**HDFS Commands**

This document will help in executing and understanding basic Hadoop Command, in order to interact with HDFS (Hadoop Distributed File System).

**Command to get version of Hadoop**:

* **Command**: hadoop version

**Command to Display list of files and** **directories in HDFS file path:**

* **Command**: hadoop fs –ls /

**Command to create a directory:**

* **Command** (non recurssive): hadoop fs –mkdir </directory\_name/filename>
* **Command** (recurssive): hadoop fs –mkdir –p </directory\_name/filename>

**Command to display the summary of file length:**

* **Command**: hadoop fs –du [-s] [-h] <File\_Path>

The **-s** option will result in an aggregate summary of file lengths being displayed, rather than the individual files.

The **-h** option will format file sizes in a "human-readable" fashion (e.g 64.0m instead of 67108864)

**Command to create a file in HDFS with file size 0 bytes:**

* **Command**: hadoop fs –touchz </directory\_name/filename>

**NOTE**: You can check the file size using the **hadoop fs –dus </directory\_name/file\_name>** command

**Command to copy source path to stdout:**

* **Command**: hadoop fs –cat </directory\_name/filename>

**NOTE**: Exit code returns 0 on success and -1 on failure.

**Command to take a source file and output the file in text format: (Same as Cat command)**

* **Command**: hadoop fs –text </directory\_name/filename>

**Command to copy a file from local file system into HDFS:**

* **Command**: hadoop fs –copyFromLocal </LocalDirectory/filename> </HDFS\_Directory/>

**NOTE**: Source is restricted to Local and the –f option will overwrite the destination if it already exists.

**Command to copy single source, or multiple srcs from local file system to destination file system:**

* **Command**: hadoop fs –put </SourceFileNamewithDirectory> </HDFS \_Directory>

**NOTE**: copyFromLocal is same as put command, except that the source is restricted to a local file reference.

**Command to copy file from HDFS to Local File system:**

* **Command:** hadoop fs –copyToLocal </HDFS\_directory/file\_name> </Local\_directory>

**Command to copy files from HDFS to Local File system:**

* **Command:** hadoop fs –get </HDFS\_directory/file\_name> </Local\_directory>

**NOTE**: copyToLocal is similar to get command, except that the destination is restricted to local file reference.

**Command to count number of directories , files and bytes under the paths that match the specific pattern.**

* **Command:** hadoop fs –count </HDFS\_path>

**NOTE**: - The output columns with the count are : DIR\_COUNT, FILE\_COUNT , CONTENT SIZE FILE NAME

- The output columns with –count –q are: QUOTA, REMAINING\_QUOTA, SPACE\_QUOTA, REMAINING SPACE QUOTA, DIR\_COUNT, FILE\_COUNT, CONTENT\_SIZE, FILE\_NAME

**Command to remove the file from HDFS:**

* **Command:** hadoop fs –rm </HDFS\_directory/filename>

**NOTE**: Return 0 on success and -1 on error.

**Command to remove directory from HDFS:**

* **Command:** hadoop fs –rmr </HDFS\_directory>

**NOTE**: Return 0 on success and -1 on error.