



Configuring Drill JDBC driver with Splunk DB Connect



This post explains on how to setup Apache Drill JDBC driver with Splunk DB Connect.

Environment:

Centos 6.6 Splunk 6.6.2 Splunk db connect 3.1.0 Drill 1.10 MapR 5.2.0

1) Download the splunk enterprise version for Linux. You have to register account for downloading trial version. https://www.splunk.com/en_us/download/splunk-enterprise.htm

The RPM downloaded in my case is "splunk-6.6.2-4b804538c686-linux-2.6-x86_64.rpm"

2) Copy the downloaded rpm to server and install it.

Assuming rpm is copied to /tmp directory in server. Installing to /opt/splunk directory. rpm -i -prefix=/opt/splunk/tmp/splunk-6.6.2-4b804538c686-linux-2.6-x86_64.rpm

- 3) Download splunk db connect app 'splunk-db-connect_310.tgz' (3.1.0 version) from below URL https://splunkbase.splunk.com/app/2686/#/overview.
- 4) Untar the splunk-db-connect_310.tgz and copy it to /opt/splunk/splunk/etc/apps

tar -xvzf/tmp/splunk-db-connect_310.tgz -C /opt/splunk/splunk/etc/apps

5) Start splunk service using below command for first time by accepting license.

/opt/splunk/splunk/bin/splunk start -accept-license

6) Download MapR Drill JDBC driver from following link – . The DrillJDBC41.zip contains driver jar 'DrillJDBC41.jar' and other dependent jars.

http://package.mapr.com/tools/MapR-JDBC/MapR_Drill/MapRDrill_jdbc_v1.5.3.1006/

7) Copy driver jar that contains Driver class ('DrillJDBC41.jar') to /opt/splunk/etc/apps/splunk_app_db_connect/drivers. Create a directory 'DrillJDBC41-libs' inside 'drivers' and copy dependent jars to this directory.

[root@arjun-lab-73 drivers]# ls -ltrh /opt/splunk/splunk/etc/apps/splunk_app_db_connect/drivers

-rw-r-r-. 1 root root 582K Aug 9 01:37 DrillJDBC41.jar drwxrwxrwx. 2 root root 4.0K Aug 9 01:37 DrillJDBC41-libs [root@arjun-lab-73 drivers]#

8) Define connection type details in below configuration file. /opt/splunk/splunk/etc/apps/splunk_app_db_connect/local/db_connection_types.conf.

[root@arjun-lab-73 local]# cat db_connection_types.conf
[default]

[drill]

displayName = drill

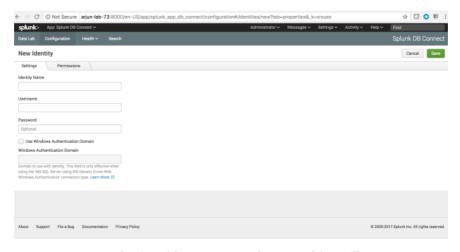
serviceClass = com.splunk.dbx2.DefaultDBX2JDBC

jdbcDriverClass = com.mapr.drill.jdbc41.Driver

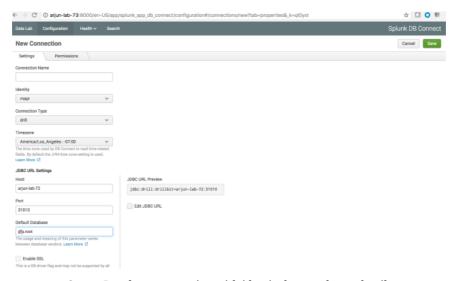
jdbcUrlFormat = jdbc:drill:drillbit=<host>:<port>

useConnectionPool = false

9) Connect to Splunk UI and create identities and Drill connection with connection URL specific to environment.

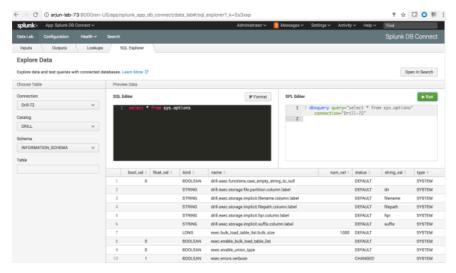


Create Identity with user name and password for Drill user



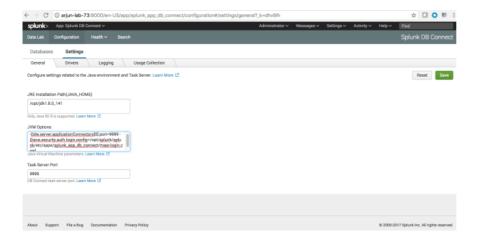
Create Database connection with identity, host and port details

10) Validate the connection with sample queries in SQL explorer.



Test connection using SQL explorer

- 11) If environment is MapR secure cluster , We would require to set below property as JVM option in DB connect settings.
- -Djava.security.auth.login.config=/path/to/mapr.login.conf



Another observation is that – With above settings in MapR secure cluster, We would be able to list databases/Tables from left side panel in SQL explorer. But it failed with below exception while querying from SQL editor window.

java.sql.SQLException: [MapR][Drill]DBCDriver](500150) Error setting/closing connection:

The corresponding job log shows below exception.

08-10-2017 11:38:04.664 ERROR ChunkedExternProcessor – stderr: Caused by:
com.mapr.support.exceptions.ErrorException: javax.security.sasl.SaslException: Authentication
failed unexpectedly. [Caused by java.util.concurrent.ExecutionException:
javax.security.sasl.SaslException: Failed to login. [Caused by
javax.security.auth.login.LoginException: No LoginModules configured for hadoop_simple]]

Below step helped to resolve the issue.

1) Edit /opt/splunk/splunk/etc/apps/splunk_app_db_connect/linux_x86_64/bin/command.sh to include 'Djava.security.auth.login.config' property. Below is change.

```
[root@arjun-lab-73 bin]# cat
opt/splunk/splunk/etc/apps/splunk_app_db_connect/linux_x86_64/bin/command.sh
SCRIPT=$(readlink -f "$0")
JAVA PATH FILE=$(dirname "$SCRIPT")/customized.java.path
if [ -f $JAVA_PATH_FILE ]; then
JAVA_CMD=`cat $JAVA_PATH_FILE`
elif [!-z "$JAVA_HOME"];then
JAVA_CMD="$JAVA_HOME/bin/java"
else
JAVA_CMD="java"
fi
export DRILL OPTS="-
Djava.security.auth.login.config=/opt/splunk/splunk/etc/apps/splunk_app_db_connect/mapr.login.conf"
exec $JAVA_CMD $DRILL_OPTS $@
#exec $IAVA CMD $@
[root@arjun-lab-73 bin]
```

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