Hadoop: Basic HDFS Commands

Big Data Certification

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Basic HDFS Commands

Command 1: Create a directory in HDFS

> $hdfsdfs -mkdir weblog

```
[training@hadoop data]$ hdfs dfs -mkdir weblog
[training@hadoop data]$ █
```

Command 2: Display files in HDFS

> $hdfsdfs -ls /user/training OR $hdfsdfs -ls

```
[training@hadoop ~]$ hdfs dfs -ls /user/training
[training@hadoop ~]$ hdfs dfs -ls
[training@hadoop ~]$ █
```

Note: The above commands can be used alternatively because '–ls' without any arguments defaults to the present working directory. The default working directory or the home directory of HDFS in this case is '/user/training'.

Command 3: Upload files from the local directory to HDFS (Create a dummy 'xyz.txt' file, first)

> $hdfsdfs –put xyz.txt /user/training

```
[training@hadoop ~]$ hdfs dfs -put xyz.txt /user/training
[training@hadoop ~]$ hdfs dfs -put xyz.txt /user/training/
put: `/user/training/xyz.txt': File exists
[training@hadoop ~]$ █
```

Command 4: Create a local directory and download files from HDFS to that local directory

```
$ mkdir /home/training/testfolder
$ hdfsdfs –get /user/training/xyz.txt /home/training/testfolder
```

```
[training@hadoop ~]$ mkdir newfolder
[training@hadoop ~]$ hdfs dfs -get /user/training/xyz.txt /home/training/newfolder
[training@hadoop ~]$ ls /home/training/newfolder
xyz.txt
[training@hadoop ~]$ █
```

Command 5: List all HDFS commands

```
$ hdfsdfs -help
```

```
[training@hadoop ~]$ hdfs dfs -help
Usage: hadoop fs [generic options]
        [-cat [-ignoreCrc] <src> ...]
        [-chgrp [-R] GROUP PATH...]
        [-chmod [-R] <MODE[,MODE]... | OCTALMODE> PATH...]
        [-chown [-R] [OWNER][:[GROUP]] PATH...]
        [-copyFromLocal <localsrc> ... <dst>]
        [-copyToLocal [-ignoreCrc] [-crc] <src> ... <localdst>]
        [-count [-q] <path> ...]
        [-cp <src> ... <dst>]
        [-df [-h] [<path> ...]]
        [-du [-s] [-h] <path> ...]
        [-expunge]
        [-get [-ignoreCrc] [-crc] <src> ... <localdst>]
        [-getmerge [-nl] <src> <localdst>]
        [-help [cmd ...]]
```