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## Org. apache. spark. sql. hive jar

Brief Description: This article is intended to describe and show the Apache Hive warehouse connection, which is a newer generation of read and write data between Apache Spark and Apache Hive. 1. Motivation for the integration of Apache Spark and Apache Hive has always been important in the case of use and further so. Both provide their own efficient data processing methods using SQL and are used for data stored in distributed file systems. Both provide interoperability. As both systems evolve, it is essential to find a solution that is best for data processing needs from both worlds. In the case of Apache Spark, it provides basic Hive compatibility. This allows access to tables Apache Hive and some major uses can be achieved in this way. However, not all modern Apache Hive features are supported, such as ACID Table Apache Hive, Ranger Integration, Live Long And Process (LLAP) and others from Spark 2. Apache Spark supports a connected approach to various data sources, and Apache Hive itself can also be considered a single data source. Therefore, this library, Hive Warehouse Connector, was installed as a data source to overcome the limitations and provide these modern Apache Hive features to Apache Spark users. Note: from HDP 3.0, directories Apache Hive and Apache Spark are separated, and they use their own directory; namely they are mutually exclusive - Apache Hive directory can only be accessed by Apache Hive or this library, and the Apache Spark directory can only be accessed by the existing API Apache Spark. In other words, some features, such as acid table or Apache Ranger with Apache Hive table, are only available through this Apache Spark library. These tables in Hive should not be directly accessible to the Apache Spark API itself. 2. Introduction this library provides both Scala (Java compatible) and Python APIs: SQL/DataFrame API interacts with both transactional and non-transaction tables Apache Hive SQL/DataFrame read support for SQL/DataFrame and structured broadcast write support 2.1. SQL/DataFrame Read Support Note: This chart shows the read execution path that illustrates the basics. For example, it can read the Apache Hive table in Apache Spark as follows: `import com.hortonworks.hwc.HiveWarehouseSession val hive = HiveWarehouseSession.session(spark).build() val df=hive.executeQuery(SELECT *FROM tableA)` It uses Apache Hive LLAP and scans data from the table to DataFrame. 2.2. SQL/DataFrame & Structured Streaming Write Support Hive Streaming API is used both in batch and streaming, which Apache Hive has introduced to continuously digest data. As implemented by data source V2, it supports the protocol commitment and supports atomic writing operation. Native Apache ORC writer is used instead, which has many as regards operational and The code below illustrates the writing data from Apache Spark to Apache Hive table in a structured broadcast. `import com.hortonworks.hwc.HiveWarehouseSession val hive = HiveWarehouseSession.session(spark).build() df.writeStream .format(HiveWarehouseSession.STREAM_TO_STREAM) .option (table, hwx_table) .note: This does not require hive LLAP demons to appear. 3. Prerequisites Apache Hive: Interactive Request (LLAP) should be enabled (see 7. Add-on Apache Ambari UI) Apache Spark: spark.hadoop.hive.llap.daemon.service.hosts should be set to the LLAP service application name because this library uses LLAP. For example, @llap0. The HiveServer2 JDBC URL must contain a spark.sql.hive.hiveserver2.jdbc.url, as well as a configured cluster. For example, jdbc:hive2://localhost:10000. Use HiveServer2 interactive JDBC URL instead of the traditional HiveServer2 JDBC URL. Make sure that spark.datasource.hive.warehouse.load.staging.dir is redirected to the correct HDFS-compatible staging directory, such as /tmp. Additionally, make sure that spark.datasource.hive.warehouse.metastoreUri is configured correctly. For example, thrift://localhost:9083 