

Nishant Khandhar

A20581012 | CSP 554 - Big Data Technologies | Spring 2026 | Assignment 2

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

```
hadoop fs -ls /
```

```
[[hadoop@ip-10-0-0-245 ~]$ hadoop fs -ls /  
Found 4 items  
drwxr-xr-x - hdfs hdfsadmingroup 0 2026-02-08 23:58 /apps  
drwxrwxrwt - hdfs hdfsadmingroup 0 2026-02-09 00:01 /tmp  
drwxr-xr-x - hdfs hdfsadmingroup 0 2026-02-08 23:58 /user  
drwxr-xr-x - hdfs hdfsadmingroup 0 2026-02-08 23:58 /var  
[hadoop@ip-10-0-0-245 ~]$
```

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

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

```
Downloads — hadoop@ip-10-0-0-245:~ — ssh -i ~/Downloads/emr-key-pair.pem hadoop@54.89.146...  
[[hadoop@ip-10-0-0-245 ~]$ hadoop fs -ls /user  
Found 6 items  
drwxrwxrwx - hadoop hdfsadmingroup 0 2026-02-08 23:58 /user/hadoop  
drwxr-xr-x - mapred mapred 0 2026-02-08 23:58 /user/history  
drwxrwxrwx - hdfs hdfsadmingroup 0 2026-02-08 23:58 /user/hive  
drwxrwxrwx - hue hue 0 2026-02-08 23:58 /user/hue  
drwxrwxrwx - oozie oozie 0 2026-02-08 23:59 /user/oozie  
drwxrwxrwx - root hdfsadmingroup 0 2026-02-08 23:58 /user/root  
[hadoop@ip-10-0-0-245 ~]$
```

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

```
hadoop fs -mkdir /user/csp554
```

```
Downloads — hadoop@ip-10-0-0-245:~ — ssh -i ~/Downloads/emr-key-pair.pem hadoop@54.89.146...  
[[hadoop@ip-10-0-0-245 ~]$ hadoop fs -ls /user  
Found 6 items  
drwxrwxrwx - hadoop hdfsadmingroup 0 2026-02-08 23:58 /user/hadoop  
drwxr-xr-x - mapred mapred 0 2026-02-08 23:58 /user/history  
drwxrwxrwx - hdfs hdfsadmingroup 0 2026-02-08 23:58 /user/hive  
drwxrwxrwx - hue hue 0 2026-02-08 23:58 /user/hue  
drwxrwxrwx - oozie oozie 0 2026-02-08 23:59 /user/oozie  
drwxrwxrwx - root hdfsadmingroup 0 2026-02-08 23:58 /user/root  
[[hadoop@ip-10-0-0-245 ~]$ hadoop fs -mkdir /user/csp554  
[[hadoop@ip-10-0-0-245 ~]$ hadoop fs -ls /user  
Found 7 items  
drwxr-xr-x - hadoop hdfsadmingroup 0 2026-02-09 00:33 /user/csp554  
drwxrwxrwx - hadoop hdfsadmingroup 0 2026-02-08 23:58 /user/hadoop  
drwxr-xr-x - mapred mapred 0 2026-02-08 23:58 /user/history  
drwxrwxrwx - hdfs hdfsadmingroup 0 2026-02-08 23:58 /user/hive  
drwxrwxrwx - hue hue 0 2026-02-08 23:58 /user/hue  
drwxrwxrwx - oozie oozie 0 2026-02-08 23:59 /user/oozie  
drwxrwxrwx - root hdfsadmingroup 0 2026-02-08 23:58 /user/root  
[hadoop@ip-10-0-0-245 ~]$
```

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

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

```
Downloads — hadoop@ip-10-0-0-245:~ — ssh -i ~/Downloads/emr-key-pair.pem hadoop@54.89.146...
[hadoop@ip-10-0-0-245 ~]$ hadoop fs -mkdir /user/csp554-2
[hadoop@ip-10-0-0-245 ~]$ hadoop fs -ls /user
Found 8 items
drwxr-xr-x - hadoop hdfsadmin 0 2026-02-09 00:33 /user/csp554
drwxr-xr-x - hadoop hdfsadmin 0 2026-02-09 00:35 /user/csp554-2
drwxrwxrwx - hadoop hdfsadmin 0 2026-02-08 23:58 /user/hadoop
drwxr-xr-x - mapred mapred 0 2026-02-08 23:58 /user/history
drwxrwxrwx - hdfs hdfsadmin 0 2026-02-08 23:58 /user/hive
drwxrwxrwx - hue hue 0 2026-02-08 23:58 /user/hue
drwxrwxrwx - oozie oozie 0 2026-02-08 23:59 /user/oozie
drwxrwxrwx - root hdfsadmin 0 2026-02-08 23:58 /user/root
[hadoop@ip-10-0-0-245 ~]$
```

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

Source: /home/hadoop/nishantkhandhar.txt

Destination: /user/csp554

```
hadoop fs -copyFromLocal /home/hadoop/nishantkhandhar.txt /user/csp554
```

```
Downloads — hadoop@ip-10-0-0-245:~ — ssh -i ~/Downloads/emr-key-pair.pem hadoop@54.89.146...
[hadoop@ip-10-0-0-245 ~]$ hadoop fs -copyFromLocal /home/hadoop/nishantkhandhar.txt /user/csp554
[hadoop@ip-10-0-0-245 ~]$ hadoop fs -ls /user/csp554
Found 1 items
-rw-r--r-- 1 hadoop hdfsadmin 23 2026-02-09 00:39 /user/csp554/nishantkhandhar.txt
[hadoop@ip-10-0-0-245 ~]$
```

