DAS Release Notes

Date of Publish: 2019-07-12

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DAS 1.3.0 Release Notes

This document provides you with the latest information about the Data Analytics Studio 1.3.0 release and its product documentation.

What's New in this Release

New features and changes for DAS/DAS-Lite have been introduced in the 1.3.0 release, along with documentation updates.

- You can now authenticate the users by using the following methods:

  - Knox proxy
  - SPNEGO

  You can also choose not to set up user authentication. In this case, all the queries are executed as a hive service user.

  A new field, **user_authentication** has been introduced in the Ambari configuration where you can specify the method you want to use to authenticate your users.
- For added privacy, only the admin users can access the Read/Write report and the Join report. The non-admin users lack the privileges to view the **Reports** page or the Reports tab.
- DAS/DAS-Lite supports authorization with Ranger, if Ranger is configured for Hive. It uses the same access rules as configured for Hive. However, there is an exception for the admin users that are configured in DAS. The admin users that are configured in DAS will still be able to view all the databases, tables, and queries in DAS.
- The Tez DAG events are exposed in the dag_data table, and the Hive query events are exposed in the query_data table in the sys database. You can run Hive queries to process these events and generate custom reports. This feature is supported on the HDP 2.6.5 and HDP 3.1.0.31 releases.
- The DAG info swimlane shows detailed, task-level information for every vertex within the DAG flow. You can further view the task attempts for a particular task, and you can group the result set either by tasks, containers, or nodes. You can also download logs for a particular task attempt.
- DAS has a cleanup mechanism that, by default, purges all the queries and DAG information older than 30 days and purges old reports after 365 days from the DAS Postgres database to optimize its available capacity. You also can customize the cleanup frequency and time.
- DAS displays an alert if the Hive replication (repl dump) has not occurred for more than 15 minutes. The time when the replication last occurred is displayed in the **Last Updated** field on the **Compose** page and the **Database** page.
- Keyboard shortcut for executing a query: You can press **Ctrl** + **Enter** keys on a Windows system or **control** + **return** keys on an OSX system to start query execution from the query editor on the **Compose** page. This operation is a keyboard shortcut for the **EXECUTE** button.
- On the Join report, you can view all the joins with a particular column by moving the mouse pointer over a particular column name. This mouse action highlights all the connection lines originating from the selected column in a different color. You can also get a join count (number of times the two columns were joined during the selected time period) by moving the mouse pointer over the line connecting the two columns.
- The Join report also displays the database name to which a table belongs.

Unsupported Features

This section lists unsupported features as well as features in technical preview.

- Support for two-way wire encrypted clusters
- Multiple configuration groups in Hive and Tez

Technical Preview Features

There are no features in technical preview in the DAS 1.3.0 release.

Known Issues

Data Analytics Studio 1.3.0 has the following known issues, scheduled for resolution in a future release:

Known issues

- On clusters secured with Knox proxy only: You might not be able to save the changes to the JDBC URL in the DAS UI to change the server interface (HS2 or LLAP) on which you are running your queries.
- You may be unable to upload tables or get an error while browsing files to upload tables in DAS on a cluster secured using Knox proxy.
- DAS 1.3.0 does not parse semicolons (;) and double hyphens (--) in strings and comments.

  For example, if you have a semicolon in query such as the following, the query might fail: select * from properties where prop_value = "name1;name2";

  If a semicolon is present in a comment, then execute the query after removing the semicolon from the comment, or removing the comment altogether. For example:

  ```
  select * from test; -- select * from test;
  select * from test; /* comment; comment */
  ```

  Queries with double hyphens (--) might also fail. For example:

  ```
  select * from test where option = '--name';
  ```

- You might face UI issues on Google Chrome while using faceted search. We recommend you to use the latest version of Google Chrome (version 71.x or higher).
- You are unable to see databases or the query editor on the **Compose** page even after following the troubleshooting procedure. This can be caused due to incorrect hive service name in ZooKeeper.
- Visual Explain for the same query shows different graphs on the **Compose** page and the **Query Details** page.
- While running some queries, if you restart HSI, the query execution is stopped. However, DAS does not reflect this change and the queries appear to be in the same state forever.
- After a fresh installation, when there is no data and you try to access the Reports tab, it throws HTTP 404 Not Found Error.
- Join count does not get updated for tables with partitioned columns.