default, after which they are cleaned up. You can change the clean-up interval from the Database Catalog configurations. Go to Database

Catalogs  Edit CONFIGURATIONS Hive query processor and select the hue-query-processor.json from the Configuration files drop-down menu.

Add the following line under the dasConf section and specify the time interval in seconds:

```
"dasConf": {
  "hue.query-processor.event-pipeline.cleanup-interval-secs": "[***TIME-INTERVAL-IN-SECONDS***]",
  "hue.query-processor.event-pipeline.cleanup.cron.expression": "[***CRON-EXPRESSION***]"
}
```

```
},
```

For example:

```
"hue.query-processor.event-pipeline.cleanup.cron.expression" : "0 0 2 * * ?"  
,  
"hue.query-processor.event-pipeline.cleanup-interval-secs" : "2592000"
```

### Manually cleaning up queries using an API

The ability to clean up queries manually in addition to the scheduled clean-up routines is useful when you have a high load of queries in a particular week that are hogging resources that you must free up. The API also runs a `VACUUM` command on the Query Processor table to reclaim storage that is occupied by dead tuples.

You can send an API request using tools such as `cURL` or Postman.

API format: [\*\*\*QUERY-PROCESSOR-ADDRESS\*\*]/api/admin/cleanup/[\*\*\*EPOCH-TIME\*\*\*]

Where,

- [\*\*\*QUERY-PROCESSOR-ADDRESS\*\*] is the query processor host address
- [\*\*\*EPOCH-TIME\*\*\*] is the Unix epoch time in seconds

Queries that were run before the specified epoch time are purged.

For example:

```
curl "http://machine1.company.com:30700/api/admin/cleanup/1670006742"
```

## Downloading debug bundles

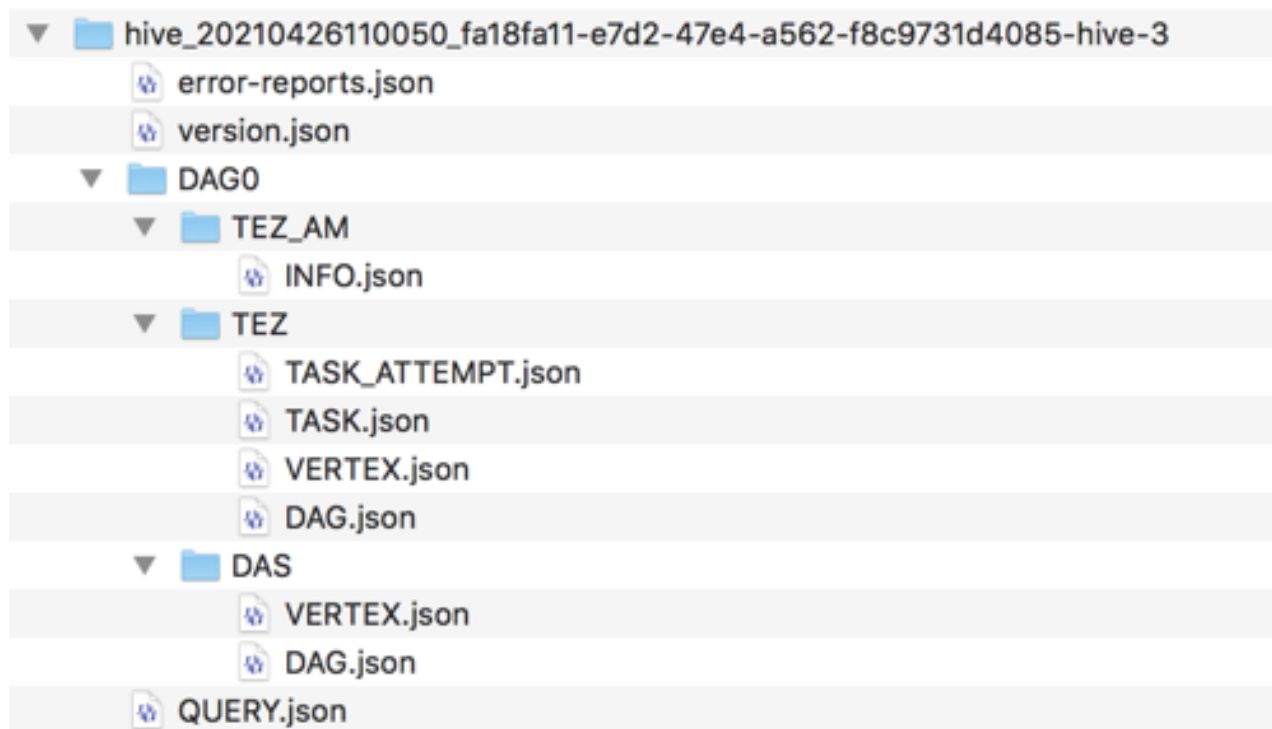
The debug bundle is a ZIP file that contains the query details in JSON format and an `error-reports.json` file, which is created only if an error occurs while the query is run.

