

# Chirag Khandhar

A20438926 | CSP 554 - Big Data Technologies | Fall 2020 | Assignment 2

Q9. Execute HDFS command to list all the files or directories.

**hadoop fs -ls /**

```
hadoop@ip-172-31-61-86:~  
[hadoop@ip-172-31-61-86 ~]$ hadoop fs -ls /  
Found 4 items  
drwxr-xr-x - hdfs hadoop 0 2020-09-09 20:27 /apps  
drwxrwxrwt - hdfs hadoop 0 2020-09-09 20:28 /tmp  
drwxr-xr-x - hdfs hadoop 0 2020-09-09 20:27 /user  
drwxr-xr-x - hdfs hadoop 0 2020-09-09 20:27 /var  
[hadoop@ip-172-31-61-86 ~]$ |
```

Q10. Execute HDFS command to list all the files or the directories in **/user** directory

**hadoop fs -ls /user**

```
hadoop@ip-172-31-61-86:~  
[hadoop@ip-172-31-61-86 ~]$ hadoop fs -ls /user  
Found 6 items  
drwxrwxrwx - hadoop hadoop 0 2020-09-09 20:27 /user/hadoop  
drwxr-xr-x - mapred mapred 0 2020-09-09 20:27 /user/history  
drwxrwxrwx - hdfs hadoop 0 2020-09-09 20:27 /user/hive  
drwxrwxrwx - hue hue 0 2020-09-09 20:27 /user/hue  
drwxrwxrwx - oozie oozie 0 2020-09-09 20:27 /user/oozie  
drwxrwxrwx - root hadoop 0 2020-09-09 20:27 /user/root  
[hadoop@ip-172-31-61-86 ~]$
```

Q11. Execute HDFS command to create a new directory under **/user** called **csp554**

**hadoop fs -mkdir /user/csp554**

```
hadoop@ip-172-31-61-86:~  
[hadoop@ip-172-31-61-86 ~]$ hadoop fs -ls /user  
Found 6 items  
drwxrwxrwx - hadoop hadoop 0 2020-09-09 20:27 /user/hadoop  
drwxr-xr-x - mapred mapred 0 2020-09-09 20:27 /user/history  
drwxrwxrwx - hdfs hadoop 0 2020-09-09 20:27 /user/hive  
drwxrwxrwx - hue hue 0 2020-09-09 20:27 /user/hue  
drwxrwxrwx - oozie oozie 0 2020-09-09 20:27 /user/oozie  
drwxrwxrwx - root hadoop 0 2020-09-09 20:27 /user/root  
[hadoop@ip-172-31-61-86 ~]$ hadoop fs -mkdir /user/csp554  
[hadoop@ip-172-31-61-86 ~]$ hadoop fs -ls /user  
Found 7 items  
drwxr-xr-x - hadoop hadoop 0 2020-09-09 21:21 /user/csp554  
drwxrwxrwx - hadoop hadoop 0 2020-09-09 20:27 /user/hadoop  
drwxr-xr-x - mapred mapred 0 2020-09-09 20:27 /user/history  
drwxrwxrwx - hdfs hadoop 0 2020-09-09 20:27 /user/hive  
drwxrwxrwx - hue hue 0 2020-09-09 20:27 /user/hue  
drwxrwxrwx - oozie oozie 0 2020-09-09 20:27 /user/oozie  
drwxrwxrwx - root hadoop 0 2020-09-09 20:27 /user/root  
[hadoop@ip-172-31-61-86 ~]$ |
```

Q12. Execute HDFS command to create a new directory under **/user** called **csp554-2**

**hadoop fs -mkdir /user/csp554-2**

```
hadoop@ip-172-31-61-86:~  
[hadoop@ip-172-31-61-86 ~]$ hadoop fs -mkdir /user/csp554-2  
[hadoop@ip-172-31-61-86 ~]$ hadoop fs -ls /user  
Found 8 items  
drwxr-xr-x - hadoop hadoop 0 2020-09-09 21:21 /user/csp554  
drwxr-xr-x - hadoop hadoop 0 2020-09-09 21:23 /user/csp554-2  
drwxrwxrwx - hadoop hadoop 0 2020-09-09 20:27 /user/hadoop  
drwxr-xr-x - mapred mapred 0 2020-09-09 20:27 /user/history  
drwxrwxrwx - hdfs hadoop 0 2020-09-09 20:27 /user/hive  
drwxrwxrwx - hue hue 0 2020-09-09 20:27 /user/hue  
drwxrwxrwx - oozie oozie 0 2020-09-09 20:27 /user/oozie  
drwxrwxrwx - root hadoop 0 2020-09-09 20:27 /user/root  
[hadoop@ip-172-31-61-86 ~]$
```

