**HDFS Dev & Admin Commands**

**Open a terminal window to the current working directory.**

cd /home/hduser

1. **Print the Hadoop version**

hadoop version

1. **Report the amount of space used and # available on currently mounted filesystem**

hadoop fs -df hdfs:/

1. **Count the number of directories, files and bytes under # the paths that match the specified file pattern #**

hadoop fs -count hdfs:/

1. **Count the number of directories, files and bytes under # the paths that match the specified file pattern #**

hadoop fs -mkdir /user/hduser/hadoop

hadoop fs -mkdir -p /user/hduser/hadoop/dir1/dir2

1. **Create a sample file in linux and place it into hadoop directory**

echo "sampledata" > sample.txt

hadoop fs -put ~/sample.txt /user/hduser/hadoop

hadoop fs -copyFromLocal -f ~/sample.txt /user/hduser/hadoop

1. **List the contents of this new directory in HDFS.**

hadoop fs -ls /user/hduser/hadoop

1. **Copy a directory from local to hadoop.**

hadoop fs -put /home/hduser/mrdata /user/hduser/hadoop

1. **Remove a HDFS file**

hadoop fs -copyFromLocal test1.txt hadoop/ hadoop fs -rm hadoop/test1.txt

1. **Remove the entire directory and all of its contents in hadoop.**

hadoop fs -mkdir hadoop/test

hadoop fs -put ~/sample.txt hadoop/test hadoop fs -rm -r hadoop/test

1. **Copy the file from hadoop to local.**

hadoop fs -copyToLocal /user/hduser/test.txt /tmp

1. **Remove all files from hadoop directory ending with .txt**

hadoop fs -rm hadoop/\*.txt

1. **cp is used to copy files between directories present in HDFS**

hadoop fs -cp /user/hduser/test.txt /user/hduser/test2.txt

1. **Get command to copy the file from hadoop to local.**

hadoop fs -get test2.txt /home/hduser/test3.txt

1. **Display last few lines in hadoop**

hadoop fs -put filename hadoop fs -tail filename

1. **HDFS file permission setup, default is 666**

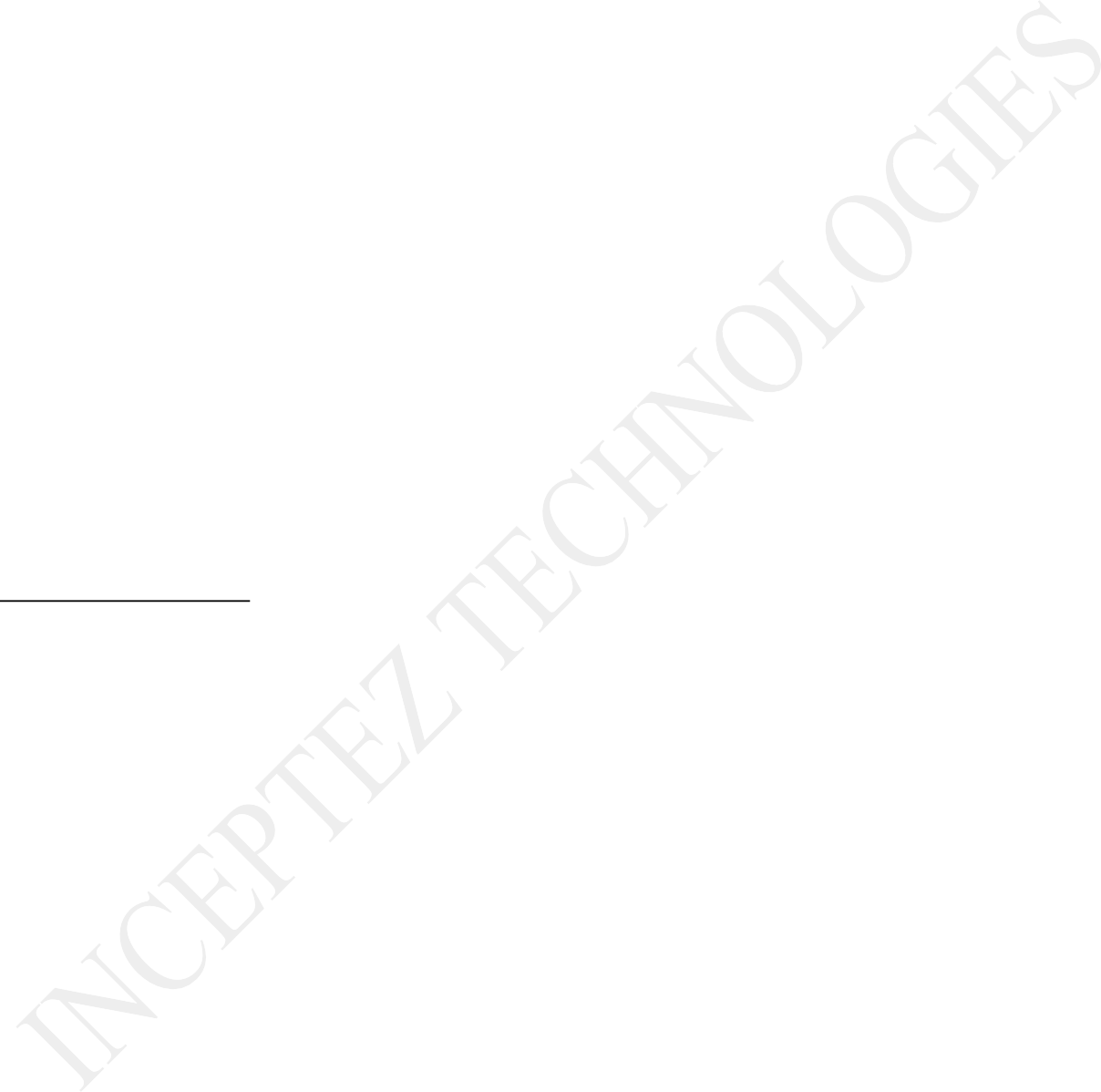
hadoop fs -touchz hadoop/test4.txt hadoop fs -ls hadoop/test4.txt

