Copy your data into the Hadoop Distributed File System (HDFS) Instructions

Learning Goals

Instructions

Download a text file of words

Open a terminal shell

Copy text file from local file system to HDFS (Hadoop Distributed File System)

Copy file within HDFS

Copy from HDFS to local file system

Delete file in HDFS

Learning Goals

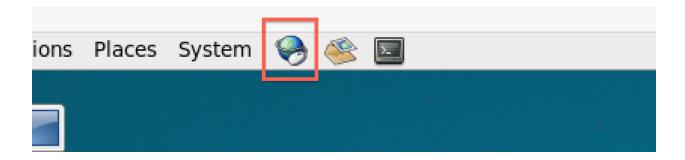
By the end of this activity, you will be able to:

- Interact with Hadoop using the command-line application.
- Copy files into and out of the Hadoop Distributed File System (HDFS).

Instructions

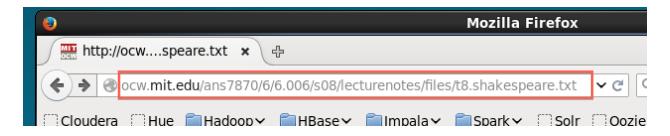
Download a text file of words

1. **Open a browser.** Open the browser by click on the browser icon on the top left of the screen.



2. Download the Shakespeare. We are going to download a text file to copy into HDFS. Enter the following link in the browser:

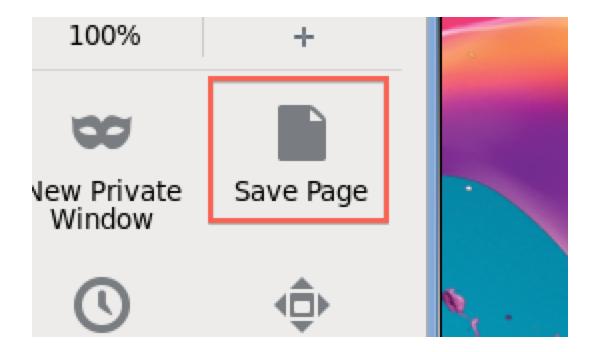
http://ocw.mit.edu/ans7870/6/6.006/s08/lecturenotes/files/t8.shakespeare.txt



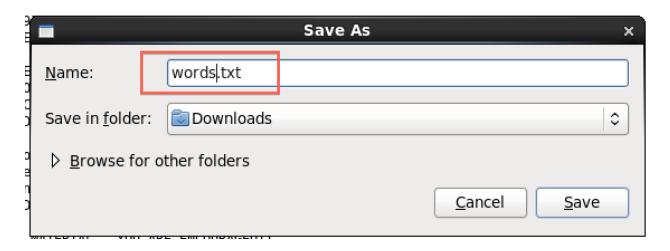
Once the page is loaded, click on the Open menu button.



Click on Save Page



Change the output to words.txt and click Save.



Open a terminal shell

2. Open a terminal shell. Open a terminal shell by clicking on the square black box on the top left of the screen.



Run *cd Downloads* to change to the Downloads directory.

[cloudera@quickstart ~]\$ cd Downloads/ [cloudera@quickstart Downloads]\$

Run Is to see that words.txt was saved.

[cloudera@quickstart Downloads]\$ ls
words.txt

Copy text file from local file system to HDFS (Hadoop Distributed File System)

3. **Copy file to HDFS.** Run *hadoop fs –copyFromLocal words.txt* to copy the text file to HDFS.

```
[cloudera@quickstart Downloads]$ hadoop fs -copyFromLocal words.txt
[cloudera@quickstart Downloads]$
```

4. **Verify file was copied to HDFS.** Run *hadoop fs —ls* to verify the file was copied to HDFS.

```
[cloudera@quickstart Downloads]$ hadoop fs -ls
Found 1 items
-rw-r--r-- 1 cloudera cloudera 5458199 2016-02-12 15:14 words.txt
[cloudera@quickstart Downloads]$
```

Copy file within HDFS

5. **Copy a file within HDFS**. You can make a copy of a file in HDFS. Run *hadoop fs -cp words.txt words2.txt* to make a copy of words.txt called words2.txt

```
[cloudera@quickstart Downloads]$ hadoop fs -cp words.txt words2.txt
[cloudera@quickstart Downloads]$
```

We can see the new file by running hadoop fs -ls

Copy from HDFS to local file system

6. **Copy a file from HDFS.** We can also copy a file from HDFS to the local file system. Run *hadoop fs -copyToLocal words2.txt* . to copy words2.txt to the local directory.

```
[cloudera@quickstart Downloads]$ hadoop fs -copyToLocal words2.txt
[cloudera@quickstart Downloads]$
```

Let's run *I*s to see that the file was copied to see that words2.txt is there.

[cloudera@quickstart Downloads]\$ ls words2.txt words.txt [cloudera@quickstart Downloads]\$

Delete file in HDFS

7. **Delete a file in HDFS.** Let's the delete words2.txt in HDFS. Run *hadoop fs -rm words2.txt*

```
[cloudera@quickstart Downloads]$ hadoop fs -rm words2.txt
16/02/12 15:17:01 INFO fs.TrashPolicyDefault: Namenode trash configuration: Dele
tion interval = 0 minutes, Emptier interval = 0 minutes.
Deleted words2.txt
[cloudera@quickstart Downloads]$
```

Run hadoop fs -ls to see that the file is gone.