Table of Contents

Assignment 2 - HDFS and Map Reduce
Create a test file which is more than 500 MB (for example zip a movie) then upload it to HDP then run the command mentioned in the lecture (HDFS -Part 2 Lecture - Slide 48 -53)
use the following link and explore the commands for fsck and dfs. Choose five commands from fsk and five commands from dfs. make sure you explain the command along with screen shots) 4
Part 2 (A) Follow the slides (Week 7 – Hadoop Map Reduce Framework page 73-77). Copy salesjan 2009 and jar file to your Hadoop cluster then run the following command

Assignment 2 - HDFS and Map Reduce

Objective: Transfer a file to HDP and run few HDFS commands

Create a test file which is more than 500 MB (for example zip a movie) then upload it to HDP then run the command mentioned in the lecture (HDFS -Part 2 Lecture - Slide 48 -53)

Firstly, I took a file which I converted into Zip it was kept in my local file which I uploaded to HDP (figure 1).

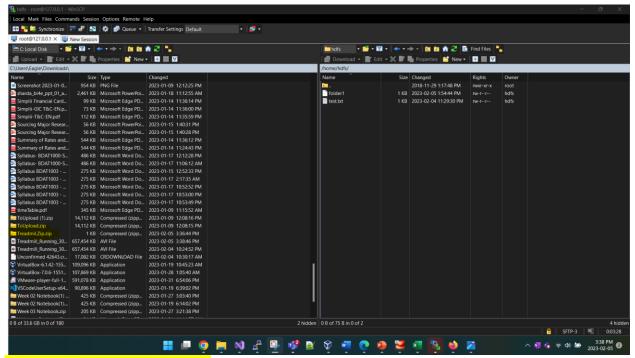


Figure 1Uploaded Zip file

Here, I made a directory of BDAT using *hdfs dfs -mkdir {/name of directory}* command after that I used *ls command* to check that I created a dictionary or not (figure 2).

Figure 2 Made Dirc

In this third figure I ran the command hdfs dfs -copyFromLocal {File name } /BDAT{Dir}

hdfs dfs -ls /BDAT for check the test file in the directory. (figure 3).

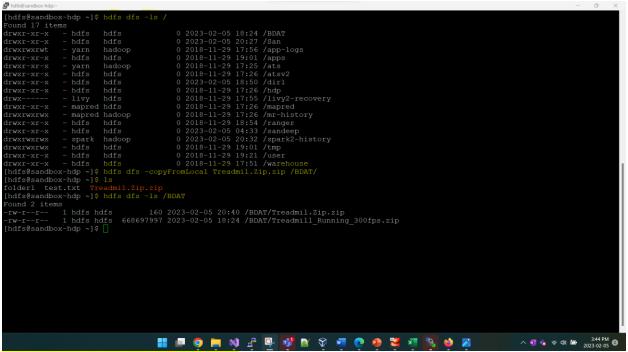


Figure 3 used copy from local

use the following link and explore the commands for fsck and dfs . Choose five commands from fsk and five commands from dfs. make sure you explain the command along with screen shots)

There are some five commands which I took from **dfs** such as **put**, **get**, **chmod**, **ls**, **cat**

in this figure I used chmod command to change the permission. *Chmod 700 {file name}.*

My hello file was able to write and read after after changing the permsiion with dfs it can be executed (figure 4).

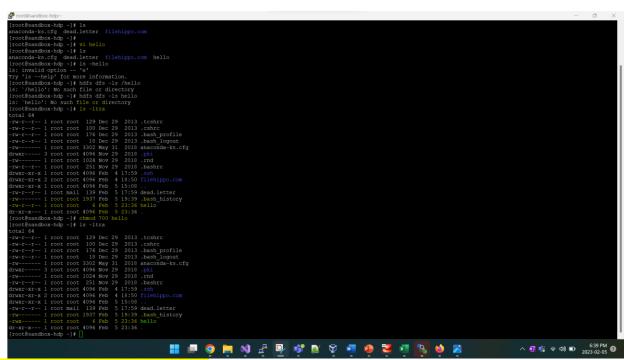


Figure 4 chmod command

I used **put command** to uploading file local system to **hdfs** system. I wanted to upload my folder 1 file into San directory so I gave **hdfs dfs -put {file name }** /San

San is a directory. Moreover I used get command which do same work (Figure 5)

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Figure 5 get and put command

I used Is command to check the content of San directory where I got 2 files. One in both of them I used cat command to check the file comment. For instance, hdfs dfs -cat {file path and name} (figure 6).

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Figure 6 Cat command

There are five commands which I took from **fsck** such as **location**, **delete**, **files**, **racks**, **blocks**. Here I am going to describe all commands below:

I used **fsck files command** which tell us all files information in figure 7 a) The full command is hdfs fsck /San -files. Here San is a directory.