specify a Metastore URI. Note that spark.security.credentials.hiveserver2.enabled should be set to false YARN client installation mode, and correct yarn cluster installation mode (by default). This configuration is required for the Kerberized cluster. When spark.security.credentials.hiveserver2.enabled is set to false, spark.sql.hive.hiveserver2.jdbc.url.principal can be optionally set if spark.sql.hive.hiveserver2.jdbc.url is not the primary, e.g. hive/_HOST@EXAMPLE.COM. When spark.security.credentials.hiveserver2.enabled is set to true, spark.sql.hive.hiveserver2.jdbc.url.principal should be set, for example, hive/_HOST@EXAMPLE.COM. In addition, spark.sql.hive.hiveserver2.jdbc.url should not be the primary. 4. User scripts in this section are used in HDP 3.0.1.0 with Spark2, Hive, and Ranger in the kerberized group. Note that if you use samples of Kerberized clusters, such as HDP, make sure to receive (or renew) the Kerberos ticket by giving the ticket a kinit with the appropriate keytab. The following scenarios are run by the Spark Shell. For other interaction paradigms, such as Spark-submit, Livy, Zeppelin, etc., see the following sections for specific setup actions. Scala case: $spark shell --master yarn \ -jars /usr/hdp/3.0.1.0-183/hive_warehouse_connector/hive-warehouse-connector-assembly-1.0.0.3.0.1.0-183.jar \ --conf spark.security.credentials.hiveserver2.enabled=false Python case: $pyspark --master yarn \ -jars /usr/hdp/3.0.1.0-183/hive_warehouse_connector/hive-warehouse-connector-assembly-1.0.0.3.0.1.0-183.jar \ --py-files \ --conf spark.security.credentials.hiveserver2.enabled=false 4.1. SQL/DataFrame Read This script aims to display a bulk read operation as a batch job, from the Hive table to the Spark DataFrame with sql expression. This scenario uses FBI crime level data (see 7. SQL INSERT Request Attachment). Before we start, we should initiate an instance of HiveWarehouseSession. Scala case: import com.hortonworks.hwc.HiveWarehouseSession val hive = HiveWarehouseSession.session(spark).build() In python case: from pyspark_llap.sql.session import HiveWarehouseSession hive = HiveWarehouseSession.session(spark).build() In this case it uses hwc_db database. The following code shows the declining crime rate (100 000 inhabitants) between 2000 and 2010 in the USA: hive.setDatabase(hwc_db) hive.table (crime_rate | crimes -----). +-----+-----+ |2010| || of 40.5.2000 506.5| +-----+-----+ SQL queries can also be executed directly through the executeQuery API, which interacts directly with Hive LLAP demons. hive.executeQuery(SELECT avg(crime_rate) AS average_crime_rate OF crimes).show() +-----+-----+ |average_crime_rate| +-----+-----+ |456.335000000000004| +-----+-----+ 4.2. SQL/DataFrame Read (Apache Ranger Integration) From HDP 2.6, Row/Column Level Access Control Apache Spark is available, which allows small grain security controls to leverage the Apache Ranger. This feature can also be used by this library - the Apache Spark API does not support this. For example, the following scenarios show line-level control with users, billing, and datascience. The accounting entity can access all rows and columns, and the data scientist can access some filtered and masked data. First, we destroy the existing ticket and get the ticket as a biller. Then he carries the Spark shell. $kdestroy $kinit settlement@EXAMPLE.COM $spark shell --master yarn \ -jars /usr/hdp/3.0.1.0-183/hive_warehouse_connector/hive-warehouse-connector-assembly-1.0.0.3.0.1.0-183.jar \ --conf spark.security.credentials.hiveserver2.enabled=false Since the biller can access each line, it displays all the data, as it is. sql(select * from db_spark.t_spark).show() +-----+-----+ |fruits| colour| +-----+-----+ | apple| red| | grapes| purple| |sounded|carlet| +-----+-----+ We are now testing the same query as datascience, primary. $kdestroy $kinit datascience /datascience@EXAMPLE.COM $spark shell --master yarn \ -jars /usr/hdp/3.0.1.0-183/hive_warehouse_connector/hive-warehouse-connector-assembly-21.0.0.3.0.1.0-183.jar \ --conf spark.security.credentials.hiveserver2.enabled=false Because datascience, the main can only access filtered and rows, it displays only partial values. sql(select * from db_spark.t_spark).show() +-----+-----+ |fruits|color| +-----+-----+ || red| +-----+-----+ For more information, see Row/ Column Level Access Control for Apache Spark 7. Appendix. The Ranger security features, previously available in the sparkline connector, are now included in the Hive Warehouse Connector. The Apache Hive and Apache Spark configurations as described in point 3 should be followed. Prerequisites. 4.3. SQL/DataFrame Write This script aims to show the bulk write operation as a batch job between the Apache Hive table and the Apache Spark DataFrame with SQL expression.`



The hive table can be created as follows: `hive.createTable(crimes_2010).column(year, int).column(crime_rate, double).create()` Here the crime table (from 4.1 SQL/DataFrame Read) is saved in another Hive table by filtering spark data. The following code shows the crime rate in 2010 in the following table: `hive.table(crimes).filter(year = 2010).write.format(HiveWarehouseSession.HIVE_WAREHOUSE_CONNECTOR).option(crimes_2010).save()` Data can also be written in a stream way as follows: `hive.table(crimes).filter(year = 2010).write.format(HiveWarehouseSession.DATAFRAME_TO_STREAM).option(table, crimes_2010).save()` Note: This API Apache Spark Side job contains a batch job, but it writes data inside the Apache Hive Streaming API. Of course, we can write data from the Apache Hive table through Apache Spark data sources: `hive.table(crimes).write.format(csv).option(header, true).save(tmp/zip)` Also Apache Spark DataFrame can also write directly to Apache Hive table: `spark.read.format(csv).true crimes_2010 HiveWarehouseSession.HIVE_WAREHOUSE_CONNECTOR`. Structured streaming This script displays the streaming operation as a micro batch job, from the Apache Spark DataFrame to the Apache Hive table with the SQL expression. In this case, the socket is used as test data for structured streaming. Scala case: `val line = spark.readStream.format(socket).option(host, localhost).option(port, 9999).load()` In the case of Python: `lines = spark.readStream.format(socket).option(host, localhost).option(port, 9999).load()` In the next terminal, run the command below to insert the test data: `$nc -lk 9999` We create a target table to store traffic data. Note that this table can also be created on the Hive side, such as `CREATE TABLE hwx_table (value STRING); hive.createTable(hwx_table)`. Then import the library so that we can easily specify the format. Before we start, we should initiate an instance of `HiveWarehouseSession`. Scala case: `import com.hortonworks.hwc.HiveWarehouseSession` Python case: `from import HiveWarehouseSession` Next, it starts structured streaming work. In the terminal, which opened `nc -lk 9999`, we can insert arbitrary data, and when the terminal inserts Hortonworks, it stores data in the `hwx_table` table. `lines.filter(value= Hortonworks).writeStream.format(HiveWarehouseSession.STREAM_TO_STREAM).option(database, hwc_db).option(table, hwx_table).option(metastoreUri, spark.conf.get(spark.datasource.hive.warehouse.metastoreUri)).option(checkpointLocation, tmp/checkpoint)`. For more information, see SPARK-25460. As soon as this problem is resolved, both `metastoreUri` and `database` can be skipped as well. After you enter Hortonworks and arbitrary words terminal opening `nc -lk 9999 Foo Bar Hortonworks` It constantly inserts the word Hortonworks into `hwx_table`. `hive.table(hwx_table | -----).value | -----+ | Hortonworks| +-----+ 5. The paradigm of interaction this library can be interacted with, of course, Apache Spark, but also Apache Zeppelin and Apache Livy. This section shows the input points for these interaction paradigms to use this library to use the features provided. 