### About this task



**Note:** This feature is available only for Hive queries.

If Tez is used to run a query, then the debug bundle also contains DAG and Tez JSON files, as shown in the following image:



### Procedure

1. Go to the Cloudera Data Warehouse (CDW) web interface and open Hue from your Virtual Warehouse.
2. Click Jobs from the left assist panel.  
The **Job Browser** page is displayed.
3. Click Queries.  
The Hive queries that were run are displayed.
4. Select a query for which you want to download the debug bundle.
5. Click Download and save the ZIP file on your computer.  
The filename is in the following format:

```
hive_[***HIVE-QUERY-ID***]_[***USER-ID***]_[***UNIQUE-INDEX***]
```

## Enabling Spark 3 engine in Hue

### Before you begin



**Note:** Livy v0.6 supports Python versions upto Python 3.7. If you install Python 3.8 or higher, then you may see the following error: `TypeError: required field "type_ignores" missing from Module.`

### Procedure

1. Log in to Cloudera Manager as an Administrator.
2. Go to **Clusters HDFS Configuration** and add the following lines in the **Cluster-wide Advanced Configuration Snippet (Safety Valve)** for `core-site.xml` field:

```
<property>
```

```

<name>hadoop.proxyuser.hue.groups</name>
<value>*</value>
<name>hadoop.proxyuser.hue.hosts</name>
<value>*</value>
<name>hadoop.proxyuser.spark.groups</name>
<value>*</value>
<name>hadoop.proxyuser.spark.hosts</name>
<value>*</value>
<name>hadoop.proxyuser.livy.groups</name>
<value>*</value>
<name>hadoop.proxyuser.livy.hosts</name>
<value>*</value>
</property>

```

3. Click Save Changes.
4. Go to Clusters Livy for Spark 3 service Configuration and add the following configurations:
  - a) Add the hue user in the Admin Users (livy.superusers) field.
  - b) Go to the HMS Service field and select Hive.
  - c) Click Save Changes.
5. Go to Clusters SPARK\_ON\_YARN Configuration Admin Users , add hue to the list of admin users (spark.history.ui.admin.acls) and click Save Changes.
6. Go to Clusters SPARK Configuration Admin Users , add hue to the list of admin users (spark.history.ui.admin.acls) and click Save Changes.
7. Go to Clusters SPARK 3 Configuration Admin Users , add hue to the list of admin users (spark.history.ui.admin.acls) and click Save Changes.
8. Go to Clusters Hue Configuration and enter the following lines in the Hue Service Advanced Configuration Snippet (Safety Valve) for hue\_safety\_valve.ini field and click Save Changes:

```

[desktop]
app_blacklist=zookeeper, pig #custom list of blocked apps
[spark]
#This is not a thrift server port
#If this TLS/SSL is enabled then check to see whether the livy url is on h
https or http and modify the url accordingly.
livy_server_url=http(s)://[**LIVY-FOR-SPARK3-SERVER-HOST**]:[**LIVY-
FOR-SPARK3-SERVER-PORT**]
ssl_cert_ca_verify=false
security_enabled=true
[notebook]
[[interpreters]]
[[sparksqll]]
name=Spark SQL
interface=livy

```



**Attention:**

- Ensure that the Spark application is not on the blocked list.
- Set ssl\_cert\_ca\_verify=false if an SSL certificate is not present in Hue's truststore. ssl\_cert\_ca\_verify=true if your environment is a secured environment.
- Set security\_enabled=true for Kerberized clusters.

9. Restart the affected services.

## Results

You can now select the “Spark SQL” dialect on the Hue editor and run Spark queries from Hue.



**Note:** Starting a Livy session can take 30-45 seconds. If you cancel a running Spark SQL query and rerun it, the Livy session expires, and a new session is created.

