### Command-Line Interface

You can start by creating a directory for your username, if it doesn't exist yet:

```
% hadoop fs -mkdir -p root
```

In my case, I'm using root user.

We can do all usual filesystem operations, e.g., creating and listing directories, reading and moving files, deleting data, etc. Use:

```
% hadoop fs -help
```

to get detailed help on every command.

### Use:

```
% hadoop fs -copyFromLocal file.txt
    hdfs://localhost/user/root/file copied a.txt
```

to copy a file from the local filesystem to HDFS. Equivalent to:

```
% hadoop fs -copyFromLocal file.txt
/user/root/file copied b.txt
```

(it takes the default host URI, hdfs://localhost, from core-site.xml).

And, if the destination path is relative, it'll go to the home directory:

```
% hadoop fs -copyFromLocal file.txt file_copied_c.txt
```

# To remove a file, just use:

```
% hadoop fs -rm file copied c.txt
```

You can create and list a directory in the DFS:

```
% hadoop fs -mkdir my subdir
```

You can also list all the files in a directory:

```
% hadoop fs -ls .
```

#### You can use:

```
% hdfs fsck / -files -blocks
```

to list the blocks that make up each file in the filesystem.

If you copy a file back to the local file system:

### And check if it was well copied:

```
% md5sum file.txt file back from hdfs.txt
```

```
83407c9b2d1bc4edb96cc057ef57ae57 file.txt
83407c9b2d1bc4edb96cc057ef57ae57 file_back_from_hdfs.txt
```

# Note that you can access the local filesystem through Hadoop interfaces with:

hadoop fs -ls file:///root

```
Found 9 items

-rw-r--r- 1 root root 3106 2019-12-05 14:39 file:///root/.bashrc
drwx---- - root root 4096 2021-03-25 09:39 file:///root/.cache
-rw-r--r- 1 root root 4096 2021-03-21 10:18 file:///root/.profile
drwx---- - root root 4096 2021-03-21 10:18 file:///root/.ssh
-rw-r--r- 1 root root 10000 2021-03-25 10:34 file:///root/file.txt
-rw-r--r- 1 root root 10000 2021-03-25 10:57 file:///root/file_back_from_hdfs.txt
-rwxr-xr-x 1 root root 1773 2021-03-21 09:57 file:///root/first-test.sh
-rwxr-xr-x 1 root root 136 2021-03-21 10:10 file:///root/start-hadoop.sh
-rwxr-xr-x 1 root root 83 2021-03-08 06:19 file:///root/stop-hadoop.sh
```

# **Utilities**

```
Use:
```

To generate a random file.