Session 3: YARN

Assignment 1
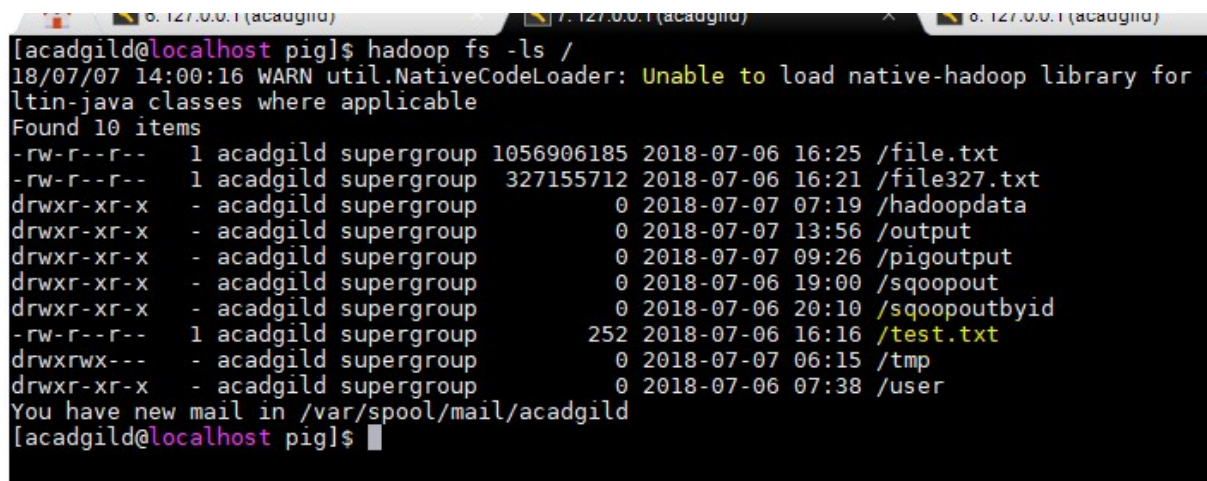
Task 1:

Execute WordMedian , WordMean , WordStandardDeviation programs using hadoop-mapreduce-examples-2.9.0.jar file present in your AcadGild VM.

Refer path below.

/home/acadgild/install/hadoop/hadoop-2.6.5/share/hadoop/mapreduce

Step:1 – Check test.txt file is present in HDFS.

Step:2 : - Check the contain of test.txt

Now we will be perform wordmedian, wordmean and wordstandarddeviation operation on text.txt file using map reduce example jar which is present in VM.

1. WordMean

2.WordMedian

3.WordStandardDeviation

6. 127.0.0.1 (acadgild)   ×   7. 127.0.0.1 (acadgild)   ×   8. 127.0.0.1 (acadgild)

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Deleted /output
[acadgild@localhost pig]$ hadoop jar $HADOOP_HOME/share/hadoop/mapreduce/hadoop-mapreduce-examples-2.6.5.jar word
standarddeviation /test.txt /output
18/07/07 13:55:56 WARN util.NativeCodeLoader: Unable to load native-hadoop library for your platform... using bui
ltin-java classes where applicable
18/07/07 13:55:59 INFO client.RMProxy: Connecting to ResourceManager at localhost/127.0.0.1:8032
18/07/07 13:56:02 INFO input.FileInputFormat: Total input paths to process : 1
18/07/07 13:56:02 INFO mapreduce.JobSubmitter: number of splits:1
18/07/07 13:56:03 INFO mapreduce.JobSubmitter: Submitting tokens for job: job_1530834392057_0033
18/07/07 13:56:04 INFO impl.YarnClientImpl: Submitted application application_1530834392057_0033
18/07/07 13:56:04 INFO mapreduce.Job: The url to track the job: http://localhost:8088/proxy/application_153083439
2057_0033/
18/07/07 13:56:04 INFO mapreduce.Job: Running job: job_1530834392057_0033
18/07/07 13:56:22 INFO mapreduce.Job: Job job_1530834392057_0033 running in uber mode : false
18/07/07 13:56:22 INFO mapreduce.Job:  map 0% reduce 0%
18/07/07 13:56:35 INFO mapreduce.Job:  map 100% reduce 0%
18/07/07 13:56:46 INFO mapreduce.Job:  map 100% reduce 100%
18/07/07 13:56:47 INFO mapreduce.Job: Job job_1530834392057_0033 completed successfully
18/07/07 13:56:48 INFO mapreduce.Job: Counters: 49
        File System Counters
                FILE: Number of bytes read=56
                FILE: Number of bytes written=215573
                FILE: Number of read operations=0
                FILE: Number of large read operations=0
                FILE: Number of write operations=0
                HDFS: Number of bytes read=347
                HDFS: Number of bytes written=31
                HDFS: Number of read operations=6
                HDFS: Number of large read operations=0
                HDFS: Number of write operations=2
        Job Counters
                Launched map tasks=1
                Launched reduce tasks=1
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                Physical memory (bytes) snapshot=324616192
                Virtual memory (bytes) snapshot=4122288128
                Total committed heap usage (bytes)=222429184
        Shuffle Errors
                BAD_ID=0
                CONNECTION=0
                IO_ERROR=0
                WRONG_LENGTH=0
                WRONG_MAP=0
                WRONG_REDUCE=0
        File Input Format Counters
                Bytes Read=252
        File Output Format Counters
                Bytes Written=31
The standard deviation is: 1.939071942966531
You have new mail in /var/spool/mail/acadgild
[acadgild@localhost pig]$
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```
                    WRONG_LENGTH=0
                    WRONG_MAP=0
                    WRONG_REDUCE=0
           File Input Format Counters
                    Bytes Read=252
           File Output Format Counters
                    Bytes Written=31
The standard deviation is: 1.939071942966531
You have new mail in /var/spool/mail/acadgild
[acadgild@localhost pig]$ hadoop fs -cat /output/part-r-00000
18/07/07 14:06:52 WARN util.NativeCodeLoader: Unable to load native-hadoop librar
ltin-java classes where applicable
count   60
length  192
square  840
[acadgild@localhost pig]$
```