Lab3a- HDFS Commands

1) Version of hadoop

Code:

hadoop version # Hadoop 2.6.0-cdh5.12.0

Output:

Hadoop 2.6.0-cdh5.12.0

Subversion http://github.com/cloudera/hadoop -r dba647c5a8bc5e09b572d76a8d29481c78d1a0dd

Compiled by jenkins on 2017-06-29T11:32Z

Compiled with protoc 2.5.0

From source with checksum 7c45ae7a4592ce5af86bc4598c5b4

This command was run using /usr/lib/hadoop/hadoop-common-2.6.0-cdh5.12.0.jar

2) LS Command

Code:

hadoop fs -ls / # display list of file and directories

Output:

Found 6 items

drwxrwxrwx - hdfs supergroup 0 2017-07-19 05:34 /benchmarks

drwxr-xr-x - hbase supergroup 0 2017-09-09 16:01 /hbase

drwxr-xr-x - solr solr 0 2017-07-19 05:37 /solr

drwxrwxrwt - hdfs supergroup 0 2017-09-09 12:57 /tmp

drwxr-xr-x - hdfs supergroup 0 2017-07-19 05:36 /user

drwxr-xr-x - hdfs supergroup 0 2017-07-19 05:36 /var

3) Make Directory

Code:

hadoop fs -mkdir /bigdata

hadoop fs -ls /

Output:

Found 7 items

drwxrwxrwx - hdfs supergroup 0 2017-07-19 05:34 /benchmarks

drwxr-xr-x - cloudera supergroup 0 2017-09-09 17:45 /bigdata

drwxr-xr-x - hbase supergroup 0 2017-09-09 16:01 /hbase

drwxr-xr-x - solr solr 0 2017-07-19 05:37 /solr

drwxrwxrwt - hdfs supergroup 0 2017-09-09 12:57 /tmp

drwxr-xr-x - hdfs supergroup 0 2017-07-19 05:36 /user

drwxr-xr-x - hdfs supergroup 0 2017-07-19 05:36 /var

4) DU Command

Code:

hadoop fs -du -s /user/cloudera

Output:

0 0 /user/cloudera

5) TOUCHZ command

Code:

hadoop fs -touchz /user/cloudera/data1 # sample data called data1

hadoop fs -du -s /user/cloudera/data1

Output:

0 0 /user/cloudera/data1

6) Cat Command

Code:

hadoop fs -cat /user/cloudera/data1

Output:

# empty file produces empty result

7) Cat > Command

Code:

cat > hadooptraining

Hello Hadoop!

Welcome to my test.

Thanks -Prat

ls

Output:

cloudera-manager eclipse lib Templates

cm\_api.py enterprise-deployment.json Music Videos

Desktop express-deployment.json parcels workspace

Documents hadooptraining Pictures work.txt

Downloads kerberos Public work.txt~

8) Cat >> Command

Code:

cat >> hadooptraining

Hello Prat! Welcome!

cat hadooptraining

Output:

Hello Hadoop!

Welcome to my test.

Thanks – Prat

Hello Prat! Welcome!

9) Copy from Local

Code:

hadoop fs -copyFromLocal /home/cloudera/hadooptraining /user/cloudera

hadoop fs -ls /user/cloudera

Output:

Found 2 items

-rw-r--r-- 1 cloudera cloudera 0 2017-09-09 17:57 /user/cloudera/data1

-rw-r--r-- 1 cloudera cloudera 67 2017-09-09 18:22 /user/cloudera/hadooptraining

10) Copy To Local

Code:

hadoop fs -copyToLocal hadoop /home/cloudera

ls

Output:

cloudera-manager eclipse kerberos Public work.txt~

cm\_api.py enterprise-deployment.json lib Templates

Desktop express-deployment.json Music Videos

Documents hadoop parcels workspace

Downloads hadooptraining Pictures work.txt

11) Put

Code:

hadoop fs -put hadoop /user/cloudera

hadoop fs -ls

Output:

Found 3 items

-rw-r--r-- 1 cloudera cloudera 0 2017-09-09 17:57 data1

drwxr-xr-x - cloudera cloudera 0 2017-09-09 18:34 hadoop

-rw-r--r-- 1 cloudera cloudera 67 2017-09-09 18:22 hadooptraining

12) Get Command

Code:

hadoop fs -get bigdata /home/cloudera

ls

Output:

bigdata eclipse lib Videos

cloudera-manager enterprise-deployment.json Music workspace

cm\_api.py express-deployment.json parcels work.txt

Desktop hadoop Pictures work.txt~

Documents hadooptraining Public

Downloads kerberos Templates

13) Count command

Code:

hadoop fs -count /user/cloudera

hadoop fs -ls /user/cloudera

Output:

3 2 67 /user/cloudera

Found 4 items

drwxr-xr-x - cloudera cloudera 0 2017-09-09 18:42 /user/cloudera/bigdata

-rw-r--r-- 1 cloudera cloudera 0 2017-09-09 17:57 /user/cloudera/data1

drwxr-xr-x - cloudera cloudera 0 2017-09-09 18:34 /user/cloudera/hadoop

-rw-r--r-- 1 cloudera cloudera 67 2017-09-09 18:22 /user/cloudera/hadooptraining

14) RM command

Code:

hadoop fs -rm data1

hadoop fs -ls

Output:

Found 3 items

drwxr-xr-x - cloudera cloudera 0 2017-09-09 18:42 bigdata

drwxr-xr-x - cloudera cloudera 0 2017-09-09 18:34 hadoop

-rw-r--r-- 1 cloudera cloudera 67 2017-09-09 18:22 hadooptraining

15) RMR command

Code:

hadoop fs -rmr bigdata

hadoop fs -ls

Output:

rmr: DEPRECATED: Please use 'rm -r' instead.

Deleted bigdata

Found 2 items

drwxr-xr-x - cloudera cloudera 0 2017-09-09 18:34 hadoop

-rw-r--r-- 1 cloudera cloudera 67 2017-09-09 18:22 hadooptraining