# Yarn

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Course: Big Data Hadoop & Spark Training

Assignment. – 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

Solution:

The Screenshots are as follows:

[acadgild@localhost ~]\$ hadoop fs -cat /user/acadgild/hadoop/word-count.txt 18/11/14 01:03:44 WARN util.NativeCodeLoader: Unable to load native-hadoop libra ry for your platform... using builtin-java classes where applicable My Name is Shashank Dixit. I am learning Big Data Hadoop and Spark. My mentor is Magesh.

#### 1) Used the suggested jar to calculate wordmedian that gave the output as 4.

```
[acadqild@localhost sbin] hadoop jar /home/acadqild/install/hadoop/hadoop-2.6.5/share/hadoop/mapreduce/hadoop-mapreduce-exam
ples-2.6.5.jar wordmedian /user/acadgild/hadoop/word-count.txt /output
18/11/14 01:11:22 WARN util.NativeCodeLoader: Unable to load native-hadoop library for your platform... using builtin-java cl
asses where applicable
18/11/14 01:11:27 INFO client.RMProxy: Connecting to ResourceManager at localhost/127.0.0.1:8032
18/11/14 01:11:32 WARN mapreduce.JobResourceUploader: Hadoop command-line option parsing not performed. Implement the Tool in
terface and execute your application with ToolRunner to remedy this.
18/11/14 01:11:36 INFO input.FileInputFormat: Total input paths to process : 1
18/11/14 01:11:36 INFO mapreduce.JobSubmitter: number of splits:1
18/11/14 01:11:38 INFO mapreduce.JobSubmitter: Submitting tokens for job: job 1542135100691 0001
18/11/14 01:11:41 INFO impl.YarnClientImpl: Submitted application application_1542135100691_0001
18/11/14 01:11:42 INFO mapreduce.Job: The url to track the job: http://localhost:8088/proxy/application 1542135100691 0001/
18/11/14 01:11:42 INFO mapreduce.Job: Running job: job 1542135100691 0001
^[[B18/11/14 01:13:00 INFO mapreduce.Job: Job job_1542135100691_0001 running in uber mode : false
18/11/14 01:13:00 INFO mapreduce.Job: map 0% reduce 0%
18/11/14 01:13:41 INFO mapreduce.Job: map 100% reduce 0%
18/11/14 01:14:28 INFO mapreduce.Job: map 100% reduce 100%
18/11/14 01:14:34 INFO mapreduce. Job: Job job 1542135100691 0001 completed successfully
18/11/14 01:14:39 INFO mapreduce.Job: Counters: 49
       File System Counters
               FILE: Number of bytes read=76
               FILE: Number of bytes written=215243
               FILE: Number of read operations=0
               FILE: Number of large read operations=0
               FILE: Number of write operations=0
               HDFS: Number of bytes read=211
               HDFS: Number of bytes written=28
               HDFS: Number of read operations=6
               UDCC. Number of large
```

```
rocat committee meap usage (bytes)=1/0004400
        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=89
        File Output Format Counters
                Bytes Written=28
18/11/14 01:14:40 INFO mapred.ClientServiceDelegate: Application state is completed. FinalApplicationStatus
cting to job history server
The median is: 4
You have new mail in /var/spool/mail/acadgild
[acadgild@localhost sbin]$ hadoop
```

Aiso checked the generated output fie which gave below output:

## 2) Executed the same jar to calculate the wordmean:

 $[acadgild@localhost\ sbin]\ hadoop\ jar\ /home/acadgild/install/hadoop/hadoop-2.6.5/share/hadoop/mapreduce/hadoop-mapreduce-exam\ ples-2.6.5.jar\ wordmean\ /user/acadgild/hadoop/word-count.txt\ /output\ wordmean\ /user/acadgild/hadoop/word-count.txt\ /user/acadgild/hadoop/word$ 

#### Output Shown on screen:

18/11/14 01:45:12 INFO mapred.ClientServiceDelegate: Application state is completed. FinalApplicationStatus=SUCCEEDED. Redire cting to job history server
The mean is: 4.235294117647059
You have new mail in /var/spool/mail/acadgild

### **Output from fle**

[acadgild@localhost sbin]\$ hadoop fs -cat /output\_wordmean/part-r-00000
18/11/14 01:53:34 WARN util.NativeCodeLoader: Unable to load native-hadoop library for your platform... using builtin-java casses where applicable count 17
length 72
You have new mail in /var/spool/mail/acadgild
[acadgild@localhost sbin]\$ | |

3) Executed the same jar to calculate the wordstandarddeviaton:

BIG DATA DEVELOPER ACADGILD

[acadgild@localhost sbin]\$ hadoop jar /home/acadgild/install/hadoop/hadoop-2.6.5/share/hadoop/mapreduce/hadoop-mapreduce-exam ples-2.6.5.jar wordstandarddeviation /user/acadgild/hadoop/word-count.txt /output sd

#### Output Shown on screen:

File Output Format Counters

Bytes Written=30

18/11/14 02:00:23 INFO mapred.ClientServiceDelegate: Application state cting to job history server

The standard deviation is: 2.2629863601966287

You have new mail in /var/spool/mail/acadgild

[acadgild@localhost sbin]\$

#### **Output from fle:**

18/11/14 02:00:23 INFO mapred.ClientServiceDelegate: Application stat cting to job history server
The standard deviation is: 2.2629863601966287
You have new mail in /var/spool/mail/acadgild
[acadgild@localhost sbin]\$ hadoop fs -cat /output\_sd/part-r-00000
18/11/14 02:01:48 WARN util.NativeCodeLoader: Unable to load native-hasses where applicable count 17
length 72
square 392
You have new mail in /var/spool/mail/acadgild
[acadgild@localhost sbin]\$ ■