hadoop fs -chmod 600 hadoop/test4.txt

1. **View the content of copied file.**

hadoop fs -cat /user/hduser/testing/test.txt

1. **Move file from local to hdfs**



**hadoop fs -moveFromLocal ~/test.txt /user/hduser/test.txt**

**19. Append file from local to hdfs.**

**cd ~**

**echo somedata > test1.txt**

**hadoop fs -appendToFile test1.txt /user/hduser/testing/test.txt**

**20. Create new file with zero content.**

**hadoop fs -touchz text.txt**

**ADMIN COMMANDS**

1. **See how much space this directory occupies in HDFS.**

**hadoop fs -du -s -h hadoop**

1. **Run a DFS filesystem checking utility**

**hadoop fsck - /**

1. **Run a cluster balancing utility**

**hadoop balancer**

**20. Default names of owner and group are hduser,**

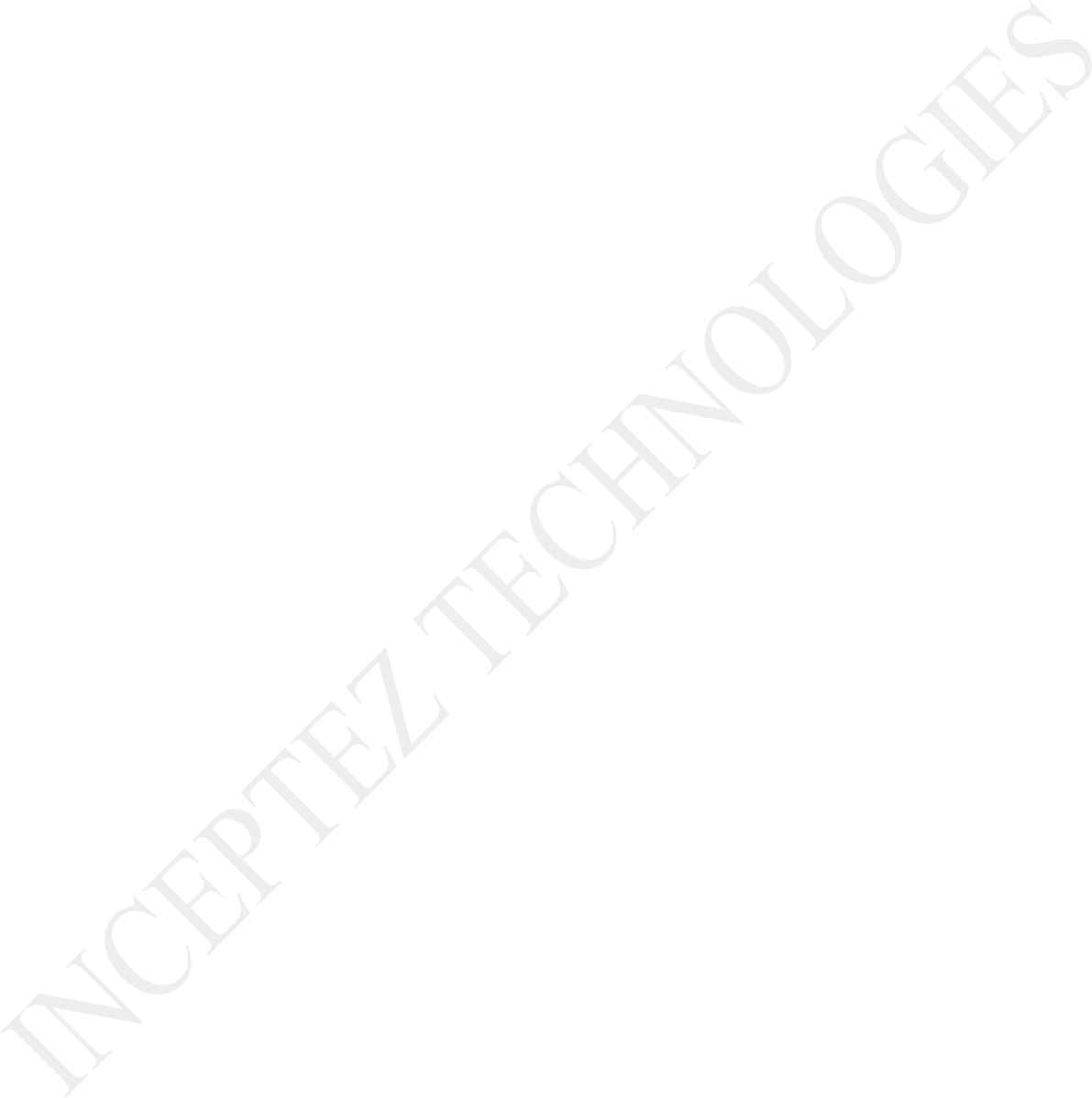
hadoop fs -ls test2.txt

hadoop fs -chown inceptez:inceptez test2.txt

**21. Change the group of a file in hadoop**

hadoop fs -ls test2.txt

hadoop fs -chgrp hadoop test2.txt



**22. Changing the replication factor of a file**

**hadoop fs -setrep -w 2 test2.txt**

**22. Checking the replication statistics of a file**

**hadoop fs -stat %r test2.txt**

**23. Check whether namenode in safemode and leave safe mode**

**hdfs dfsadmin -safemode get**

**hdfs dfsadmin -safemode leave**