Hadoop: Hands-On: Running WordCount

Running a WordCount Job:

Command 1: Create a directory in HDFS to store your input file

```
$hdfsdfs -mkdir /user/training/inputfolder1
```

Command 2: Upload the file from the local directory to the input folder in HDFS

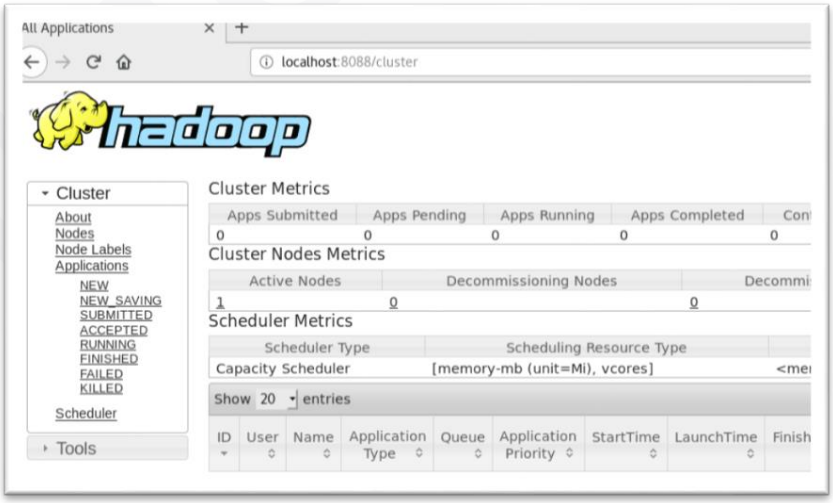
```
$hdfsdfs -put <your local input file address> /user/training/inputfolder1
```

Command 3: Run your WordCount job and specify an output folder in HDFS to store the output

```
$hadoop jar WordCount.jar WordCount
/user/training/inputfolder1/user/training/outputfolder1
```

Command 4: Check the status of the job using the YARN UI in the web browser

```
Enter 'localhost:8088' in the URL bar if accessing through VM
Enter '<public IP of the server>:8088' in the URL bar if accessing remotely (AWS~PuTTy)
```



Command 5: List the result of the WordCount operation upon its successful execution

```
$hadoop fs -ls <your output directory>
```

```
[hadoop@localhost ~]$ hadoop fs -ls /training/output1
2020-02-04 06:29:11,787 WARN util.NativeCodeLoader: Unable to load native-hadoop
 library for your platform... using builtin-java classes where applicable
Found 2 items
-rw-r--r--   1 hadoop supergroup          0 2020-02-04 05:25 /training/output1/_
SUCCESS
-rw-r--r--   1 hadoop supergroup     721220 2020-02-04 05:25 /training/output1/p
art-r-00000
```

Command 6: View the final result

```
$hadoop fs -cat /user/training/outputfolder1/part-r-00000
OR
$hadoop fs -cat <your output file address based on the 'ls' result>
```

```
trample 2
trampled        1
tranc'd.        1
trance. 2
tranquil        1
tranquillity,   1
transcendence;  1
transcends.     1
transcribe      1
transcription   2
transferred.    1
transfigur'd    1
transfix        1
transform       5
transform'd     5
transformation  2
transformation! 2
transformation, 1
transformation. 1
transformations 1
transformed     3
transformed!    1
transformed,    2
transgress'd    1
```

```
view'd. 1
view,   16
view.   4
view;   5
viewed, 1
viewest,        2
vieweth 1
viewing 4
viewing,        1
viewless        1
views!  2
vigil   1
vigilance       2
vigilance,      1
vigilant        2
vigilant.       1
vigitant,       1
vigour  9
vigour, 2
viii    1
vile    99
vile!   2
vile,   9
vile-   1
```

