

## LAB- 5

**AIM:** To run HDFS commands.

**Command 1:** `hdfs dfs -ls` : List contents of HDFS

```
cloudera@quickstart:~  
File Edit View Search Terminal Help  
[cloudera@quickstart ~]$ hadoop fs -ls /  
Found 6 items  
drwxrwxrwx - hdfs supergroup 0 2017-10-23 09:15 /benchmarks  
drwxr-xr-x - hbase supergroup 0 2023-04-24 12:54 /hbase  
drwxr-xr-x - solr solr 0 2017-10-23 09:18 /solr  
drwxrwxrwt - hdfs supergroup 0 2023-04-23 14:29 /tmp  
drwxr-xr-x - hdfs supergroup 0 2023-04-24 08:38 /user  
drwxr-xr-x - hdfs supergroup 0 2017-10-23 09:17 /var  
[cloudera@quickstart ~]$
```

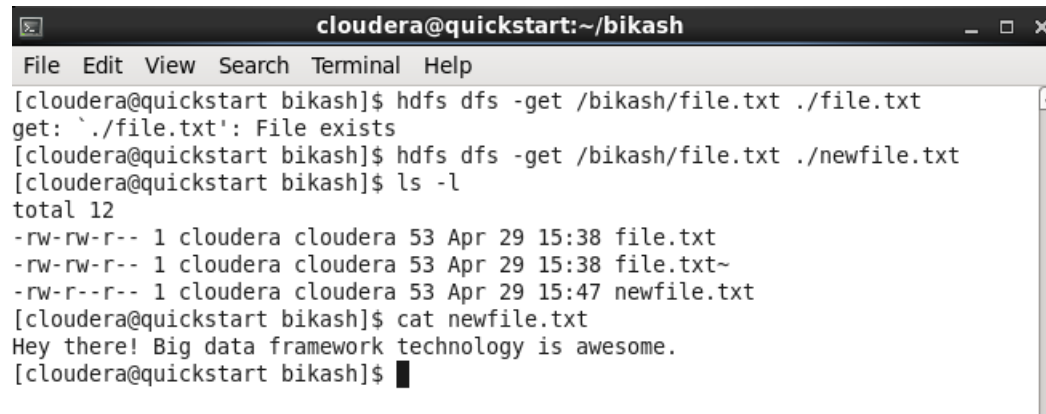
**Command 2:** `hdfs dfs -mkdir` : To create new directory

```
cloudera@quickstart:~  
File Edit View Search Terminal Help  
[cloudera@quickstart ~]$ hdfs dfs -mkdir /bikash  
[cloudera@quickstart ~]$ hdfs dfs -ls /  
Found 7 items  
drwxrwxrwx - hdfs supergroup 0 2017-10-23 09:15 /benchmarks  
drwxr-xr-x - cloudera supergroup 0 2023-04-29 15:23 /bikash  
drwxr-xr-x - hbase supergroup 0 2023-04-24 12:54 /hbase  
drwxr-xr-x - solr solr 0 2017-10-23 09:18 /solr  
drwxrwxrwt - hdfs supergroup 0 2023-04-23 14:29 /tmp  
drwxr-xr-x - hdfs supergroup 0 2023-04-24 08:38 /user  
drwxr-xr-x - hdfs supergroup 0 2017-10-23 09:17 /var  
[cloudera@quickstart ~]$
```

**Command 3:** `hdfs dfs -put` OR `CopyFromLocal`: Copies file from local filesystem to HDFS

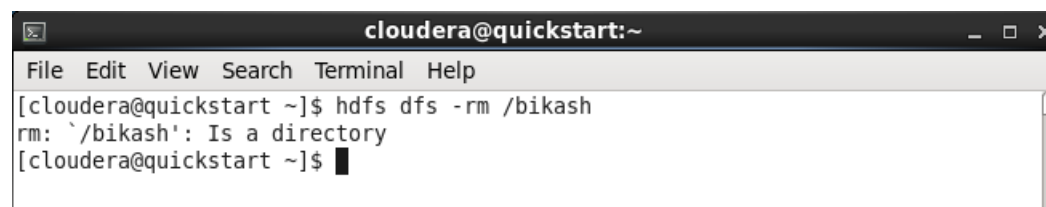
```
cloudera@quickstart:~/bikash  
File Edit View Search Terminal Help  
[cloudera@quickstart bikash]$ hdfs dfs -put file.txt /bikash/file.txt  
[cloudera@quickstart bikash]$ hdfs dfs -cat /bikash/file.txt  
Hey there! Big data framework technology is awesome.  
[cloudera@quickstart bikash]$
```

