

Program 1. Start by reviewing HDFS. You will find that its composition is similar to your local Linux file system. You will use the `hadoop fs` command when interacting with HDFS.

- Review the commands available for the Hadoop Distributed File System:
- Copy file `foo.txt` from local disk to the user's directory in HDFS
- Get a directory listing of the user's home directory in HDFS
- Get a directory listing of the HDFS root directory
- Display the contents of the HDFS file `/user/cloudera/fred/bar.txt`

Step 1: Review the commands for HDFS

```
$ sudo jps |grep Node
```

```
$ hadoop fs
```

Step 2 : Copy file `foo.txt` from local disk to user's directory in HDFS
first create file `foo.txt`

```
$ vi foo.txt
```

Step 3: Copy the file `foo.txt` from current working directory to user directory in HDFS, use the

```
$ hadoop fs -put foo.txt /user/cloudera
```

Step 4 : Get a directory listing of the user's Home directory in HDFS

```
$ hadoop fs -ls /user/cloudera
```

Step 5: Get a directory listing of the HDFS root directory

```
$ hadoop fs -ls /
```

Step 6: Display the contents of the HDFS file `/user/cloudera/fred/bar.txt`

```
$ hadoop fs -mkdir /user/cloudera/fred
```

```
$ vi bar.txt
```

```
$ hadoop fs -put bar.txt /user/cloudera/fred
```

```
$ hadoop fs -cat /user/cloudera/fred/bar.txt
```

Program 2. Start by reviewing HDFS. You will find that its composition is similar to your local Linux file system. You will use the `hadoop fs` command when interacting with HDFS.

- Move that file to the local disk, named as `baz.txt`
- Create a directory called `input` under the user's home directory
- Delete the directory `input` and all its contents
- Verify the copy by listing the directory contents in HDFS.
- Move the file to the local disk named as `baz.txt`

Step 1: Move that file to the local disk, named as `baz.txt`

```
$ hadoop fs -get /user/cloudera/fred/bar.txt baz.txt
```

Step 2 : Create a directory called `input` under the user's home directory

```
$ hadoop fs -mkdir /user/cloudera/input
```

```
$ hadoop fs -ls /user/cloudera
```

Step 3: Delete the directory `input` and all its contents

```
$ hadoop fs -rm -r /user/cloudera/input
```

Step 4 : Verify the copy by listing the directory contents in HDFS.

```
$ hadoop fs -ls /user/cloudera
```