**Hadoop File System Commands List:**

https://hadoop.apache.org/docs/r2.7.1/hadoop-project-dist/hadoop-common/FileSystemShell.html

**Commands for Chapter 2 - Amazon**

How to submit a customer Jar:

<http://docs.aws.amazon.com/ElasticMapReduce/latest/DeveloperGuide/emr-launch-custom-jar-cli.html>

In Amazon console, set up Jar (max-temperature.jar) and then set up arguments:

MaxTemperature

s3://chapter2/input

s3://chapter2/output – this folder should be created by the system not by us. We only specify the location of output folder.

In Amazon SSH command interface:

Amazon local drive folder is /home/hadoop; Amazon HDFS folder is /user/hadoop

Copy file from S3 to Local Disk:

aws s3 cp s3://chapter2/MaxTemperatureMapper.java .

aws s3 cp s3://textbook-example/URLCat.java .

Copy file from Local Disk to HDFS

hdfs dfs -copyFromLocal file.gz .

hdfs dfs -copyFromLocal sample.txt.gz .

List files in local drive:

ls

List files in HDFS:

hdfs dfs -ls /user/hadoop/

Delete a file from local drive:

rm filename

Delete a file from HDFS:

hadoop fs -rm -r /home/jwu/chapter2/sample.txt

Compile Java files:

javac -cp src/:hadoop-common-2.6.1.jar:hadoop-mapreduce-client-core-2.6.1.jar:commons-cli-2.0.jar -d . MaxTemperature.java MaxTemperatureReducer.java MaxTemperatureMapper.java

Create a Jar file:

jar -cvf max-temperature.jar MaxTemperature\*.class

*(-c – create new archive; -v – generate verbose output on standard output; -f – specify archive file name)*

Run a Jar file

(Need to delete the classes; otherwise the system is running the main class instead of Jar; this indicates Amazon by default sets “export HADOOP\_CLASSPATH=/home/Hadoop”)

hadoop jar max-temperature.jar MaxTemperature /user/hadoop/sample.txt.gz /user/hadoop/output16

hadoop jar max-temperature.jar MaxTemperature s3://itm6273weather/input1 output5

Display the output on screen:

hdfs dfs -cat /user/hadoop/chapter2/output3/part-r-00000

hadoop fs -cat /user/hadoop/chapter2/output2/part-r-00000

**Commands for Chapter 2 - CSUEB**

CSUEB Hadoop Host Address:

134.154.190.204

Compile Java files:

javac -classpath /home/jwu/jar4compile/hadoop-common-2.6.1.jar:/home/jwu/jar4compile/hadoop-mapreduce-client-core-2.6.1.jar:/home/jwu/jar4compile/commons-cli-2.0.jar -d . MaxTemperature.java MaxTemperatureMapper.java MaxTemperatureReducer.java

Create a Jar file:

jar -cvf max-temperature.jar ./MaxTemperature\*.class

Make a directory in HDFS:

hdfs dfs -mkdir /home/jwu/chapter2/

Delete a directory or a file from HDFS:

hadoop fs -rm -r /home/jwu/chapter2/sample.txt

*(The -r option is equivalent to –R; deletes the directory and any content under it recursively.)*

Copy a file from local drive to HDFS:

hdfs dfs -copyFromLocal /home/jwu/chapter2/sample.txt /home/jwu/chapter2/sample.txt

hdfs dfs -copyFromLocal /home/jwu/sample.txt.gz /home/jwu/chapter2

Run a Jar file on Hadoop:

hadoop jar /home/jwu/chapter2/max-temperature.jar MaxTemperature /home/jwu/chapter2/sample.txt.gz /home/jwu/chapter2/output3/

Display the output on screen:

hdfs dfs -cat /home/jwu/chapter2/output3/part-r-00000

hadoop fs -cat /home/jwu/chapter2/output2/part-r-00000

*(The above two commands are the same.)*