

HDFS DATA IN AND OUT

By HadoopExam Learning Resources in Association with QuickTechie.com

Load data into and out of HDFS using the Hadoop File System (FS) commands.

1. Check All Available command

```
hdfs dfs
```

2. Get help on command

```
hdfs dfs -help get
```

3. Create Directory in HDFS

```
hdfs dfs -mkdir module2
```

4. Check Directory Created

```
hdfs dfs -ls
```

5. Now delete the directory we have just created

```
hdfs dfs -rmdir module2
```

6. Import file using put command: Copy files from the local file system into hdfs. Copying fails if the file already exists, unless the -f flag is given.

Go to local Path first using below command

```
cd /home/cloudera/Desktop/HadoopExam
```

Command to copy full directory on hdfs (It will copy entire directory content from local file System to HDFS.

```
hdfs dfs -put Module2
```

7. Check Directory has been copied successfully or not

Check Directory Created

```
hdfs dfs -ls
```

Check All files in directory copied successfully.

```
hdfs dfs -ls Module2
```

8. Remove/Delete individual file from hdfs

```
hdfs dfs -rm Module2/Purchase.txt
```

Check the file deleted or not

```
hdfs dfs -ls Module2
```

Some operation on files

9. Merge file : Now we need to merge all the files in a directory

```
hdfs dfs -getmerge Module2 All_Users.txt
```

Question: Where new file will be created?

Ans : On localdisk (Not on HDFS)

Question: In above command there is a small mistake, what is that?

Ans : You must add new line after each file , when you merge the files.

Question: When you are merging big files using getmerge command and it fails to execute, why?

Ans: As HDFS can store hugefiles and after merging it copy the files on local system, but local system is not capable of holding such a huge volume.

10. Adding new line character at the end of each file in merge process

```
hdfs dfs -getmerge -nl Module2 All_Users.txt
```

11. You see ^M character at the end of each line, you have to remove that.

```
dos2unix All_Users.txt
```

12. Exporting file from HDFS to local file system.

```
hdfs dfs -get Module2/Users.txt Module2/User_export.txt
```

13. Create a local directory

```
mkdir Module2_export
```

14. Export Entire Directory

```
hdfs dfs -get Module2 Module2_export
```

15. File Permissions (Using chmod command we can change the permission of the file in hdfs).
Current Permission of the files

```
[cloudera@quickstart Module2_export]$ hdfs dfs -ls Module2
Found 2 items
-rw-r--r-- 1 cloudera cloudera 84 2015-07-25 05:46 Module2/User_New.txt
-rw-r--r-- 1 cloudera cloudera 88 2015-07-25 05:46 Module2/Users.txt
```

Now change the permissions for a file

```
hdfs dfs -chmod 754 Module2/User_New.txt
```

Check the current permissions of the file

```
[cloudera@quickstart Module2_export]$ hdfs dfs -ls Module2
Found 2 items
-rwxr-xr-- 1 cloudera cloudera 84 2015-07-25 05:46 Module2/User_New.txt
-rw-r--r-- 1 cloudera cloudera 88 2015-07-25 05:46 Module2/Users.txt
```

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