## Enabling browsing Ozone from Hue on CDW Private Cloud

Hue can read and write files on the Ozone filesystem, similar to S3 or ADLS. To access Ozone from Hue, you must add the necessary configurations in the hue-safety-valve within the Virtual Warehouse configurations.

### About this task

You must perform this task on all Hive or Impala Virtual Warehouses in which you want to enable the Ozone File Browser.

### Before you begin


- You must have an Ozone parcel containing the HttpFS service. For installation, see [Ozone 718.2.x installation documentation](#).
- Ensure that the Ozone HttpFS Gateway role is running in a healthy state.
- Go to [Cloudera Manager Ozone Configuration](#) and add the following entries in the HttpFS Gateway Advanced Configuration Snippet (Safety Valve) for ozone-conf/httpfs-site.xml field:

Field name	Value
Name	httpfs.proxyuser.[***PRINCIPAL-NAME***].hosts
Value	*
Name	httpfs.proxyuser.[***PRINCIPAL-NAME***].groups
Value	*

Replace the [\*\*\*PRINCIPAL-NAME\*\*\*] with the actual Kerberos principal name. For example, hive. You can obtain the Kerberos principal name from the Hive service configuration.

- Obtain the following values from the Ozone service. You need it to construct the fs\_defaultfs and webhdfs\_url URLs:
  - HttpFS Gateway host name
  - Ozone HttpFS Gateway TTP Web UI Port (ozone.httpfs.http-port)  
9778 is the default.
  - Ozone Service ID (ozone.service.id). The Ozone service ID must be specified when Ozone is configured in HA mode.

### Procedure

- Log in to the Data Warehouse service as DWAdmin.
- Go to [Virtual Warehouse](#)  [Edit CONFIGURATIONS Hue](#) and select hue-safety-valve from the Configuration files drop-down menu.
- Add the following lines:

```
[desktop]
[[ozone]]
[[[default]]]
fs_defaultfs=ofs://[***SERVICE-ID***] \ozone1 by default
webhdfs_url=http://[***OZONE-HTTPFS-HOST***]:[***OZONE-HTTPFS-PORT***]/webhdfs/v1 \https for secure cluster
ssl_cert_ca_verify=true
```

```
security_enabled=true
```

Specify https in the webhdfs\_url property if SSL is enabled on your cluster.

If Ozone is not configured in HA mode, then specify the URL for the Ozone manager in the fs\_defaultfs property.

#### 4. Click Apply Changes.

### Results

After configuring the Hue safety valve and restarting the Virtual Warehouse, you may see that Ozone file browser may take 10 - 15 minutes to display on the Hue web interface.

## Limitations in browsing Ozone from Hue

While Hue fully supports browsing the Ozone filesystem, there are some known limitations. Review these limitations and learn about the workarounds.

### File-size limit for uploads

The maximum supported file size that you can upload using the Hue File Browser to the Ozone filesystem is 2 GB. The default file size is 64MB. You can change the permissible upload limit by setting the value of the upload\_chunk\_size parameter as follows in the Hue Advanced Configuration Snippet (Hue safety valve):

```
[hadoop]
upload_chunk_size=2000000000
```

### File-size limitations for copy operations

There is a limit on the size of files you can copy from the source path to the destination using the Hue File Browser present on the Ozone filesystem. Hue automatically skips copying the files larger than the chunk size value (default is 64MB) and copies rest of the files recursively. You can change the upload chunk size by setting the value of the upload\_chunk\_size parameter in bytes as follows in the Hue Advanced Configuration Snippet (Hue safety valve):

```
[hadoop]
upload_chunk_size=[**SIZE-IN-BYTES**]
```

The following sample configuration sets the upload chunk size to 120 MB:

```
[hadoop]
upload_chunk_size=125829120 \\or 120*1024*1024
```

### User home directory

All users default to the ofs:// path when they access the Ozone filesystem from Hue.

### Volume and bucket limitations

You can only create default volume and buckets in Ozone using Hue. Operations other than create are not supported.

You cannot create Erasure Coding (EC)-enabled buckets from Hue, unless they are set by default in Ozone. However, you can create the EC-enabled buckets using the Ozone CLI and then browse it normally from Hue. If EC-enabled buckets are already present on Ozone, then you can browse them from Hue.

Hue can also display the content of the encrypted buckets present on Ozone.