

## Assignment No : 2

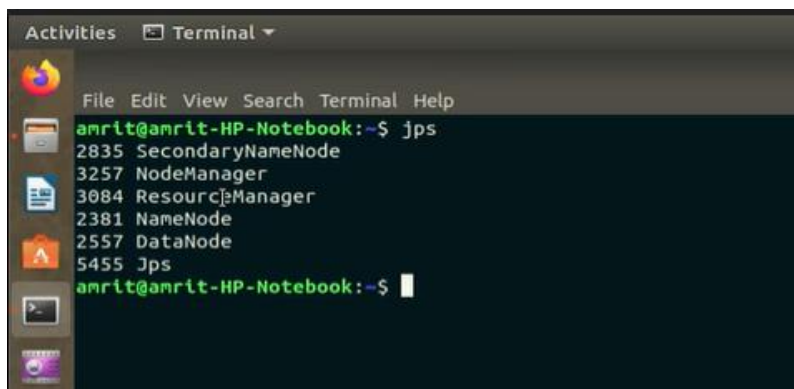
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 Class : LY – CSE – IS - 3

### Aim : File Management using Hadoop

#### 1. Jsp

The full form of JPS is Java Virtual Machine Process Status.

JPS is a type of command that is implemented to check out all the Hadoop daemons like DataNode, NodeManager, NameNode, and ResourceManager that are currently running on the machine



```

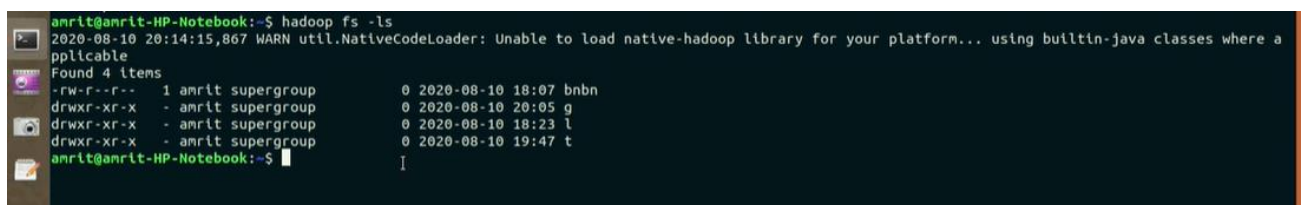
amrit@amrit-HP-Notebook:~$ jps
2835 SecondaryNameNode
3257 NodeManager
3084 ResourceManager
2381 NameNode
2557 DataNode
5455 Jps
amrit@amrit-HP-Notebook:~$
  
```

#### 2. -ls List Directory

This command is used to list all the directory and files present in the cluster or specified by path.

It also specifies the permission given to each directory and file.

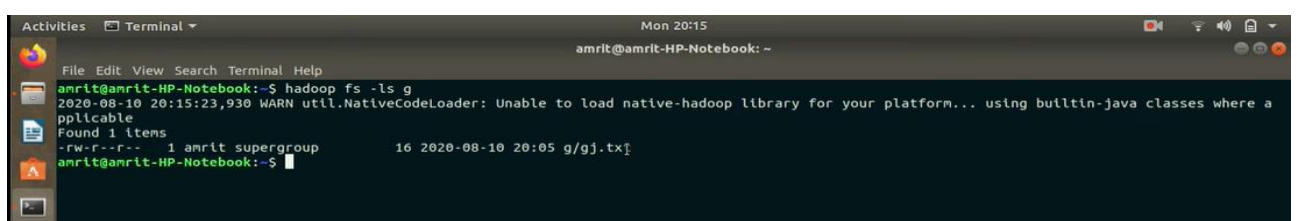
Lists the contents of the directory by showing the names, permissions, owner, size and modification date for each entry.



```

amrit@amrit-HP-Notebook:~$ hadoop fs -ls
2020-08-10 20:14:15,867 WARN util.NativeCodeLoader: Unable to load native-hadoop library for your platform... using builtin-java classes where applicable
Found 4 items
-rw-r--r-- 1 amrit supergroup 0 2020-08-10 18:07 bbn
drwxr-xr-x - amrit supergroup 0 2020-08-10 20:05 g
drwxr-xr-x - amrit supergroup 0 2020-08-10 18:23 l
drwxr-xr-x - amrit supergroup 0 2020-08-10 19:47 t
amrit@amrit-HP-Notebook:~$
  
```

List the content from g folder



```

amrit@amrit-HP-Notebook:~$ hadoop fs -ls g
2020-08-10 20:15:23,930 WARN util.NativeCodeLoader: Unable to load native-hadoop library for your platform... using builtin-java classes where applicable
Found 1 items
-rw-r--r-- 1 amrit supergroup 16 2020-08-10 20:05 g/gj.tx
amrit@amrit-HP-Notebook:~$
  
```

### 3. - mkdir ( Make Directory )

This command is used to make a new directory into the selected cluster

In order to create subdirectories, the parent directory must exist. If the condition is not met then, 'No such file or directory' message appears

```

amrit@amrit-HP-Notebook:~$ hadoop fs -mkdir amrit
2020-08-10 20:16:11,182 WARN util.NativeCodeLoader: Unable to load native-hadoop library for your platform... using builtin-java classes where applicable
amrit@amrit-HP-Notebook:~$ hadoop fs -ls
2020-08-10 20:16:20,116 WARN util.NativeCodeLoader: Unable to load native-hadoop library for your platform... using builtin-java classes where applicable
Found 5 items
drwxr-xr-x - amrit supergroup          0 2020-08-10 20:16 amrit
-rw-r--r-- 1 amrit supergroup          0 2020-08-10 18:07 bnb
drwxr-xr-x - amrit supergroup          0 2020-08-10 20:05 g
drwxr-xr-x - amrit supergroup          0 2020-08-10 18:23 l
drwxr-xr-x - amrit supergroup          0 2020-08-10 19:47 t
amrit@amrit-HP-Notebook:~$

