**Experiment No: 4**

**AIM: To Study HDFS Commands.**

**Start command from either “Hadoop fs” OR**

**“hdfs dfs”**

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Sr. No** | | **Command Name** | | **Usage** | | **Example** | |
| 1. | | mkdir | | HDFS command to create a directory in HDFS under root /  Syntax : hdfs dfs -mkdir /directory name | | hdfs dfs -mkdir /input | |
| 2. | | ls | | HDFS Command to list the directory or files in a directory  Syntax : hdfs dfs -ls /directory name | | Hdsf dfs -ls /input | |
| 3 | | touchz | | HDFS Command to create a file in HDFS with file size 0 bytes.   * **Syntax: hdfs dfs–touchz/directory/ filename** | | Hdfs dfs–touchz  /input/sample | |
| 4 | | put | | * hdfs dfs -put - hdfs:/ <destination file name> * Reads the input from stdin. | | hdfs dfs -put - hdfs:/BDA\_A3batch/a.txt  Type text from the command prompt area  Then press ctrl Z to end of file. | |
| 5 | | cat | | HDFS Command that reads a file on HDFS and prints the content of that file to the standard output.  **Syntax: hdfsdfs –cat**  **/path/to/file\_in\_hdfs** | | hdfs dfs –cat  /input/test | |
| 6 | | copyFromLoc al | | HDFS Command to copy the file from a Local file system to HDFS.  **Syntax: hdfs dfs -copyFromLocal**  **<localsrc> <hdfs destination>** | | hdfs dfs–copyFromLocal  /home/local/test  /input | |
| 7 | | copyToLocal | | HDFS Command to copy the file from HDFS to Local File System.  **Syntax: hdfs dfs -copyToLocal <hdfs source> <localdst>** | | hdfs dfs –copyToLocal  /input/test  /home/local | |
| 8 | | put | | HDFS Command to copy single source or multiple sources from local file system to | | hdfs dfs–put  /home/local/test /user | |
|  | |  | | the destination file system.  **Syntax: hdfs dfs -put <localsrc>**  **<destination>** | |  | |
| 9 | | get | | HDFS Command to copy files from hdfs to the local file system.  **Syntax: hdfs dfs -get <src> <localdst>** | | hdfs dfs –get /user/test  /home/local | |
| 10 | | count | | HDFS Command to count the number of directories, files, and bytes under the paths that match the specified file pattern.  **Syntax: hdfs dfs -count <path>** | | hdfs dfs –count /user | |
| 11 | | rm | | HDFS Command to remove the file from HDFS.  **Syntax: hdfs dfs –rm <path>** | | hdfs dfs –rm  /input/test | |
| 12 | | cp | | HDFS Command to copy files from source to destination. This command allows multiple sources as well, in which case the destination must be a directory.  **Syntax: hdfs dfs -cp <src> <dest>** | | 1. hdfs dfs – cp /user/hadoop/file1   /user/hadoop/file2   1. hdfs dfs -cp   /user/hadoop/file1  /user/hadoop/file2  /user/hadoop/dir | |
| 13 | | expunge | | HDFS Command that makes the trash empty. | | hdfs dfs-expunge | |
| 14 | | usage | | HDFS Command that returns the help for an individual command.  **Syntax: hdfs dfs -usage <command>** | | hdfs dfs -usage mkdir | |
| 15 | | fsck | | HDFS Command to check the health of the Hadoop file system | |  | |

|  |  |  |  |
| --- | --- | --- | --- |
| 14 | ls | HDFS Command to display the list of Files and Directories in HDFS. | hdfs dfs –ls / |
| 15 | mkdir | HDFS Command to create the directory in HDFS.  **Syntax: hdfs dfs –mkdir**  **/directory\_name** | hdfs dfs –mkdir  /new\_bda\_dir  OR  hadoop -mkdir /input |