**REVATURE**

**ASSGINMENTS WEEK 3 DAY 4 AND 5**

1) Command for Uploading a file in HDFS

Hadoop fs –put

fs -put /tmp/practice/ml-1m/movies1.dat /tmp/data/movie

This command is used to upload a file from the local file system to HDFS. Multiple files can be uploaded using this command by separating the filenames with a space.

2) Command for Downloading a file in HDFS

Hadoop fs –get

hadoop fs -get /tmp/data/occupation/occupation.dat /tmp

This command is used to download a file from the local file system to HDFS. Multiple files can be downloaded using this command by separating the filenames with a space.

3) Command for Viewing the Contents of a file

Hadoop fs –cat

hadoop fs -cat /tmp/data/occupation/occupation.dat

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4) Command for Moving Files from Source to Destination

Hadoop fs –mv

hadoop fs -mv /tmp/data/movie/movies1.dat /tmp/data/movie/movies2.dat

5) Command for Removing a Directory or File in HDFS

Hadoop fs –rm

hadoop fs -rm /tmep/data/movie/movies2.dat

Note- To remove a directory, the directory should be empty before using the rm command.

6) Command for Copying files from local file system to HDFS

Hadoop fs –copyFromLocal

hadoop fs -copyFromLocal /tmp/practice/ml-1m/movies1.dat /tmp/data/movie

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7) Command to display the length of a file

Hadoop fs –du

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8) Command to view the content of a directory

hadoop fs –ls

9) Command to create a Directory in HDFS

hadoop fs –mkdir newDir

10) Command to display the first few lines of a file

hadoop fs –head

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1. Create a directory in HDFS at given path(s).

Usage: hadoop fs -mkdir <paths>

Example: hadoop fs -mkdir /user/kumar/dir1 /user/kumar/dir2

hadoop fs -mkdir /user/admin/dir /user/admin/dir2

2. List the contents of a directory.

Usage : hadoop fs -ls <args>

Example: hadoop fs -ls /user/kumar

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3. Upload and download a file in HDFS.

Upload: hadoop fs -put:

Copy single src file, or multiple src files from local file system to the Hadoop data file system

hadoop fs -put user1.dat users.dat /user/admin

hadoop fs -ls /user/admin

Text

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1Usage:

2hadoop fs -put <localsrc> ... <HDFS\_dest\_Path>

3Example:

4hadoop fs -put /home/saurzcode/Samplefile.txt /user/saurzcode/dir3/

hadoop fs -put /tmp/practice/ml-1m/occupation1.dat /user/admin

Download:

hadoop fs -get:

Copies/Downloads files to the local file system

1Usage:

2hadoop fs -get <hdfs\_src> <localdst>

3Example:

4hadoop fs -get /user/saurzcode/dir3/Samplefile.txt /home/

A screenshot of a computer

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4. See contents of a file

Same as unix cat command:

1Usage:

2hadoop fs -cat <path[filename]>

3Example:

4hadoop fs -cat /user/saurzcode/dir1/abc.txt

hadoop fs -cat /user/admin/occupation1.dat

Text

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5. Copy a file from source to destination

This command allows multiple sources as well in which case the destination must be a directory.

1Usage:

2hadoop fs -cp <source> <dest>

3Example:

4hadoop fs -cp /user/saurzcode/dir1/abc.txt /user/saurzcode/dir2

hadoop fs -cp /user/admin/occupation1.dat /tmp/data/occupation/occupation2.dat

hadoop fs -ls /tmp/data/occupation

Text

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6. Copy a file from/To Local file system to HDFS

copyFromLocal

1Usage:

2hadoop fs -copyFromLocal <localsrc> URI

3Example:

4hadoop fs -copyFromLocal /home/saurzcode/abc.txt /user/saurzcode/abc.txt

Similar to put command, except that the source is restricted to a local file reference.

hadoop fs -copyFromLocal /tmp/practice/ml-1m/movies1.dat

hadoop fs -ls

Text

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copyToLocal

1Usage:

2hadoop fs -copyToLocal [-ignorecrc] [-crc] URI <localdst>

hadoop fs -copyToLocal /user/root/movies1.dat

Text

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Similar to get command, except that the destination is restricted to a local file reference.

7. Move file from source to destination.

Note:- Moving files across filesystem is not permitted.

1Usage :

2hadoop fs -mv <src> <dest>

3Example:

4hadoop fs -mv /user/saurzcode/dir1/abc.txt /user/saurzcode/dir2

hadoop fs -mv /user/root/movies1.dat /user/admin

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8. Remove a file or directory in HDFS.

Remove files specified as argument. Deletes directory only when it is empty

1 Usage :

2hadoop fs -rm <arg>

3Example:

4hadoop fs -rm /user/saurzcode/dir1/abc.txt

hadoop fs -rm /user/admin/movies1.dat

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Recursive version of delete.

1Usage :

2hadoop fs -rmr <arg>

3Example:

4hadoop fs -rmr /user/saurzcode/

hadoop fs -rmr /user/admin/dir

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9. Display last few lines of a file.

Similar to tail command in Unix.

1Usage :

2hadoop fs -tail <path[filename]>

3Example:

4hadoop fs -tail /user/saurzcode/dir1/abc.txt

hadoop fs -tail /user/admin/user1.dat

Text

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10. Display the aggregate length of a file.

1Usage :

2hadoop fs -du <path>

3Example:

4hadoop fs -du /user/saurzcode/dir1/abc.txt

Hadoop fs – du /user/admin/user1.dat

Text

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Please comment which of these commands you found most useful while dealing with Hadoop /HDFS.

Most useful commands are put, get, du, cp,mv,rm tu copy delete and rename files between filesystems, and know the file imformation