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

Source: /user/csp554/nishantkhandhar.txt

Destination: /user/csp554-2

```
hadoop fs -cp /user/csp554/nishantkhandhar.txt /user/csp554-2
```

```
Downloads — hadoop@ip-10-0-0-245:~ — ssh -i ~/Downloads/emr-key-pair.pem hadoop@54.89.146...
[hadoop@ip-10-0-0-245 ~]$ hadoop fs -cp /user/csp554/nishantkhandhar.txt /user/csp554-2
[hadoop@ip-10-0-0-245 ~]$ hadoop fs -ls /user/csp554-2
Found 1 items
-rw-r--r-- 1 hadoop hdfsadmin 23 2026-02-09 00:41 /user/csp554-2/nishantkhandhar.txt
[hadoop@ip-10-0-0-245 ~]$
```

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

```
aws s3 cp s3://a20581012-csp554/A20581012.txt /home/hadoop
```

```
Downloads — hadoop@ip-10-0-0-245:~ — ssh -i ~/Downloads/emr-key-pair.pem hadoop@54.89.146...
[hadoop@ip-10-0-0-245 ~]$ aws s3 cp s3://a20581012-csp554/A20581012.txt /home/hadoop
download: s3://a20581012-csp554/A20581012.txt to ./A20581012.txt
[hadoop@ip-10-0-0-245 ~]$ ls /home/hadoop
A20581012.txt nishantkhandhar.txt
[hadoop@ip-10-0-0-245 ~]$
```

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

```
hadoop fs -cp s3://a20581012-csp554/A20581012.txt hdfs:///user/csp554-2
```

```
Downloads — hadoop@ip-10-0-0-245:~ — ssh -i ~/Downloads/emr-key-pair.pem hadoop@54.89.146...
[hadoop@ip-10-0-0-245 ~]$ hadoop fs -cp s3://a20581012-csp554/A20581012.txt hdfs:///user/csp554-2
2026-02-09 00:51:24,755 INFO s3a.EMRFSToS3AConfigMapping: Mapping EMRFS config fs.s3.sts.endpoint to S3A
config fs.s3a.assumed.role.sts.endpoint
2026-02-09 00:51:24,755 INFO s3a.EMRFSToS3AConfigMapping: Mapping EMRFS config fs.s3.buffer.dir to S3A co
nfig fs.s3a.buffer.dir
2026-02-09 00:51:24,867 INFO impl.MetricsConfig: Loaded properties from hadoop-metrics2.properties
2026-02-09 00:51:24,972 INFO impl.MetricsSystemImpl: Scheduled Metric snapshot period at 300 second(s).
2026-02-09 00:51:24,972 INFO impl.MetricsSystemImpl: s3a-file-system metrics system started
2026-02-09 00:51:26,798 INFO impl.MetricsSystemImpl: Stopping s3a-file-system metrics system...
2026-02-09 00:51:26,798 INFO impl.MetricsSystemImpl: s3a-file-system metrics system stopped.
2026-02-09 00:51:26,798 INFO impl.MetricsSystemImpl: s3a-file-system metrics system shutdown complete.
[hadoop@ip-10-0-0-245 ~]$ hadoop fs -ls /user/csp554-2
Found 2 items
-rw-r--r-- 1 hadoop hdfsadmingroup 21 2026-02-09 00:51 /user/csp554-2/A20581012.txt
-rw-r--r-- 1 hadoop hdfsadmingroup 23 2026-02-09 00:41 /user/csp554-2/nishantkhandhar.txt
[hadoop@ip-10-0-0-245 ~]$
```

Q17. Execute HDFS command to show the content of `A20581012.txt` in `/user/csp554-2`.

```
hadoop fs -cat /user/csp554-2/A20581012.txt
```

```
Downloads — hadoop@ip-10-0-0-245:~ — ssh -i ~/Downloads/emr-key-pair.pem hadoop@54.89.146...
[hadoop@ip-10-0-0-245 ~]$ hadoop fs -cat /user/csp554-2/A20581012.txt
this is the id file
[hadoop@ip-10-0-0-245 ~]$
```

Q18. Execute HDFS command to delete the `A20581012.txt` from `/user/csp554-2`.

```
hadoop fs -rm /user/csp554-2/A20581012.txt
```

```
Downloads — hadoop@ip-10-0-0-245:~ — ssh -i ~/Downloads/emr-key-pair.pem hadoop@54.89.146...
[hadoop@ip-10-0-0-245 ~]$ hadoop fs -ls /user/csp554-2
Found 2 items
-rw-r--r-- 1 hadoop hdfsadmingroup 21 2026-02-09 00:51 /user/csp554-2/A20581012.txt
-rw-r--r-- 1 hadoop hdfsadmingroup 23 2026-02-09 00:41 /user/csp554-2/nishantkhandhar.txt
[hadoop@ip-10-0-0-245 ~]$ hadoop fs -rm /user/csp554-2/A20581012.txt
Deleted /user/csp554-2/A20581012.txt
[hadoop@ip-10-0-0-245 ~]$ hadoop fs -ls /user/csp554-2
Found 1 items
-rw-r--r-- 1 hadoop hdfsadmingroup 23 2026-02-09 00:41 /user/csp554-2/nishantkhandhar.txt
[hadoop@ip-10-0-0-245 ~]$
```