5.1. Spark shell: $ spark shell --master yarn \ --jars /usr/hdp/3.0.1.0-183/hive_warehouse_connector/hive-warehouse-connector-assembly-1.0.0.3.0.1.0-183.jar \ --conf spark.security.credentials.hiveserver2.enabled=false 5.2. PySpark Shell: $ pyspark --master yarn \ --jars /usr/hdp/3.0.1.0-183/hive_warehouse_connector/hive-warehouse-connector-assembly-1.0.0.3.0.1.0-183.jar \ --py-files /usr/hdp/3.0.1.0-183/hive_warehouse_connector/pyspark_hwc-1.0.0.3.0.1.0-183.zip \ --conf spark.security.credentials.hiveserver2.enabled=false 5.3. Scala/Java Application Submission: Client Mode Case: $ Spark-Submit --Master Yarn --deploy-mode Client \ --jars /usr/hdp/3.0.1.0-183/hive_warehouse_connector/hive-warehouse-connector-assembly-1.0.0.3.0.1.0-183.jar \ --conf spark.security.credentials.hiveserver2.enabled=false [JAR_NAME] If 3. Prerequisites on the Apache Spark side were not configured, use the command to specify all configurations that for example: $spark-submit --master yarn --deploy-mode client \ --jars /usr/hdp/3.0.1.0-183/hive_warehouse_connector/hive-warehouse-connector-assembly-1.0.0.3.0.1.0-183.jar \ --conf spark.hadoop.hive.llap.daemon.service.hosts=@llap0 \ --conf sparks.sql.hive.hiveserver2.jdbc.url=jdbc:hive2://hostname.hwx.site:2181,hostname9.hwx.site:2181,hostname.hwx.site:2181,hostname.hwx.site:2181/default;principal=hive/_HOST@HWC.COM;serviceDiscoveryMode=zooKeeper;KeeperKeeper;ZooNamespace=hiveserver2-interactive \ spark.security.credentials.hiveserver2.enabled=false \ --conf spark.datasource.hive.warehouse.load.staging.dir=tmp \ --conf spark.datasource.hive.warehouse.metastoreUri=thrift://hostname.hwx.site:9083,thrift://hostname.hwx.site:9083 [JAR_NAME] Cluster mode: $ spark-submit --master yarn --deploy-mode cluster \ --jars /usr/hdp/3.0.1.0-183/hive_warehouse_connector/hive-warehouse-connector-assembly-1.0.0.3.0.1.0-183.jar [JAR_NAME] If 3. Prerequisites on the Apache Spark side were not globally configured using HWC, use the command to specify all configurations that are for example: $spark-submit --master yarn --deploy-mode cluster \ --jars /usr/hdp/3.0.1.0-183/hive_warehouse_connector/hive-warehouse-connector-assembly-1.0.0.3.0.1.0-183.jar \ --conf.hadoop.hive.llap.daemon.service.hosts=@llap0 \ --conf spark.sql.hive.hiveserver2.jdbc.url=jdbc:hive2://hostname.hwx.site:2181,hostname.hwx.site:2181,hostname.hwx.site:2181,hostname.hwx.site:2181/default;serviceDiscoveryMode=zooKeeper;KeeperKeeper;KeeperKeeper;ZooNamespace=hiveserver2-interactive \ --conf spark.sql.hive.hiveserver2.jdbc.url.principal=hive/_HOST@EXAMPLE.COM \ --conf spark.datasource.hive.warehouse.load.staging.dir=tmp \ --conf spark.datasource.hive.warehouse.metastoreUri=thrift://hostname.hwx.site:9083,thrift://hostname.hwx.site:9083 [JAR_NAME] 5.4. Python application submission: Client mode: $ spark-submit --master yarn --deploy-mode client \ --jars /usr/hdp/3.0.1.0-183/hive_warehouse_connector/hive-warehouse-connector-assembly-1.0.0.3.0.1.0-183.jar \ --py-files /usr/hdp/3.0.1.0-183/hive_warehouse_connector/pyspark_hwc-1.0.0.3.0.1.0-183.zip \ --conf spark.security.credentials.hiveserver2.enabled=false [PY_FILE] Cluster mode case: $ spark-submit --master yarn --deploy-mode cluster \ --jars /usr/hdp/3.0.1.0-183/hive_warehouse_connector/hive-warehouse-connector-assembly-1.0.0.3.0.1.0-183.jar \ --py-files /usr/hdp/3.0.1.0-183/hive_warehouse_connector/pyspark_hwc-1.0.0.3.0.1.0-183.zip [PY_FILE] 5.5. Apache Zeppelin Go to the translator setting. Find the interpreter settings and set the configuration accordingly. Spark interpreter case: Add spark.jars, such as: spark.jars=/usr/hdp/3.0.1.0-183/hive_warehouse_connector/hive-warehouse-connector-assembly-1.0.0.3.0.1.0-183.jar Python case: Add spark.jars, such as: spark.jars=/usr/hdp/3.0.1.0-183/hive_warehouse_connector/hive-warehouse-connector-assembly-1.0.0.3.0.1.0-183.jar If the translator is set to YARN client mode, spark.security.credentials.hiveserver2.enabled should be set to false as the following: spark.security.credentials.hiveserver2.enabled=false If you use the Kerberized cluster, remember to