Beeline command in Hadoop and how do we handle its failure.

Beeline command is a alternative to hive CLI which can give access to hdfs systems from other sources. That is why you can get into hive within the shell script.

It is part of hive 2.0 version.

This beeline command supports SQL queries and also jdbc connection to databases.

A beeline query is written with EOF statements. All the scripts and options to be in between this EOF.

For example .

beeline --silent -u "jdbc:hive2://hs2lb01.prod.topsoil.marathon.vanguard.services.nw.ai.cba:10000/default;principal=aaaa @AU.NET.COM " <<EOF

use preprod\_dil\_bts;

show create table bts\_non\_fncl\_tran\_atm\_cshf\_daly\_asbcatmo\_v1;

show partitions bts\_non\_fncl\_tran\_atm\_cshf\_daly\_asbcatmo\_v1;

select count(\*) from bts\_non\_fncl\_tran\_atm\_cshf\_daly\_asbcatmo\_v1;

show create table bts\_non\_fncl\_tran\_brch\_cshf\_daly\_asbcgrpo\_v1;

show partitions bts\_non\_fncl\_tran\_brch\_cshf\_daly\_asbcgrpo\_v1;

select count(\*) from bts\_non\_fncl\_tran\_brch\_cshf\_daly\_asbcgrpo\_v1;

show create table bts\_non\_fncl\_tran\_totl\_cshf\_daly\_asbctoto\_v1;

show partitions bts\_non\_fncl\_tran\_totl\_cshf\_daly\_asbctoto\_v1;

select count(\*) from bts\_non\_fncl\_tran\_totl\_cshf\_daly\_asbctoto\_v1;

EOF

--silent means do not throw any results on to standard output.

--U means the url to connect

-q means query .

The most important reason for beeline to fail is the query not entered within EOF

Or Kerberos authentication.

Kerberos authentication in greek means 3 headed dog. It is basically used to grant ticket

To access different systems. There is a key share between 3 different parties similar to

3 headed dog. Easier to maintain than ssl as no certificate sharing is involved.

The authentication server , ticket granting server, filesystem all share authentication with each other .

Access to beeline is like a movie ticket which will expire after it is used.

Kerberos is an external agent for authentication within hdfs system which is distributed in nature and Hadoop does not have any of its internal auth mechanism.

Commands used:

Klist : this command in shell gives local credentials cache and keytable Since it is like a movie ticket

The access expires always.

Today we triggered this command to ensure the ticket is provided again for access using kinit.K and T

Stand for requesting the ticket.