Q13. Execute HDFS command to copy a given local file to the given HDFS directory

Source: **/home/hadoop/chiragkhandhar.txt**

Destination: **/user/csp554**

**hadoop fs -copyFromLocal /home/Hadoop/chiragkhandhar.txt /user/csp554**

```
hadoop@ip-172-31-61-86:~  
[hadoop@ip-172-31-61-86 ~]$ hadoop fs -copyFromLocal /home/hadoop/chiragkhandhar.txt /user/csp554  
[hadoop@ip-172-31-61-86 ~]$ hadoop fs -ls /user/csp554  
Found 1 items  
-rw-r--r-- 1 hadoop hadoop 23 2020-09-09 21:37 /user/csp554/chiragkhandhar.txt  
[hadoop@ip-172-31-61-86 ~]$
```

Q14. Execute HDFS command to copy a file from one HDFS directory to another HDFS directory

Source: **/user/csp554/chiragkhandhar.txt**

Destination: **/user/csp554-2**

**hadoop fs -cp /user/csp554/chiragkhandhar.txt /user/csp554-2**

```
hadoop@ip-172-31-61-86:~  
[hadoop@ip-172-31-61-86 ~]$ hadoop fs -cp /user/csp554/chiragkhandhar.txt /user/csp554-2  
[hadoop@ip-172-31-61-86 ~]$ hadoop fs -ls /user/csp554-2  
Found 1 items  
-rw-r--r-- 1 hadoop hadoop 23 2020-09-09 21:40 /user/csp554-2/chiragkhandhar.txt  
[hadoop@ip-172-31-61-86 ~]$
```

Q15. Execute HDFS command to copy the S3 object into HDFS master node.

**aws s3 cp s3://a20438926-mybucket/A20438926.txt /home/hadoop**

```
hadoop@ip-172-31-61-86:~  
[hadoop@ip-172-31-61-86 ~]$ aws s3 cp s3://a20438926-mybucket/A20438926.txt /home/hadoop  
download: s3://a20438926-mybucket/A20438926.txt to ./A20438926.txt  
[hadoop@ip-172-31-61-86 ~]$ ls /home/hadoop  
A20438926.txt chiragkhandhar.txt  
[hadoop@ip-172-31-61-86 ~]$
```

Q16. Execute HDFS command to copy the same S3 object into HDFS directory **/user/csp554-2**.

```
hadoop fs -cp s3://a20438926-mybucket/A20438926.txt hdfs:///user/csp554-2
```

```
hadoop@ip-172-31-61-86:~  
[hadoop@ip-172-31-61-86 ~]$ hadoop fs -cp s3://a20438926-mybucket/A20438926.txt hdfs:///user/csp554-2  
20/09/09 22:50:42 INFO s3n.S3NativeFileSystem: Opening 's3://a20438926-mybucket/A20438926.txt' for reading  
[hadoop@ip-172-31-61-86 ~]$ hadoop fs -ls /user/csp554-2  
Found 2 items  
-rw-r--r-- 1 hadoop hadoop 21 2020-09-09 22:50 /user/csp554-2/A20438926.txt  
-rw-r--r-- 1 hadoop hadoop 23 2020-09-09 21:40 /user/csp554-2/chiragkhandhar.txt  
[hadoop@ip-172-31-61-86 ~]$ |
```

Q17. Execute HDFS command to show the content of **A20438926.txt** in **/user/csp554-2**

```
hadoop fs -cat /user/csp554-2/A20438926.txt
```

```
hadoop@ip-172-31-61-86:~  
[hadoop@ip-172-31-61-86 ~]$ hadoop fs -cat /user/csp554-2/A20438926.txt  
this is the id file  
[hadoop@ip-172-31-61-86 ~]$ |
```

Q18. Execute HDFS command to delete the **A20438926.txt** from **/user/csp554-2**

```
hadoop fs -rm /user/csp554-2/A20438926.txt
```

```
hadoop@ip-172-31-61-86:~  
[hadoop@ip-172-31-61-86 ~]$ hadoop fs -ls /user/csp554-2  
Found 2 items  
-rw-r--r-- 1 hadoop hadoop 21 2020-09-09 22:50 /user/csp554-2/A20438926.txt  
-rw-r--r-- 1 hadoop hadoop 23 2020-09-09 21:40 /user/csp554-2/chiragkhandhar.txt  
[hadoop@ip-172-31-61-86 ~]$ hadoop fs -rm /user/csp554-2/A20438926.txt  
Deleted /user/csp554-2/A20438926.txt  
[hadoop@ip-172-31-61-86 ~]$ hadoop fs -ls /user/csp554-2  
Found 1 items  
-rw-r--r-- 1 hadoop hadoop 23 2020-09-09 21:40 /user/csp554-2/chiragkhandhar.txt  
[hadoop@ip-172-31-61-86 ~]$ |
```