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Basic Hadoop Commands

Aim:

To learn some of the basic Hadoop Commands and excute them in a single node hadoop cluster.

Procedure:

- 1. Login With hduser in the ubuntu machine which has the hadoop single node cluster setup.
- 2. Navigate into the Hadoop Home Directory.
- 3. Start all the hadoop daemons.
- 4. Now, start executing the basic hadoop commands.

```
cloudlab@cloudlab...9020:~$su hduser
hduser@cloudlab...9020:~$cd $HADOOP_HOME
hduser@cloudlab...9020:~/usr/local/hadoop$start-dfs.sh
hduser@cloudlab...9020:~/usr/local/hadoop$start-yarn.sh
```

Basic Hadoop Commands:

Command for creating a new directory

```
bin/hadoop fs -mkdir -p /demo/day1
bin/hadoop fs -mkdir -p /demo/day2
```

Command for removing a directory

bin/hadoop fs -rm -r /demo/day3

Command to Append single src, or multiple srcs from local file system to the destination file system. Also reads input from stdin and appends to destination file system.

bin/hdfs dfs -appendToFile localfile /user/hadoop/hadoopfile bin/hdfs dfs -appendToFile localfile1 localfile2 /user/hadoop/hadoopfile bin/hdfs dfs -appendToFile localfile hdfs://localhost:9000/user/hadoop/hadoopfile bin/hdfs dfs -appendToFile /opt/hadoop-2.7.1/README.txt hdfs:///user/hadoop/hadoopfile

Reading the input from stdin

#prompt will wait to read the input from stdin. to finish <ctrl+c>

hdfs dfs -appendToFile - hdfs:///user/hadoop/hadoopfile

cat - Displaying the contents of a file in the hdfs

bin/hadoop fs -cat /user/hadoop/hadoopfile

put - Moving a file from the local filesystem to hdfs

bin/hadoop fs -put ../BX-CSV-Dump/*.csv /demo/day2

```
moveFromLocal – Similar to 'put' command

bin/hdfs dfs -moveFromLocal <localsrc> <dst>

moveToLocal – Move a file from hdfs to local filesystem

bin/hdfs dfs -moveToLocal <src> <localdst>

copyFromLocal – Copy a File from the local filesystem to

hdfs bin/hdfs dfs -copyFromLocal <localsrc> <dst>

copyToLocal – Copy a File from hdfs to local filesystem.

bin/hdfs dfs -copyToLocal <src> <localdst>

Copy files between directories present in HDFS

bin/hdfs dfs -cp /user/hadoopfile /user/hadoop/hadoopfile

Move the file from one hdfs location to other

bin/hdfs dfs -mv /user/hadoopfile /user/hadoop/hadoopfile

List the files in hdfs

bin/hadoop fs -ls /
```

Output:

```
🕽 🗇 🕦 hduser@cloudlab-OptiPlex-9020: /usr/local/hadoop
hduser@cloudlab-OptiPlex-9020:/usr/local/hadoop$ jps
30627 DataNode
30474 NameNode
31224 NodeManager
30820 SecondaryNameNode
28551 Jps
31098 ResourceManager
hduser@cloudlab-OptiPlex-9020:/usr/local/hadoop$ bin/hadoop fs -ls /
16/09/28 17:01:46 WARN util.NativeCodeLoader: Unable to load native-hadoop libra
ry for your platform... using builtin-java classes where applicable
Found 3 items
             1 hduser supergroup 1428841 2016-09-26 18:59 /input.txt
- FW- F-- F--
             - hduser supergroup
                                          0 2016-09-26 19:26 /output
drwxr-xr-x
             - hduser supergroup
                                          0 2016-09-26 19:26 /tmp
hduser@cloudlab-OptiPlex-9020:/usr/local/hadoop$
```

Result:

Thus some of the basic Hadoop Commands have been learned and executed successfully in a single node hadoop cluster.