

SMOKE TEST DOCUMENT

CDH and HDP Smoke Test Cases

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1 TESTING BASIC FUNCTIONALITY OF YARN

Sample command to run the yarn test

hadoop --config /usr/hdp/3.1.0.0-78/hadoop/conf jar /usr/hdp/3.1.0.0-78/hadoop-mapreduce-examples-3.*.jar wordcount /user/ambari-qa/mapredsmokeinput /user/ambari-qa/mapredsmokeoutput

 Word Count will run on input data file in the below path /user/ambari-qa/mapredsmokeinput

Output will be written to this file

/user/ambari-qa/mapredsmokeoutput



2 TESTING BASIC FUNCTIONALITY OF HBASE

•	Following command is only for kerberos
	kinit -kt {keytab path} {principal}

- Run in hbase shell
 - > hbase shell
- Execute the below command to disable database disable 'smoketest'
- Execute the below command to drop database drop 'smoketest'
- Execute the below command to create table create 'smoketest', 'family'
- Execute the below command to insert data in to table
 put 'smoketest','row01','family:col01','id000a2001_date232319'
- Execute the below command to view the data in HTable scan 'smoketest'
 exit

3 TESTING BASIC FUNCTIONALITY OF HIVE

Execute the below command only for Kerberos
 kinit -kt {keytab path} {principal}

Execute the below command to run beeline

```
> beeline -u "{hive jdbc url}"
```

 Execute the below command to drop database drop database if exists smoketest;

 Execute the below command to create database create database if not exists smoketest;

 Following command is to use the database use smoketest:

Following is an example to insert the data in to table create table smoketable(number int, name string); insert into smoketable values(1,'test1'); insert into smoketable values(2,'test2');

 Fetching the records from table select count(*) from smoketable;

 Execute the below command to drop table drop table smoketable;
 !quit;

4 TESTING BASIC FUNCTIONALITY OF IMPALA

 Execute the below command only for Kerberos kinit -kt {keytab path} {principal}

- Execute the below command to get impala shell
 - > impala-shell -k -i {impala deamon url}
- Execute the below command to drop database drop database if exists smoketest;
- Execute the below command to create database create database if not exists smoketest;
- Execute the below command to use database use smoketest;
- Following is an example to insert the data in to table create table smoketable(number int, name string); insert into smoketable values(1,'test1'); insert into smoketable values(2,'test2');
- Fetching the records from table select count(*) from smoketable;
- Execute the below command to drop table drop table smoketable;
 quit;



5 TESTING BASIC FUNCTIONALITY OF ZOOKEEPER

 Execute the below command only for Kerberos kinit -kt {keytab path} {principal}

• Execute zookeeper-client-server

> zookeeper-client -server {zk-host:2181}

 Execute the below command to return the associated data in znode get /zk_smoketest

 Execute the below command to create data in znode create /zk_smoketest []

 Execute the below command to set data in specific path of znode set /zk_smoketest testdata
 get /zk_smoketest

 Execute the below command to delete the znode in specific path delete /zk_smoketest
 quit



6 TESTING BASIC FUNCTIONALITY OF PIG

 Execute the below command only for Kerberos kinit -kt {keytab path} {principal}

- Execute the below command to put hosts information into etc/passwd /tmp file
 hdfs dfs -put /etc/passwd /tmp
- Run pig shell

A = load '/tmp/passwd' using PigStorage(':');
B = foreach A generate \\$0 as id;

 Execute the below command to stores output in separate file store B into 'pigsmoke.out';
 quit;

7 TESTING BASIC FUNCTIONALITY OF SPARK

• Execute the below command only for Kerberos

kinit -kt {keytab path} {principal}

- Run PySpark shell
 - > pyspark
- Source code

Output

[1, 4, 9, 16]