

File Handling Commands Used in Hadoop

Assignment No : 2

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Aim : File Management using Hadoop

1. LS

The Hadoop fs shell command **ls** displays a list of the contents of a directory specified in the path provided by the user. It shows the name, permissions, owner, size, and modification date for each file or directories in the specified directory.

```
dataflair@admin1-All-Series: ~  
File Edit View Search Terminal Help  
dataflair@admin1-All-Series:~$ hadoop fs -ls /  
Found 2 items  
drwxr-xr-x - dataflair supergroup 0 2020-01-29 10:38  
drwxr-xr-x - dataflair supergroup 0 2020-01-29 10:38
```

2. Mkdir

This command creates the directory in HDFS if it does not already exist

```
dataflair@admin1-All-Series: ~  
File Edit View Search Terminal Help  
dataflair@admin1-All-Series:~$ hadoop fs -mkdir /newDataFlair  
dataflair@admin1-All-Series:~$ hadoop fs -ls /  
Found 3 items  
drwxr-xr-x - dataflair supergroup 0 2020-01-29 10:38  
drwxr-xr-x - dataflair supergroup 0 2020-01-29 10:39  
drwxr-xr-x - dataflair supergroup 0 2020-01-29 10:41
```

3. Put

The Hadoop fs shell command **put** is similar to the **copyFromLocal**, which copies files or directory from the local filesystem to the destination in the Hadoop filesystem.

```
dataflair@admin1-All-Series: ~  
File Edit View Search Terminal Help  
dataflair@admin1-All-Series:~$ hadoop fs -put ~/localfile1 /  
dataflair@admin1-All-Series:~$
```

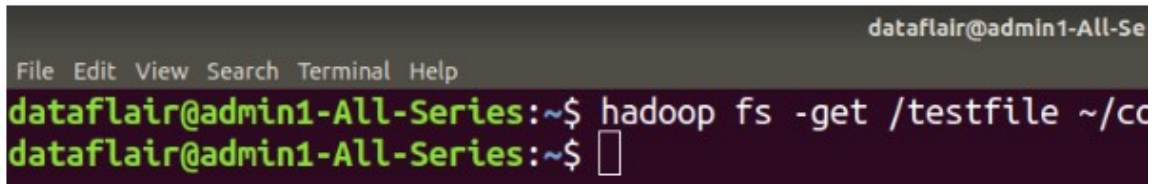
4. CopyFromLocal

This command copies the file from the local file system to HDFS

```
dataflair@admin1-All-Series: ~  
File Edit View Search Terminal Help  
dataflair@admin1-All-Series:~$ hadoop fs -copyFromLocal ~/test1 /newDataFlair  
dataflair@admin1-All-Series:~$
```

5. Get

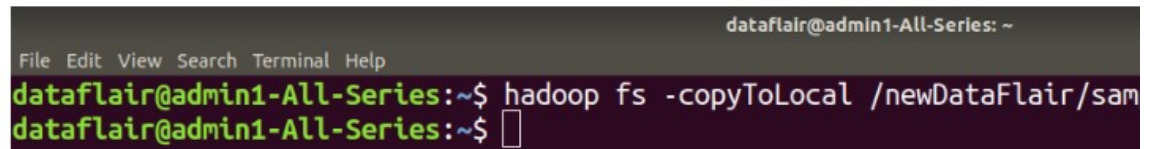
The Hadoop fs shell command **get** copies the file or directory from the Hadoop file system to the local file system.



```
dataflair@admin1-All-Series: ~  
File Edit View Search Terminal Help  
dataflair@admin1-All-Series:~$ hadoop fs -get /testfile ~/co  
dataflair@admin1-All-Series:~$
```

6. CopyToLocal

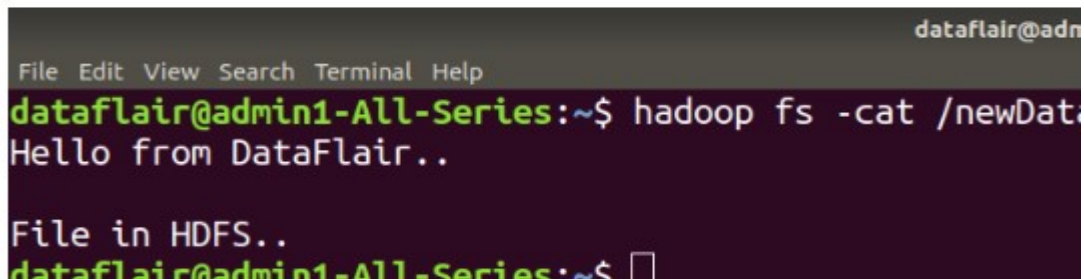
copyToLocal command copies the file from HDFS to the local file system



```
dataflair@admin1-All-Series: ~  
File Edit View Search Terminal Help  
dataflair@admin1-All-Series:~$ hadoop fs -copyToLocal /newDataFlair/sam  
dataflair@admin1-All-Series:~$
```

