COPY FILES INTO HADOOP

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

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

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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

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



Click on Save Page



Change the output to words.txt and click Save.

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

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

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

Run *ls* to see that words.txt was saved.

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

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

[cloudera@quickstart	Downloads]\$	hadoop	fs	<pre>-copyFromLocal</pre>	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-rr 1 cloudera cloudera	5458199 2016-02-12 15:14 words.txt					
[cloudera@quickstart Downloads]\$						

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

```
[cloudera@quickstart Downloads]$ hadoop fs -ls
Found 2 items
-rw-r--r-- 1 cloudera cloudera
[cloudera@quickstart Downloads]$
5458199 2016-02-12 15:14 words.txt
5458199 2016-02-12 15:15 words2.txt
```

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 *ls* 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]\$

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.

```
[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]$
```