

HDFS Commands

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See List of Commands

hadoop fs hdfs dfs To get help



hadoop fs -help Is

MOYTECT,

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Listing Files & Directories



Is /home/cloudera (list all the files in local system)

hadoop fs -ls /user/cloudera (list the files in hdfs)

Note:

The home directory in local is /home/cloudera

The home directory in hdfs is /user/cloudera

How does HDFS commands work?



All the hdfs commands will interact with hamenode and show the results.

Example: Is

however some commands will also go to the datanodes to read the data from files.

Ex: cat, tail



Is command (various sorting techniques).

Sort by Name

hadoop fs -ls /

sort by time in reverse order

hadoop fs -ls -t -r /

sort by size, by default largest is at the top

hadoop fs -ls S

sort by size, size will be displayed in human readable form

hadoop fs -ls -S -h /



A few more Is commands

list recursively

hadoop fs -ls -R /

search in the list using grep

hadoop fs -ls /user | grep cloudera

home directory for a user in hdfs is /user/cloudera

hadoop fs -ls (or) hadoop fs - ls /user/cloudera



Creating a new directory

Creating a new directory inside you home

hadoop fs -mkdir /user/cloudera/testing

Creating a hierarchy of directories

hadoop fs -mkdir -p /user/cloudera/folder1/folder2



Removing a file or directory

rm can be used to remove files (but not directories)

hadoop fs -rm /user/cloudera/file1.txt

To remove a directory we have to give -R

hadoop fs -rm -R/user/cloudera/testing

rmdir can only remove empty directories

hadoop fs -rmdir /user/cloudera/folder1 (this will give error as folder1 directory is not empty)



Copying files or folder from local to hdfs

2 commands used for this purpose are:

copyFromLocal (or) put

Step 1: hadoop fs -mkdir /data (creating hdfs dir)

Step 2: create file].txt on local Desktop

Step 3: Run the below command

hadoop fs -copyFromLocal Desktop/file1.txt /data



Copying files or folder from local to hdfs

copy folder from local to hdfs

Scenario 1: destination folder does not have the same name

hadoop fs -copyFromLocal Desktop/folder1 /data

Scenario 2: destination folder has the same name

hadoop fs -copyFromLocal Desktop/folder1 /data/folder1



Copying files or folder from hdfs to local <

2 commands used for this purpose are: copyToLocal (or) get

hadoop fs -copyToLocal <hdfs path> <local path>

Or

hadoop fs eget <hdfs path> <local path>



To view first few lines or last few lines

tail to view last 10 lines

hadoop fs -tail <hdfs filepath>

head command does not work to see first 10 lines

We can use more command

hadoop fs -cat <hdfs filepath> | more



Copy files/folders from one hdfs location to other

We can use cp command for this

hadoop fs -cp <hdfs file path> <hdfs location2>

So basically hdfs file path is the path where the file exists in hdfs.

hdfs location2 is the new path in hdfs where we want to move the file.



Cut paste the files/folders from one location in hdfs to other

This is actually nothing but renaming a file.

So just the metadata needs to be updated and this is very quick.

hadoop fs -mv < hdfs file path> < hdfs location2>

Check the free disk space



df command is used to check the free disk space.

hadoop fs -df -h /user/cloudera

Here -h stands for human readable. If we do not give this, then it will show in bytes.

Check the disk usage



du command is used to check the disk used.

hadoop fs -du -h /user/cloudera

Here -h stands for human readable. If we do not give this, then it will show in bytes.

To summarize the results use -s

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





We need to set the below property:

dfs.replication=5 (we can give any number here)

This below command will make more sense in cloudxlab:

hadoop fs -Ddfs.replication=5 -put loan_stats_3c.csv /user/crazycodingteam6223

Use fsck command to see metadata in hdfs



fsck stands for filesystem check

hdfs fsck /user/crazycodingtéam6223/loan_stats_3c.csv -files -blocks -locations

The above command will give the block information and replication information along with the ip address of datanodes where the block are kept.



Thank you!



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