7. Cat

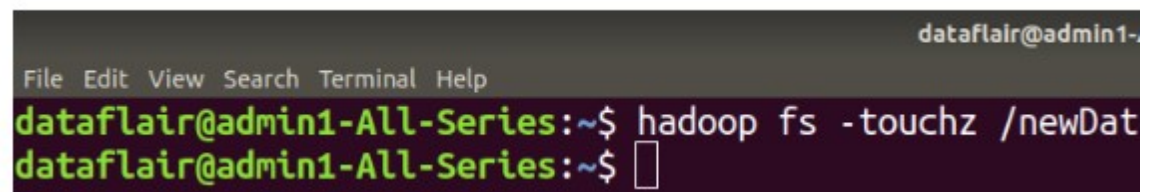
The **cat** command reads the file in HDFS and displays the content of the file on console or stdout.



```
dataflair@admin1-All-Series: ~  
File Edit View Search Terminal Help  
dataflair@admin1-All-Series:~$ hadoop fs -cat /newData  
Hello from DataFlair..  
  
File in HDFS..  
dataflair@admin1-All-Series:~$
```

8. Touchz

touchz command creates a file in HDFS with file size equals to 0 byte. The directory is the name of the directory where we will create the file, and filename is the name of the new file we are going to create.



```
dataflair@admin1-All-Series: ~  
File Edit View Search Terminal Help  
dataflair@admin1-All-Series:~$ hadoop fs -touchz /newDat  
dataflair@admin1-All-Series:~$
```

9. Chmod

The Hadoop fs shell command **chmod** changes the permissions of a file. The **-R** option recursively changes files permissions through the directory structure.

The user must be the owner of the file or superuser

```
dataflair@admin1-All-Series: ~  
File Edit View Search Terminal Help  
dataflair@admin1-All-Series:~$ hadoop fs -ls /  
Found 4 items  
drwxr-xr-x - dataflair newgroup 0 2020-01-29 14:16  
drwxr-xr-x - dataflair supergroup 0 2020-01-29 14:42  
drwxr-xr-x - dataflair supergroup 0 2020-01-29 11:30  
-rw-r--r-- 1 dataflair supergroup 0 2020-01-29 17:17  
dataflair@admin1-All-Series:~$ hadoop fs -chmod -r /testfile  
dataflair@admin1-All-Series:~$ hadoop fs -ls /  
Found 4 items  
drwxr-xr-x - dataflair newgroup 0 2020-01-29 14:16  
drwxr-xr-x - dataflair supergroup 0 2020-01-29 14:42
```

10. appendToFile

The HDFS fs shell command **appendToFile** appends the content of single or multiple local files specified in the localsrc to the provided destination file on the HDFS.

The destination file gets created if it does not exist earlier.

```
dataflair@admin1-All-Series: ~  
File Edit View Search Terminal Help  
dataflair@admin1-All-Series:~$ hadoop fs -appendToFile localfile1 localfile2 /  
dataflair@admin1-All-Series:~$
```

11. moveFromLocal

The Hadoop fs shell command **moveFromLocal** moves the file or directory from the local filesystem to the destination in Hadoop HDFS.

```
dataflair@admin1-All-Series: ~  
File Edit View Search Terminal Help  
dataflair@admin1-All-Series:~$ ls  
copyfromhadoop Documents example.txt hdata MergeFile Pu  
copysample Downloads hadoop localfile1 Music sn  
Desktop examples.desktop hadoop-3.1.2 localfile2 Pictures Te  
dataflair@admin1-All-Series:~$ hadoop fs -moveFromLocal ~/test1 /  
dataflair@admin1-All-Series:~$ ls  
copyfromhadoop Documents example.txt hdata MergeFile Pu  
copysample Downloads hadoop localfile1 Music sn
```

12. Tail

The Hadoop fs shell **tail** command shows the last 1KB of a file on console or stdout.

```
dataflair@admin1-All-Series: ~  
File Edit View Search Terminal Help  
dataflair@admin1-All-Series:~$ hadoop fs -tail /dataflair/test  
l experience to learners through our expert instructors. We will strive to continuously  
gs ensuring that we can cover all technologies and courses are up-to-date with the lates  
  
Data Flair  
Walking with the crowd is good. But performing outstanding in the crowd is what makes yo  
s what DataFlair aims to make its students.  
  
We continuously work hard to bring you the best trainers to enable your smooth learning  
your convenience. This is the reason why most of the DataFlair students get placed in t  
just after the training.  
  
DataFlair team comprises of trainers who are experts in their relevant technologies and  
many rounds of interviews, content team that continuously works hard to provide quality  
ers, Marketing team that work hand in hand with other teams to make the content reaches
```