

EX NO:2	HADOOP IMPLEMENTATION OF FILE MANAGEMENT TASKS SUCH AS ADDING FILES AND DIRECTORIES, RETREIVING FILES AND DELETING FILES.
DATE:	

AIM:

To implement the following file management tasks in Hadoop:

1. Adding files and directories
2. Retrieving files
3. Deleting Files

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

Usage:

hadoop fs -mkdir <paths> Example:

hadoop fs -mkdir /user/saurzcode/dir1 /user/saurzcode/dir2

2.List the contents of adirectory.

Usage :

hadoop fs -ls <args>

Example:

hadoop fs -ls /user/saurzcode

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

Usage:

hadoop fs -put <localsrc> ... <HDFS_dest_Path> Example:

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

Download:

hadoop fs -get:

Copies/Downloads files to the local file system

Usage:

hadoop fs -get <hdfs_src> <localdst> Example:

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

4.See contents of a file Same

as unix cat command: Usage:

hadoop fs -cat <path[filename]>

Example:

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

1. Copy a file from source to destination

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

Usage:

```
hadoop fs -cp <source> <dest>
```

Example:

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

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

copyFromLocal

Usage:

```
hadoop fs -copyFromLocal <localsrc>
```

URI Example:

```
hadoop 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.

copyToLocal

Usage:

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

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

3. Move file from source to destination.

Note:- Moving files across filesystem is not permitted.

Usage :

```
hadoop fs -mv <src> <dest> Example:
```

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

4. Remove a file or directory in HDFS.

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

Usage :

hadoop fs -rm <arg> Example:

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

Recursive version of delete.

Usage :

hadoop fs -rmr <arg> Example:

hadoop fs -rmr /user/saurzcode/

5. Display last few lines of a file.

Similar to tail command in Unix.

Usage :

hadoop fs -tail <path[filename]> Example:

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

6. Display the aggregate length of a file.

Usage :

hadoop fs -du <path> Example:

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

RESULT:

Thus, the Hadoop Implementation of file management tasks, such as Adding files and directories, retrieving files and Deleting files is executed successfully.