logocover

**Smoke test DOCUMENT**

CDH and HDP Smoke Test Cases

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# 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/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

# 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

# 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;

# 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;

# 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

# 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;

# Testing basic Functionality of Spark

* Execute the below command only for Kerberos

kinit -kt {keytab path} {principal}

* Run PySpark shell

> pyspark

* Source code

>>> a = [1,2,3,4]

>>> b = sc.parallelize(a)

>>> c = b.map(lambda x: x\*x)

>>> c.collect()

* Output

[1, 4, 9, 16]