1

Namenode's URI is hdfs://localhost:8020, it’s configured with fs.default.name property that’s specified in $HADOOP_CONF_DIR/core-site.xml

NOTE: 8020 and 9000 are IPC ports for namenode. The default port for namenode UI is 50070.

2

Namenode will store its image under /home/hadoop/Training/hadoop_work/data/name, it's configured with dfs.namenode.name.dir property thats specified in $HADOOP_CONF_DIR/hdfs-site.xml

3

Datanode will store data blocks under /home/hadoop/Training/hadoop_work/data/data, it's configured with dfs.datanode.data.dir property that’s specified in $HADOOP_CONF_DIR/hdfs-site.xml

4

Replication is set to 1, it's configured with dfs.replication property that’s specified in $HADOOP_CONF_DIR/hdfs-site.xml

Perform Solution

1. Perform the following steps:

$ cd $HADOOP_HOME/sbin

$ ./start-dfs.sh This will start the Namenode, Secondary Namenode all the configured Datanodes, which in this case is just one (localhost)

You can verify with the browser or via command line:

Open a browser and just navigate to http://localhost:50070, make sure there are no warnings

under the summary of cluster section and there is 1 live node. We must make sure there are no 'Dead Nodes'

Secondary Namenode can be confirmed via http://localhost:50090

Execute on the command line $ hadoop dfsadmin -report, you will get a report about the

live node 1, dead node 0

2. $ hdfs dfs -mkdir /exercise1

3. Perform the following steps:

a. $ cd /home/cloudera/Data

b. $ hdfs dfs -put /exercise1/

4. $ hdfs dfs -ls /exercise1/

5. Perform the following steps:

a. $ hdfs dfs -du -h largedeck.txt

693 M 693 M largedeck.txt

6. $ hdfs dfs -cat largedeck.txt | head -n 25 largedeck.txt

7. $ hdfs dfs -cp /exercise1/largedeck.txt /exercise1/largedeckcopy.txt

8. $ hdfs dfs -get /exercise1/hamlet.txt hamlet_copy.txt

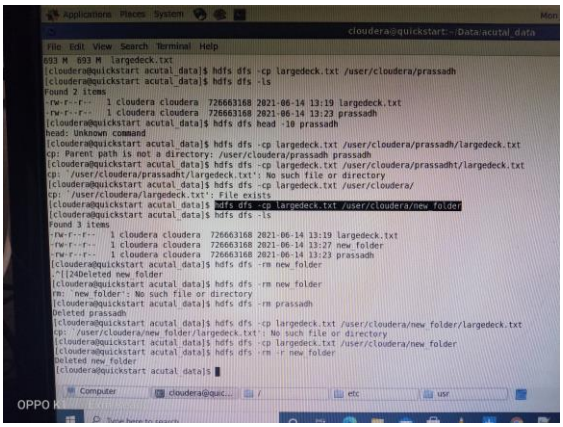
9. $ hdfs fsck /

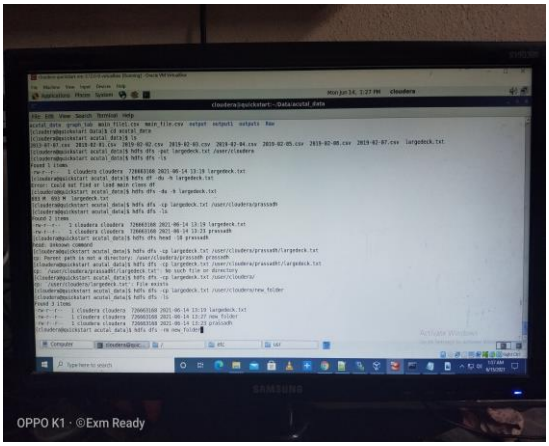
10.hdfs dfs -cp largedeck.txt /user/cloudera/new_folder

$ hdfs dfs -rm new_folder

11. $ hdfs dfs -rm -r

12. $ hdfs dfs –help


Applications Places System
cloudera@quickstart:~/Data/acutal_data
File Edit View Search Terminal Help
693 M 693 M largedeck.txt
[cloudera@quickstart acutal_data]$ hdfs dfs -cp largedeck.txt /user/cloudera/prassadh
[cloudera@quickstart acutal_data]$ hdfs dfs -ls
Found 2 items
-rw-r--r-- 1 cloudera cloudera 726663168 2021-06-14 13:19 largedeck.txt
-rw-r--r-- 1 cloudera cloudera 726663168 2021-06-14 13:23 prassadh
[cloudera@quickstart acutal_data]$ hdfs dfs head -10 prassadh
head: Unknown command
[cloudera@quickstart acutal_data]$ hdfs dfs -cp largedeck.txt /user/cloudera/prassadh/largedeck.txt
cp: Parent path is not a directory: /user/cloudera/prassadh prassadh
[cloudera@quickstart acutal_data]$ hdfs dfs -cp largedeck.txt /user/cloudera/prassadht/largedeck.txt
cp: `/user/cloudera/prassadht/largedeck.txt': No such file or directory
[cloudera@quickstart acutal_data]$ hdfs dfs -cp largedeck.txt /user/cloudera/
cp: `/user/cloudera/largedeck.txt': File exists
[cloudera@quickstart acutal_data]$ hdfs dfs -cp largedeck.txt /user/cloudera/new_folder
[cloudera@quickstart acutal_data]$ hdfs dfs -ls
Found 3 items
-rw-r--r-- 1 cloudera cloudera 726663168 2021-06-14 13:19 largedeck.txt
-rw-r--r-- 1 cloudera cloudera 726663168 2021-06-14 13:27 new_folder
-rw-r--r-- 1 cloudera cloudera 726663168 2021-06-14 13:23 prassadh
[cloudera@quickstart acutal_data]$ hdfs dfs -rm new_folder
^[[24Deleted new_folder
[cloudera@quickstart acutal_data]$ hdfs dfs -rm new_folder
rm: `new_folder': No such file or directory
[cloudera@quickstart acutal_data]$ hdfs dfs -rm prassadh
Deleted prassadh
[cloudera@quickstart acutal_data]$ hdfs dfs -cp largedeck.txt /user/cloudera/new_folder/largedeck.txt
cp: `/user/cloudera/new_folder/largedeck.txt': No such file or directory
[cloudera@quickstart acutal_data]$ hdfs dfs -cp largedeck.txt /user/cloudera/new_folder
[cloudera@quickstart acutal_data]$ hdfs dfs -rm -r new_folder
Deleted new_folder
[cloudera@quickstart acutal_data]$
Computer
cloudera@quic...
/
etc
usr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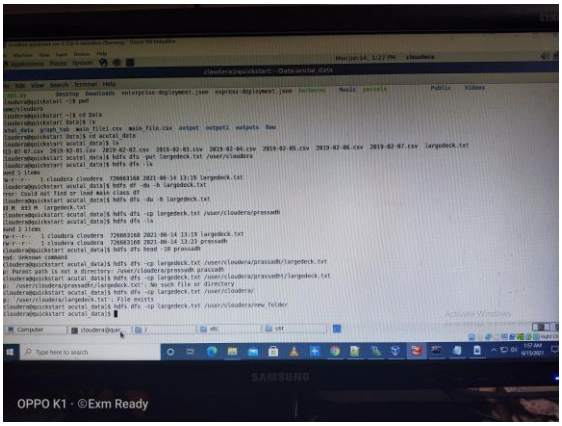
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