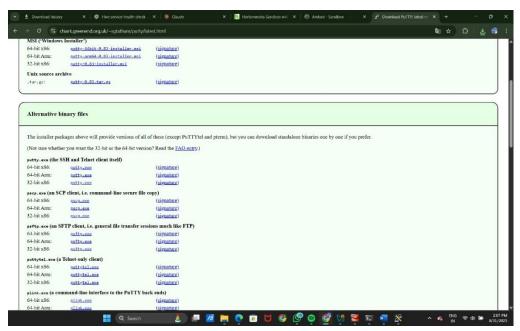
### **PRACTICAL-03**

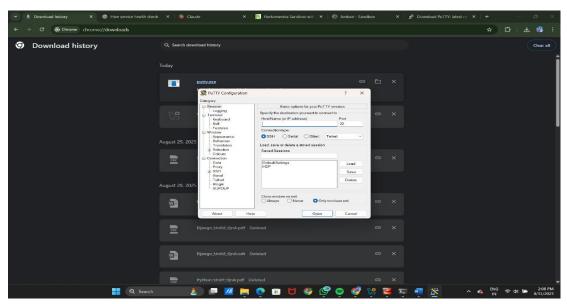
AIM:- Implement the following file management tasks in Hadoop:-

- > 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- 127.0.0.1

Port- 2222

Connection type- SSH Load server- HDP & Save

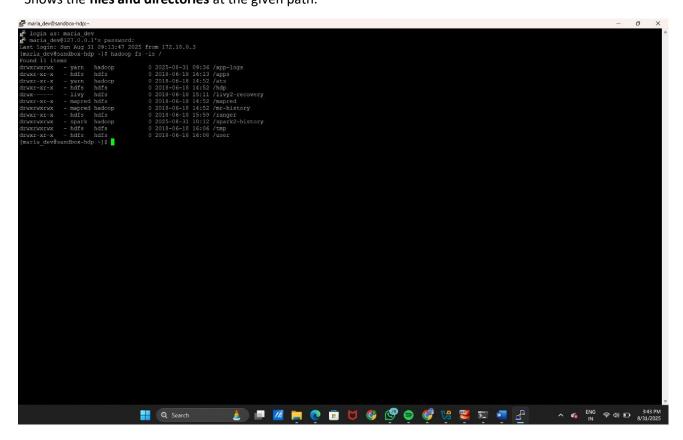
After saving you will get to see the command prompt where you have to enter the password which you have been set for your browser dashboard

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

```
[maria_dev@sandbox-hdp ~]$ hadoop fs -mkdir /ml-100k

[maria_dev@sandbox-hdp ~]$ hadoop fs -ls /
```

#### \*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)

# Purpose

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

```
maria dev@sandbox-hdp ~]$ hadoop fs -mkdir /ml-100k
maria dev@sandbox-hdp ~]$ hadoop fs -ls /
                         hdfs
               hdfs
                                          0 2018-06-18 16:13 /apps
                                          0 2018-06-18 14:52 /ats
drwxr-xr-x
                         hadoop
                                          0 2018-06-18 14:52 /hdp
drwxr-xr-x
               hdfs
                         hdfs
                         hdfs
                                          0 2018-06-18 14:52
drwxr-xr-x
               mapred
                         hdfs
                                                             /mapred
               maria dev
                                            2025-09-01 16:40
drwxr-xr-x
                         hdfs
                                                             /ml-100k
                                            2018-06-18
                                                             /mr-history
               mapred
                         hadoop
drwxrwxrwx
lrwxr-xr-x
                                                       16:41 /spark2-history
```

#### \*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

```
[maria_dev@sandbox-hdp ~]$ pwd
/home/maria_dev
[maria_dev@sandbox-hdp ~]$
```

# **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

```
[maria_dev@sandbox-hdp ~]$ ls u.data u.data.1 u.item
```

#### \*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

```
Taxing darkSeanDox why will hashoon for ecopyrendiceal w.data /ml-100k/w.data

trage: hadoop for [generic options]

[-spendforFile closelines: ... data)

[-checkum care; ...]

[-checkum care; ...]
```

#### \*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

# 

- 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.

# 

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

```
[maria_dev@sandbox-hdp ~]$ hadoop fs -rmdir /ml-100k
[maria_dev@sandbox-hdp ~]$
```

```
[maria dev@sandbox-hdp ~]$ hadoop fs -ls /
Found 11 items
drwxrwxrwx - yarn hadoop
drwxr-xr-x - hdfs hdfs
                                    0 2025-08-31 09:36 /app-logs
                                   0 2018-06-18 16:13 /apps
drwxr-xr-x - yarn hadoop
                                0 2018-06-18 14:52 /ats
drwxr-xr-x - hdfs hdfs
                                   0 2018-06-18 14:52 /hdp
drwx---- - livy hdfs
                                   0 2018-06-18 15:11 /livy2-recovery
drwxr-xr-x - mapred hdfs
                                   0 2018-06-18 14:52 /mapred
drwxrwxrwx - mapred hadoop 0 2018-06-18 14:52 /mr-history
                                   0 2018-06-18 15:59 /ranger
drwxr-xr-x - hdfs hdfs
drwxrwxrwx - spark hadoop
                              0 2025-09-01 16:53 /spark2-history
0 2018-06-18 16:06 /tmp
drwxrwxrwx - hdfs hdfs
drwxr-xr-x - hdfs
                    hdfs
                                    0 2018-06-18 16:08 /user
[maria dev@sandbox-hdp ~]$
```

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

```
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```