

Foundations for Big Data Systems and Programming

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Course Website: Access from your “Moodle” portal

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HDFS – User Commands (dfs)

List directory contents

```
hdfs dfs -ls
hdfs dfs -ls /
hdfs dfs -ls -R /var
```

Display the disk space used by files

```
hdfs dfs -du -h /
```

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Other Interfaces to HDFS

HTTP Interface

```
http://quickstart.cloudera:50070
```

MountableHDFS – FUSE

```
mkdir /home/cloudera/hdfs
sudo hadoop-fuse-dfs
dfs://quickstart.cloudera:8020
/home/cloudera/hdfs
```

Once mounted all operations on HDFS can be performed using standard Unix utilities such as 'ls', 'cd', 'cp', 'mkdir', 'find', 'grep',

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HDFS – Shell Commands

There are two types of shell commands

User Commands

`hdfs dfs` – runs filesystem commands on the HDFS
`hdfs fsck` – runs a HDFS filesystem checking command

Administration Commands

`hdfs dfsadmin` – runs HDFS administration commands

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HDFS – User Commands (dfs)

Copy data to HDFS

```
hdfs dfs -mkdir tdata
hdfs dfs -ls
hdfs dfs -copyFromLocal file.txt tdata
hdfs dfs -ls -R
```

Copy the file back to local filesystem

```
hdfs dfs -copyToLocal tdata/file.txt
```

Removing a file

```
hdfs dfs -rm tdataset/tfile.txt
hdfs dfs -ls -R
```

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Data, for the love of the City

THANK YOU

Assoc. Prof. Pejman Rasti

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