

1. ls

```
ubuntu@ip-172-31-19-22:~/hadoop-3.3.6$ bin/hdfs dfs -ls /home
Found 2 items
-rw-r--r--   3 ubuntu supergroup      175 2024-01-25 04:02 /home/README.txt
drwxr-xr-x   - ubuntu supergroup       0 2024-01-25 03:54 /home/john
```

List the content of current directory. In the above example, it shows that there are 2 files or directories in directory `/home`

2. mkdir

```
ubuntu@ip-172-31-19-22:~/hadoop-3.3.6$ bin/hdfs dfs -mkdir /home/Lesley
ubuntu@ip-172-31-19-22:~/hadoop-3.3.6$ bin/hdfs dfs -ls /home/Lesley
ubuntu@ip-172-31-19-22:~/hadoop-3.3.6$
```

Make/create a directory in HDFS as specified

Here I created a folder named `Lesley` under `/home`. Command `ls` shows that there's no item under this directory.

3. put

```
ubuntu@ip-172-31-19-22:~/hadoop-3.3.6$ bin/hdfs dfs -put README.txt /home/Lesley
ubuntu@ip-172-31-19-22:~/hadoop-3.3.6$ bin/hdfs dfs -ls /home/Lesley
Found 1 items
-rw-r--r--   3 ubuntu supergroup      175 2024-01-28 04:00 /home/Lesley/README.txt
```

Put/copy an item from local to HDFS

In the above lines of commands, I moved README.txt from local default folder to `/home/Lesley`.

4. get

```
ubuntu@ip-172-31-19-22:~/hadoop-3.3.6$ bin/hdfs dfs -get /home/Lesley/README.txt readme_copy.txt
ubuntu@ip-172-31-19-22:~/hadoop-3.3.6$ ls
LICENSE-binary  NOTICE-binary  README.txt  etc  lib  licenses-binary  output  sbin
LICENSE.txt     NOTICE.txt    bin        include  libexec  logs          readme_copy.txt  share
ubuntu@ip-172-31-19-22:~/hadoop-3.3.6$ cat readme_copy.txt
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    http://hadoop.apache.org/

and our wiki, at:

    https://cwiki.apache.org/confluence/display/HADOOP/
ubuntu@ip-172-31-19-22:~/hadoop-3.3.6$

ubuntu@ip-172-31-19-22:~/hadoop-3.3.6$ bin/hdfs dfs -get /home/Lesley HDFS_Docs
ubuntu@ip-172-31-19-22:~/hadoop-3.3.6$ ls
HDFS_Docs  LICENSE.txt  NOTICE.txt  bin  include  libexec  logs  sbin
LICENSE-binary  NOTICE-binary  README.txt  etc  lib  licenses-binary  output  share
ubuntu@ip-172-31-19-22:~/hadoop-3.3.6$ cd HDFS_Docs
ubuntu@ip-172-31-19-22:~/hadoop-3.3.6/HDFS_Docs$ ls
README.txt
ubuntu@ip-172-31-19-22:~/hadoop-3.3.6/HDFS_Docs$
```

Get/copy a whole directory or a file from HDFS to local directory or file. If the local directory does not exist, it will automatically make one.

The above example 1 copies a file README.txt to local default folder.

The above example 2 copies the whole HDFS directory `/home/Lesley` to local folder `HDFS_Docs`.

5. rm

```
ubuntu@ip-172-31-19-22:~/hadoop-3.3.6$ bin/hdfs dfs -rm /home/Lesley/README.txt
Deleted /home/Lesley/README.txt
ubuntu@ip-172-31-19-22:~/hadoop-3.3.6$
```

Remove/delete a file (not a directory) in HDFS

6. rmdir

```
ubuntu@ip-172-31-19-22:~/hadoop-3.3.6$ bin/hdfs dfs -rmdir /home/Lesley
ubuntu@ip-172-31-19-22:~/hadoop-3.3.6$ bin/hdfs dfs -ls /home
Found 1 items
-rw-r--r--  3 ubuntu supergroup      175 2024-01-25 04:02 /home/README.txt
```

Remove/delete an empty directory in HDFS.

In step 5, we know that the directory Lesley is empty, so now it can be safely removed. From the above code we can see that under */home* there's no longer */home/Lesley*. It is removed successfully.

7. cp

```
ubuntu@ip-172-31-19-22:~/hadoop-3.3.6$ bin/hdfs dfs -cp /home/README.txt /home/Maria
ubuntu@ip-172-31-19-22:~/hadoop-3.3.6$ bin/hdfs dfs -ls /home/Maria
Found 1 items
-rw-r--r--  3 ubuntu supergroup      175 2024-01-28 09:16 /home/Maria/README.txt
ubuntu@ip-172-31-19-22:~/hadoop-3.3.6$
```

Copy a file or multiple files from specified path to another directory/path. When copying multiple files, the destination must be a directory, not a file name.

In the example, I copied README.txt from */home* to */home/Maria*.

8. cat

```
ubuntu@ip-172-31-19-22:~/hadoop-3.3.6$ bin/hdfs dfs -cat /home/Maria/README.txt
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  http://hadoop.apache.org/

and our wiki, at:

  https://cwiki.apache.org/confluence/display/HADOOP/
ubuntu@ip-172-31-19-22:~/hadoop-3.3.6$
```

Display the content under the specified path. It must be a file, not a directory.