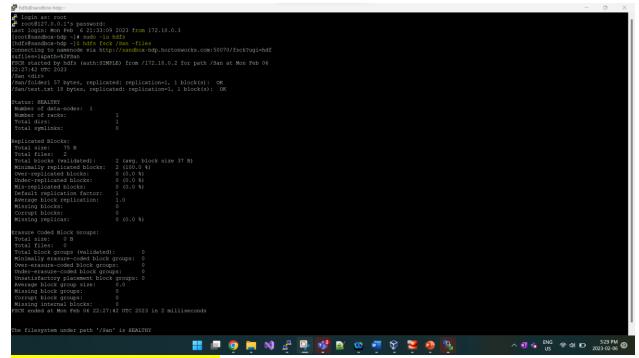


Figure 7(a) files command

I used block commands from **fsck** and checked **blocks** id in (figure 7)

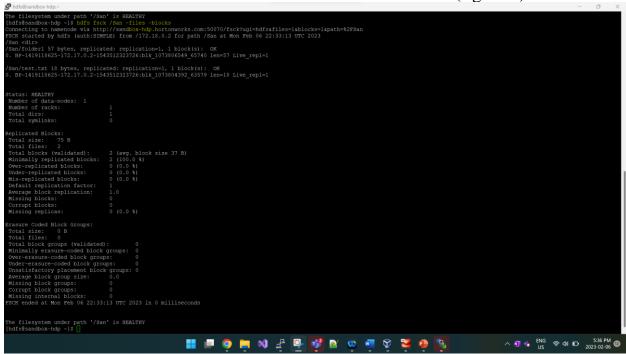


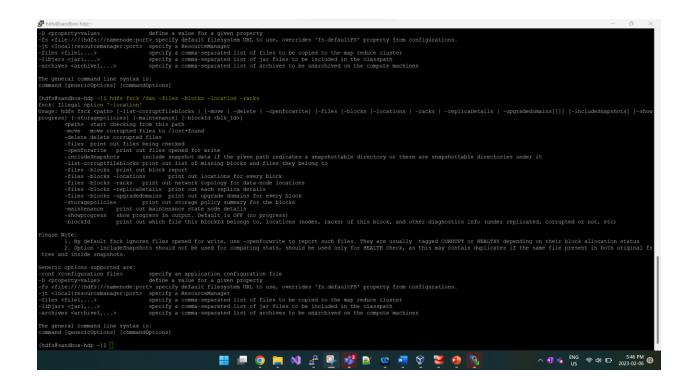
Figure 8 Block command

I used delete command from fsck to delete some files into San directory (figure 8)

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Figure 9 delete command

In figure 9, I used **racks** and **location command** from **fsck** to check the location of the file and rack command is nothing, but it is in a location so just checked the **Datanodes.**



Part 2 (A) Follow the slides (Week 7 – Hadoop Map Reduce Framework page 73-77). Copy salesjan2009 and jar file to your Hadoop cluster then run the following command....

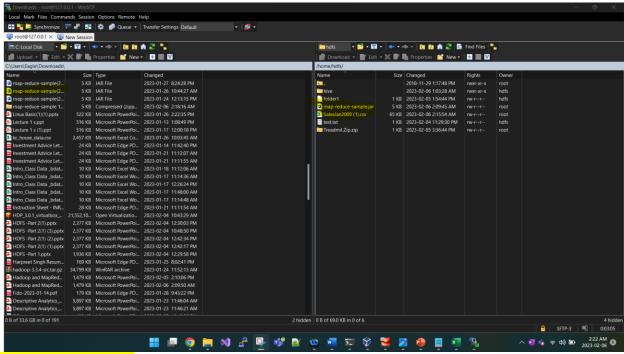


Figure 10 jar file

Firstly, I made a directory of abhishek then I transferred a jar file and map reduce. I used 1 -ls command after switching to hdfs user so then I used a command of which you told us to follow

It is Hadoop jar map-reduce-sample.jar /abhishek /SalesJan2009.cav /abhishek /mp_output then got the file info.

After getting all details I used to **hdfs dfs -ls /abhishek/** I got my files then used hdfs dfs -ls /abhishek/mp_output

Used cat command to get the result hdfs dfs -cat/abhishek/mp_output/_success hdfs dfs -cat/abhishek/mp_output/part-0000

I got the result in figure 12.

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Figure 11 hadoop jar command

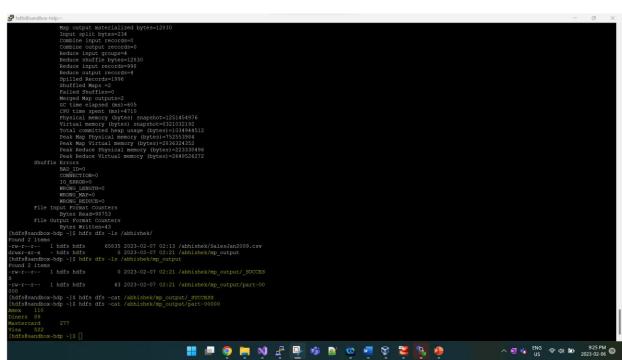


Figure 12Output