**Command 4:** `hdfs dfs -get` OR `CopyToLocal`: Copies file from HDFS to the local file system.



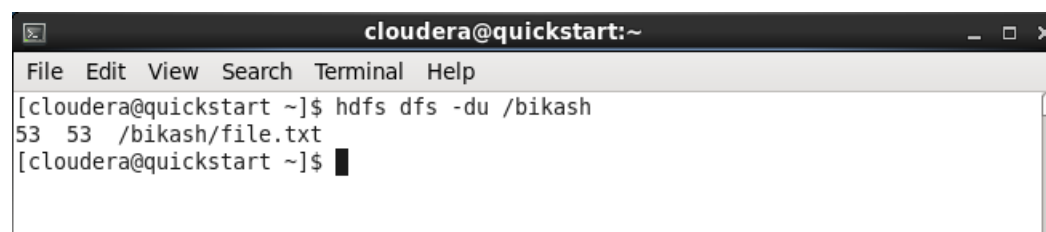
```
cloudera@quickstart:~/bikash
File Edit View Search Terminal Help
[cloudera@quickstart bikash]$ hdfs dfs -get /bikash/file.txt ./file.txt
get: './file.txt': File exists
[cloudera@quickstart bikash]$ hdfs dfs -get /bikash/file.txt ./newfile.txt
[cloudera@quickstart bikash]$ ls -l
total 12
-rw-rw-r-- 1 cloudera cloudera 53 Apr 29 15:38 file.txt
-rw-rw-r-- 1 cloudera cloudera 53 Apr 29 15:38 file.txt~
-rw-r--r-- 1 cloudera cloudera 53 Apr 29 15:47 newfile.txt
[cloudera@quickstart bikash]$ cat newfile.txt
Hey there! Big data framework technology is awesome.
[cloudera@quickstart bikash]$
```

**Command 5:** `hdfs dfs -rm`: Deletes file or directory from HDFS



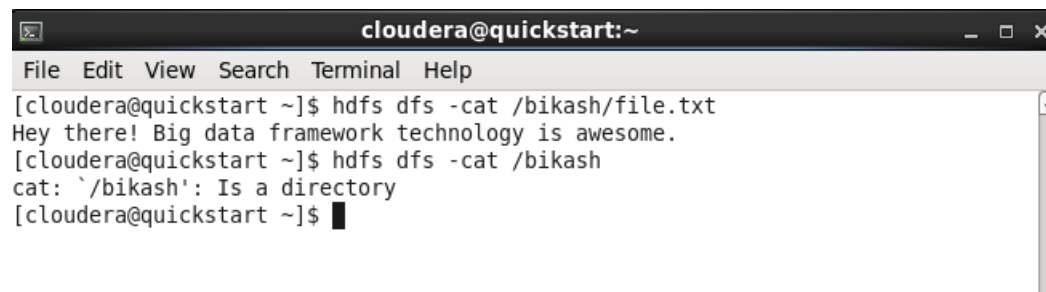
```
cloudera@quickstart:~
File Edit View Search Terminal Help
[cloudera@quickstart ~]$ hdfs dfs -rm /bikash
rm: '/bikash': Is a directory
[cloudera@quickstart ~]$
```

**Command 6:** `hdfs dfs -du`: Shows disk usage of file or directory in hdfs.



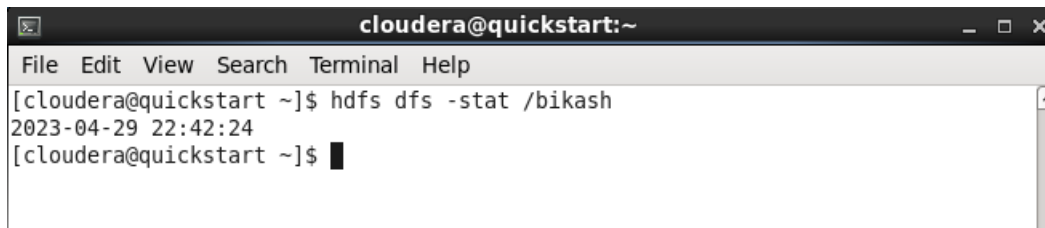
```
cloudera@quickstart:~
File Edit View Search Terminal Help
[cloudera@quickstart ~]$ hdfs dfs -du /bikash
53 53 /bikash/file.txt
[cloudera@quickstart ~]$
```

**Command 7:** `hdfs dfs -cat`: Displays contents of file in HDFS



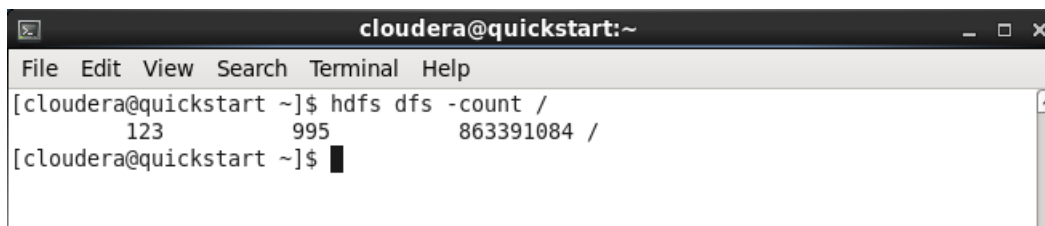
```
cloudera@quickstart:~
File Edit View Search Terminal Help
[cloudera@quickstart ~]$ hdfs dfs -cat /bikash/file.txt
Hey there! Big data framework technology is awesome.
[cloudera@quickstart ~]$ hdfs dfs -cat /bikash
cat: '/bikash': Is a directory
[cloudera@quickstart ~]$
```

**Command 8:** `hdfs dfs -stat`: Gives last modified time of file or directory



```
cloudera@quickstart:~  
File Edit View Search Terminal Help  
[cloudera@quickstart ~]$ hdfs dfs -stat /bikash  
2023-04-29 22:42:24  
[cloudera@quickstart ~]$
```

**Command 9:** `hdfs dfs -count`: Count number of files or directories



```
cloudera@quickstart:~  
File Edit View Search Terminal Help  
[cloudera@quickstart ~]$ hdfs dfs -count /  
123 995 863391084 /  
[cloudera@quickstart ~]$
```