

## Steps for running Word count- Map-Reduce example-

### 1. format hadoop namenode

home/hduser: ~\$ **hadoop namenode -format**

Note that hadoop namenode -format command should be executed once before we start using Hadoop. If this command is executed again after Hadoop has been used, it'll destroy all the data on the Hadoop file system.

1. Create directory on home WordCountAss – place **WordCount.java** to this directory
2. Create directory on home WordCountAss / input – to place a file '**input.txt**'
3. Create directory on home WordCountAss / Wc\_Classes – to place all class files of compiled WordCount.java

### 2. start all dfs and yarn deomans

home/hduser: ~\$ **start-all.sh**

home/hduser: ~\$ **jps**

*[ Make sure that all dfs and yarn deomans are running, if not stop all deomans and then remove and recreate datanode and namenode diecrtries in hadoop space]*

### 3. Set classpath

home/hduser: ~\$ **export HADOOP\_CLASSPATH=\$(hadoop classpath)**

home/hduser: ~\$ **echo \$HADOOP\_CLASSPATH**

### 4. Create directotries on hadoop file system

home/hduser: ~\$ **hadoop dfs -mkdir /wc**

home/hduser: ~\$ **hadoop dfs -mkdir /wc /wc/input**

### 5. Place **input.txt** on **hadoop file system**

home/hduser: ~\$ **hadoop fs -put '/home/hduser/WordCountAss/input/input.txt' /wc/input**

### 6. Check on namenode web interface if file is copied on hadoop file system

### 7. Compile WordCount.java

home/hduser: ~\$ **cd WordCountAss**

home/hduser/WordCountAss: ~\$ **javac -classpath**

**\${HADOOP\_CLASSPATH}-d'/home/hduser/WordCountAss/WC\_classes'**  
**'/home/hduser/WC/WordCount.java'**

### 8. Create jar file

home/hduser/WordCountAss: ~\$ **jar cvf wc2.jar -C WC\_classes/.**

### 9. execute jar.

home/hduser/WordCountAss: ~\$ **hadoop jar /home/hduser/WordCountAss/wc2.jar**

**WordCount /wc/input /wc/output**

### 10. Successful execution, observe the output at hadoop file system and copy the the same to view on terminal.

home/hduser/WordCountAss: ~\$ **hadoop dfs -cat /wc/output/\***

### 11. stop all deamons

home/hduser: ~\$ **stop-all.sh**