identify: spark.yarn.keytab spark.yarn.principal If Livy Translator: Add livy.spark.jars for example: For python use, you should also add the following configuration: For example: livy.spark.submit.pyFiles=file:/usr/hdp/3.0.1.0-183/hive_warehouse_connector/pyspark_hwc-1.0.0.3.0.1.0-183.zip Note: Local directories are not allowed by default for security reasons. Set up the local folder livy.file.local-dir-whitelist to read a specific directory. Use the HDFS path to avoid this setting by loading jar and zip file. If the translator is set to YARN client mode (see livy.spark.master and livy.spark.submit.deployMode), livy.spark.security.credentials.credentials.hiveserver2.enabled should be set to false as follows: livy.spark.security.credentials.hiveserver2.enabled=false If you are using the Kerberized cluster, remember to identify: zeppelin.livy.keytab zeppelin.livy.principal Note: To use HWC with Livy in a secure group, follow the documents here. 5.6. Apache Livy The code below describes the example of how to submit a Python application to Livy request with curl. $curl -X POST -H Content-Type: application/json -H X-Requested-By: hive --negotiate \ -u : 'hostname:8999/batches --data '{ conf: { spark.master: yarn cluster, spark.jars: file:/usr/hdp/3.0.1.0-183/hive_warehouse_connector/hive-warehouse-connector-assembly-1.0.0.3.0.1.0-183.jar, spark.submit.pyFiles: file:/usr/hdp/3.0.1.0-183/hive_warehouse_connector/pyspark_hwc-1.0.0.3.0.1.0-183.zip }, file: [PY_FILE]} | python -m json.tool This displays work information. { appld: null, applInfo: { driverLogUrl: null, sparkUrl: null }, id: 1, log: { stdout: , stderr: , YARN Diagnostics: }, state: starting } To correct the task information, get packages/ [ID] are used. $curl --negotiate -u : 'hostname:8999/batches/1 | python -m json.tool This query displays output, for example, as shown below. { appld: application_1539107884019_0071, applInfo: { driverLogUrl: 25454/container_e02_1539107884019_0071_01_000001/container_e02_1539107884019_0071_01_000001/hive_sparkUrl: , id: 1, log: [ 't: queue default, 't start time: 1539151855183, 't final status: UNDEFINED, 't tracking URL: 't user: hive, 18/10/10 06:10:55 INFO ShutdownHookManager: Shutdown hook called, 18/10/10 06:10:55 INFO ShutdownHookManager: Deleting directory /tmp/spark-6e254b5c-50f9-40d0-af06-c37d8c1a6428, 18/10/10 06:10:55 INFO ShutdownHookManager: Deleting directory /tmp/spark-253eac26-e86e-4699-82e6-ad281702fb85, stderr: , YARN Diagnostics: }, state: success } Note: The kerberized cluster is used in the example above; so --negotiate option used in curls. Note: Local directories are by default for security reasons Set up your local local at livy.file.local-dir-whitelist allow a certain directory to be readable. Use the HDFS path to avoid this setting by loading jar and zip file. Note: To use HWC with Livy in a secure group, follow the documents here. 6. Limitations lack of SQL support, including using syntax: Currently, the installation of data source V2 does not support SQL syntax, including using syntax Lack of R library support: This library currently only supports Scala, Java, and Python APIs. Apache Arrow integration and data source V2 restrictions are inherited. See SPARK-22386 data source V2 and SPARK-21187 for Apache Arrow integration in Apache Spark to track continuous efforts and limitations. Supported/unsupported data types and their association between Apache Hive and Apache Spark can be found in this link. 7. CREATE DATABASE hwc_db attachment; USE hwc_db; CREATE TABLE crimes(year INT, crime_rate DOUBLE); INCLUDED IN THE VALUES OF CRIME (1997, 611,0), (1998, 567.6), (1999, 523.0), (2000, 506.5), (2001, 504.5), (2002, 494.4) (2003, 475.8); INCLUDED IN THE CRIME VALUES (2004, 463.2), (2005, 469.0), (2006, 479.3), (2007, 471.8), (2008, 458.6), (2009, 431.9) (2010, 404.5); INCLUDE IN CRIME VALUES (2011, 387.1), (2012, 387.8), (2013, 369.1), (2014, 361.6), (2015, 373.7) (2016, 386.3); 386.3);`

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