#### **PRACTICAL-03**

Aim: Implement the following file management tasks in Hadoop:-

- > Adding files and directories
- > Retrieving files from HDFS to local file system
- > Deleting files from HDFS

1)To give commands in HDFS download the platform putty it gets directly connected with the HDFS dashboard and from where you can give commands to add & delete the files

Download Links-https://www.chiark.greenend.org.uk/~sgtatham/putty/latest.html

After downloading open the file and give following details

Host name-maria\_dev@1080

Port- 2222

Connection type-SSH

Load server- HDP & Save

After saving you will get to see the command prompt where you have to enter the password which you have been set for your browser dashboard

Password-maria dev

2)To go in the Hadoop system give the command-

### \*hadoop fs -ls

The command hadoop fs -ls is used to list files and directories stored in Hadoop Distributed File System (HDFS) or other supported file systems (like local FS, S3, etc., depending on configuration). Shows the files and directories at the given path.

### Displays metadata:

- File permissions
- Replication factor
- Owner & group
- File size (in bytes)
- Last modification date & time
- Path

### \*Hadoop fs -mkdir

The hadoop fs -mkdir command is used to create new directories in Hadoop Distributed File System (HDFS) (or any other file system supported by Hadoop, like S3, local FS, etc., depending on your configuration)



To create a new directory in HDFS.

Suppose we will give the command for creating a directory for a movielens dataset Command- hadoop fs -mkdir ml-100k

#### \*hadoop fs -ls

The hadoop fs -Is command is used to list files and directories in Hadoop Distributed File System (HDFS) or

in any other file system supported by Hadoop (like local FS, S3, etc., depending on configuration)

### Purpose

- To view the contents of a directory in HDFS.
- To see metadata of files/directories such as:
  - Permissions (read, write, execute)
  - Replication factor (for files in HDFS)
  - Owner and Group
  - o File size (in bytes)
  - Modification date & time
  - File/Directory name (path)

#### \*Is

In **Hadoop**, the Is command is used to **list files and directories** in the Hadoop Distributed File System (**HDFS**)—similar to the Is command in Linux, but it operates on HDFS paths instead of local file system paths. **Purpose:** 

- To display the list of files/directories in a given HDFS directory.
- To view metadata like **permissions**, **owner**, **group**, **file size**, **replication factor**, **modification date**, and path.

### \*pwd

# Purpose of pwd in Hadoop

- pwd stands for Print Working Directory.
- It shows the current working directory in HDFS where you are operating.
- Useful to confirm your present location before running file operations like ls, put, or get.

### \*Is

Command to display the directory

## \*wget http://media.sundog-soft.com/hadoop/ml-100k/u.data

The above command is used to copy the data from web server to the Hadoop file system

# \*Is

Give the command Is to see whether the data is imported in hdfs Once it is imported you will see the name as u.data

#### \*Is -la

- Purpose of Is -la (Linux vs Hadoop)
  - In **Linux**, Is -la lists **all files including hidden ones** (those starting with .), with detailed information (long format).

### \*hadoop fs -copyFromLocal u.data ml-100k/u.data

The file will get copied from local file system to the Hadoop named as u.data

### \*hadoop fs -ls

The hadoop fs -ls command is used to list files and directories in Hadoop Distributed File System (HDFS) or in any other file system supported by Hadoop (like local FS, S3, etc., depending on configuration)

### \*hadoop fs -rm ml-100k/u.data

- Purpose
  - To remove (delete) files from HDFS.
  - Works similar to Linux rm, but operates on HDFS.

## \*hadoop fs -rmdir ml-100k

The hadoop fs -rmdir command is used to remove (delete) empty directories from HDFS.

- Purpose
  - To delete **empty directories** in Hadoop Distributed File System (HDFS).
  - It is similar to the Linux rmdir command.
  - Unlike -rm -r, it cannot delete directories that contain files or subdirectories.

### \*hadoop fs -ls

The commands checks where the directory is removed from the hadoop

### \*Hadoop fs

By using this command we may see the activities that we have performed in our Hadoop file system

```
X
🧬 maria_dev@sandbox-hdp:~
[maria dev@sandbox-hdp ~]$ ls
[maria dev@sandbox-hdp ~]$ pwd
/home/maria dev
[maria_dev@sandbox-hdp ~]$ wget http://media.sundog-soft.com/hadoop/ml-100k/u.data
 -2025-08-17 11:15:44-- http://media.sundog-soft.com/hadoop/ml-100k/u.data
Resolving media.sundog-soft.com (media.sundog-soft.com)... 52.217.18.252, 52.217.205.81
Connecting to media.sundog-soft.com (media.sundog-soft.com)|52.217.18.252|:80... connec
HTTP request sent, awaiting response... 200 OK
Length: 2079229 (2.0M) [application/octet-stream]
Saving to: 'u.data'
100%[=======] 2,079,229
                                                                                        342KB/s
                                                                                                      in 10s
2025-08-17 11:16:06 (197 KB/s) - 'u.data' saved [2079229/2079229]
[maria dev@sandbox-hdp ~]$ ls
u.data vanshika
[maria dev@sandbox-hdp ~]$ ls -la
drwx----- 1 maria_dev maria_dev
drwxr-xr-x 1 root root
-rw----- 1 maria_dev maria_dev
                                                   96 Aug 17 11:04 .bash_history
-rw-r---- 1 maria_dev maria_dev 193 Sep 6 2017 .bash_logout
-rw-r---- 1 maria_dev maria_dev 619 Jun 18 2018 .bashrc
-rw-rw-r--- 1 maria_dev maria_dev 2079229 Nov 11 2016 u.data
drwxrwxr-x 2 maria_dev maria_dev 4096 Aug 17 10:55 vanshika
[maria_dev@sandbox-hdp.~1$
```