File Management Tasks in HDFS

[cloudera@localhost ~]\$ hadoop fs -ls

1) to create directory [cloudera@localhost ~]\$ hadoop fs -mkdir /user/cloudera/vvit ----absolute path (or) [cloudera@localhost ~]\$ hadoop fs -mkdir vvit -----relative path [cloudera@localhost ~]\$ hadoop fs -ls Found 1 items -clouderacloudera drwxr-xr-x 0 2016-02-19 22:18vvit 2) to create sub directory [cloudera@localhost ~]\$ hadoop fs -mkdir /user/cloudera/vvit/cse 3) to view directories created _____ [cloudera@localhost ~]\$ hadoop fs -ls Found 1 items -clouderacloudera drwxr-xr-x 0 2016-02-19 22:23vvit recursively [cloudera@localhost ~]\$ hadoop fs-ls-R -complete hdfs filesystem - cloudera cloudera 0 2016-02-19 22:23 vvit drwxr-xr-x - cloudera cloudera 0 2016-02-19 22:29 vvit/cse drwxr-xr-x [cloudera@localhost ~]\$ hadoop fs -ls-R vvit/ // Specificdirand subdirectories and files drwxr-xr-x -clouderacloudera 02016-02-1922:29

vvit/cse [cloudera@localhost ~]\$ hadoop fs -ls -R vvit/cse/

Other file operations in hdfs

***note:we can't create files in hdfs

either a) we should move files present in lfs(local file system) to hdfs

or b) create files in lfs and then move them to hdfs.

In lfs we can create files using gedit, vi editors etc.

[cloudera@localhost ~]\$ gedit vvitprofile.txt

[cloudera@localhost~]\$ cat vvitprofile.txt

Welcome to VVIT

[cloudera@localhost ~]\$ gedit cseprofile

[cloudera@localhost~]\$cat cseprofile

Welcome to Department of Computer Science and Engineering

[cloudera@localhost ~]\$ ls

datasets Desktop Documents Downloads eclipse lib Music vvitprofile cseprofile PicturesPublic Templates Videos workspace

[cloudera@localhost ~]\$ hadoop fs -ls -R

Now we have to copy/move vvitprofile, cseprofile files to hdfs from lfs.

4) copyFromLocal or put:copy file from lfs to hdfs

[cloudera@localhost ~]\$ hadoop fs -copyFromLocal /home/cloudera/vvitprofile.txt /user/cloudera/vvit/ or

[cloudera@localhost ~]\$ hadoop fs -put /home/cloudera/vvitprofile.txt /user/cloudera/vvit/

[cloudera@localhost ~]\$ hadoop fs -ls -R

5) copyToLocal or get:copy file from hdfs tolfs

[cloudera@localhost ~]\$ rm vvitprofile.txt rm: remove regular file `myprofile'? y

[cloudera@localhost ~]\$ ls

[cloudera@localhost ~]\$ hadoop fs -get /user/cloudera/vvit/vvitprofile.txt /home/cloudera/ or [cloudera@localhost ~]\$ hadoop fs -copyToLocal /user/cloudera/vvit/vvitprofile.txt

/home/cloudera/ [cloudera@localhost ~]\$ ls

6) to remove directory / files

[cloudera@localhost ~]\$ hadoop fs -ls -R

directory

[cloudera@localhost ~]\$ hadoop fs -rmr /user/cloudera/vvit/cse

[cloudera@localhost \sim]\$ hadoop fs -ls -R

file

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[cloudera@localhost ~]\$ hadoop fs -rm /user/cloudera/vvit/vvitprofile.txt Moved: 'hdfs://localhost.localdomain:8020/user/cloudera/vvitprofile' to trash at: hdfs://localhost.localdomain:8020/user/cloudera/.Trash/Current

[cloudera@localhost ~]\$ hadoopfs -rm /user/cloudera/vvit/cseprofile.txt Moved: 'hdfs://localhost.localdomain:8020/user/cloudera/cseprofile' to trash at: hdfs://localhost.localdomain:8020/user/cloudera/.Trash/Current

[cloudera@localhost ~]\$ hadoop fs -ls -R

7) moveFromLocal

[cloudera@localhost ~]\$ hadoop fs -moveFromLocal /home/cloudera/vvitprofile.txt

/user/cloudera/vvit/ [cloudera@localhost ~]\$ ls

[cloudera@localhost ~]\$ hadoop fs -ls -R

8) to viewfiles

[cloudera@localhost ~]\$ hadoop fs -cat vvit/vvitprofile.txt

[cloudera@localhost ~]\$ hadoop fs -cat /user/cloudera/vvit/vvitprofile.txt

9) To change Permissions of files/directories

Hadoop fs -chmod 777 filename/dir name

[cloudera@localhost ~]\$ hadoop fs -ls -R

files

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[cloudera@localhost ~]\$ hadoop fs -chmod 666 vvit/vvitprofile.txt

directory

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[cloudera@localhost ~]\$ hadoop fs -chmod 777 /user/cloudera/vvit

[cloudera@localhost ~]\$ hadoop fs -ls -R

For more commands

help:hadoop fs -help

[cloudera@localhost ~]\$ hadoop fs -help