```

### 4. -touchz

This command is used to create a new directory and file into the Hadoop cluster

```

amrit@amrit-HP-Notebook:~$ hadoop fs -touchz ap.txt
2020-08-10 20:17:49,827 WARN util.NativeCodeLoader: Unable to load native-hadoop library for your platform... using builtin-java classes where applicable
amrit@amrit-HP-Notebook:~$ hadoop fs -ls
2020-08-10 20:18:01,781 WARN util.NativeCodeLoader: Unable to load native-hadoop library for your platform... using builtin-java classes where applicable
Found 6 items
drwxr-xr-x - amrit supergroup          0 2020-08-10 20:16 amrit
-rw-r--r-- 1 amrit supergroup          0 2020-08-10 20:17 ap.txt
-rw-r--r-- 1 amrit supergroup          0 2020-08-10 18:07 bnb
drwxr-xr-x - amrit supergroup          0 2020-08-10 20:05 g
drwxr-xr-x - amrit supergroup          0 2020-08-10 18:23 l
drwxr-xr-x - amrit supergroup          0 2020-08-10 19:47 t
amrit@amrit-HP-Notebook:~$

```

### 5. -copyFromLocal

Copies the file or directory from the local file system from to dest within the DFS.

```

amrit@amrit-HP-Notebook:~$ gedit f1.txt
amrit@amrit-HP-Notebook:~$ hadoop fs -copyFromLocal f1.txt amrit
2020-08-10 20:20:08,147 WARN util.NativeCodeLoader: Unable to load native-hadoop library for your platform... using builtin-java classes where applicable
amrit@amrit-HP-Notebook:~$ hadoop fs -ls
2020-08-10 20:20:31,816 WARN util.NativeCodeLoader: Unable to load native-hadoop library for your platform... using builtin-java classes where applicable
Found 6 items
drwxr-xr-x - amrit supergroup          0 2020-08-10 20:20 amrit
-rw-r--r-- 1 amrit supergroup          0 2020-08-10 20:17 ap.txt
-rw-r--r-- 1 amrit supergroup          0 2020-08-10 18:07 bnb
drwxr-xr-x - amrit supergroup          0 2020-08-10 20:05 g
drwxr-xr-x - amrit supergroup          0 2020-08-10 18:23 l
drwxr-xr-x - amrit supergroup          0 2020-08-10 19:47 t
amrit@amrit-HP-Notebook:~$ hadoop fs -cat amrit/f1.txt
2020-08-10 20:21:16,617 WARN util.NativeCodeLoader: Unable to load native-hadoop library for your platform... using builtin-java classes where applicable
unboxing big data.
amrit@amrit-HP-Notebook:~$

```

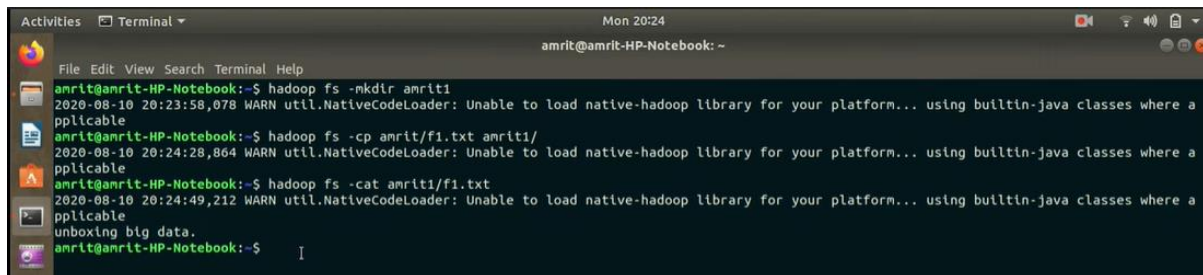
```

amrit@amrit-HP-Notebook:~/Desktop$ hadoop fs -copyToLocal amrit/f1.txt ~/Desktop/
2020-08-10 20:22:54,367 WARN util.NativeCodeLoader: Unable to load native-hadoop library for your platform... using builtin-java classes where applicable
amrit@amrit-HP-Notebook:~/Desktop$ cd Desktop/
amrit@amrit-HP-Notebook:~/Desktop$ ls
'Assignment-2 Results.xlsx' 'Big Data Analytics.ppt' f1.txt  gj.txt  llc.pdf
amrit@amrit-HP-Notebook:~/Desktop$

```

## 6. -cat

Displays the contents of filename on console



The screenshot shows a terminal window titled 'Terminal' with the user 'amrit' on a system named 'amrit-HP-Notebook'. The terminal displays the following commands and their outputs:

```
amrit@amrit-HP-Notebook:~$ hadoop fs -mkdir amrit1
2020-08-10 20:23:58,078 WARN util.NativeCodeLoader: Unable to load native-hadoop library for your platform... using builtin-java classes where applicable

amrit@amrit-HP-Notebook:~$ hadoop fs -cp amrit/f1.txt amrit1/
2020-08-10 20:24:28,864 WARN util.NativeCodeLoader: Unable to load native-hadoop library for your platform... using builtin-java classes where applicable

amrit@amrit-HP-Notebook:~$ hadoop fs -cat amrit1/f1.txt
2020-08-10 20:24:49,212 WARN util.NativeCodeLoader: Unable to load native-hadoop library for your platform... using builtin-java classes where applicable
unboxing big data.
amrit@amrit-HP-Notebook:~$
```

Conclusion:

Thus I have performed File Management in Hadoop Environment.