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# HDFS Dev & Admin Commands

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

```
cd /home/hduser
```

**1. Print the Hadoop version**

```
hadoop version
```

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

```
hadoop fs -df hdfs:/
```

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

```
hadoop fs -count hdfs:/
```

**4. 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
```

**5. 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
```

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

```
hadoop fs -ls /user/hduser/hadoop
```

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

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

**8. Remove a HDFS file**

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

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

**10. 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
```

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

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

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

```
hadoop fs -rm hadoop/*.txt
```

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

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

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

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

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

```
hadoop fs -put filename

hadoop fs -tail filename
```

**16. 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
```

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

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

**18. 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**

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

```
hadoop fs -du -s -h hadoop
```

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

```
hadoop fsck - /
```

**19. 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