**NAME: Shashank Chandrashekar**

**STUDENT ID: 801101040**

Using username "hadoop".

Authenticating with public key "imported-openssh-key"

Passphrase for key "imported-openssh-key":

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\_| ( / Amazon Linux AMI

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https://aws.amazon.com/amazon-linux-ami/2018.03-release-notes/

6 package(s) needed for security, out of 8 available

Run "sudo yum update" to apply all updates.

EEEEEEEEEEEEEEEEEEEE MMMMMMMM MMMMMMMM RRRRRRRRRRRRRRR

E::::::::::::::::::E M:::::::M M:::::::M R::::::::::::::R

EE:::::EEEEEEEEE:::E M::::::::M M::::::::M R:::::RRRRRR:::::R

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E:::::EEEEEEEEEE M:::::M M:::M M:::M M:::::M R:::RRRRRR:::::R

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E::::::::::::::::::E M:::::M M:::::M RR::::R R::::R

EEEEEEEEEEEEEEEEEEEE MMMMMMM MMMMMMM RRRRRRR RRRRRR

[hadoop@ip-172-31-36-138 ~]$ aws s3 cp s3://801101040/Untitled.jar /home/hadoop

download: s3://801101040/Untitled.jar to ./Untitled.jar

[hadoop@ip-172-31-36-138 ~]$ hadoop fs -put Untitled.jar /user/hadoop/

[hadoop@ip-172-31-36-138 ~]$ [hadoop@ip-172-31-36-138 ~]$ aws s3 cp s3://801101040/Untitled.jar /home/hadoop

-bash: [hadoop@ip-172-31-36-138: command not found

[hadoop@ip-172-31-36-138 ~]$ download: s3://801101040/Untitled.jar to ./Untitled.jar

-bash: download:: command not found

[hadoop@ip-172-31-36-138 ~]$ clear

[hadoop@ip-172-31-36-138 ~]$ hadoop fs -ls /user/hadoop/

Found 1 items

-rw-r--r-- 1 hadoop hadoop 4490 2020-02-0102:44 /user/hadoop/Untitled.jar

[hadoop@ip-172-31-36-138 ~]$ ls

Untitled.jar

[hadoop@ip-172-31-36-138 ~]$ pwd

/home/hadoop

[hadoop@ip-172-31-36-138 ~]$ ls

Untitled.jar

[hadoop@ip-172-31-36-138 ~]$ aws s3 cp s3://801101040/mammals.txt /home/hadoop

download: s3://801101040/mammals.txt to ./mammals.txt

[hadoop@ip-172-31-36-138 ~]$ ls

mammals.txt Untitled.jar

[hadoop@ip-172-31-36-138 ~]$ hadoop jar Untitled.jar WordCount /home/hadoop/mammals.txt /user/hadoop/outputv1

Exception in thread "main" java.lang.ClassNotFoundException: WordCount

at java.net.URLClassLoader.findClass(URLClassLoader.java:382)

at java.lang.ClassLoader.loadClass(ClassLoader.java:424)

at java.lang.ClassLoader.loadClass(ClassLoader.java:357)

at java.lang.Class.forName0(Native Method)

at java.lang.Class.forName(Class.java:348)

at org.apache.hadoop.util.RunJar.run(RunJar.java:232)

at org.apache.hadoop.util.RunJar.main(RunJar.java:153)

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[hadoop@ip-172-31-36-138 ~]$ hadoop jar Untitled.jar org.wc.WordCount s3://801101040/mammals.txt s3://801101040/Output1

20/02/0103:07:33 INFO client.RMProxy: Connecting to ResourceManager at ip-172-31-36-138.us-east-2.compute.internal/172.31.36.138:8032

20/02/0103:07:35 WARN mapreduce.JobResourceUploader: Hadoop command-line option parsing not performed. Implement the Tool interface and execute your application with ToolRunner to remedy this.

20/02/0103:07:35 INFO input.FileInputFormat: Total input files to process : 1

20/02/0103:07:35 INFO lzo.GPLNativeCodeLoader: Loaded native gpl library

20/02/0103:07:35 INFO lzo.LzoCodec: Successfully loaded & initialized native-lzo library [hadoop-lzo rev 7e6c862e89bc8db32c064454a55af74ddff73bae]

20/02/0103:07:35 INFO mapreduce.JobSubmitter: number of splits:1

20/02/0103:07:35 INFO mapreduce.JobSubmitter: Submitting tokens for job: job\_1567996798060\_0004

20/02/0103:07:36 INFO impl.YarnClientImpl: Submitted application application\_1567996798060\_0004

20/02/0103:07:36 INFO mapreduce.Job: The url to track the job: http://ip-172-31-36-138.us-east-2.compute.internal:20888/proxy/application\_1567996798060\_0004/

20/02/0103:07:36 INFO mapreduce.Job: Running job: job\_1567996798060\_0004

20/02/0103:07:47 INFO mapreduce.Job: Job job\_1567996798060\_0004 running in uber mode : false

20/02/0103:07:47 INFO mapreduce.Job: map 0% reduce 0%

20/02/0103:07:56 INFO mapreduce.Job: map 100% reduce 0%

20/02/0103:08:07 INFO mapreduce.Job: map 100% reduce 33%

20/02/0103:08:19 INFO mapreduce.Job: map 100% reduce 100%

20/02/0103:08:20 INFO mapreduce.Job: Job job\_1567996798060\_0004 completed successfully

20/02/0103:08:20 INFO mapreduce.Job: Counters: 55

File System Counters

FILE: Number of bytes read=52045

FILE: Number of bytes written=784905

FILE: Number of read operations=0

FILE: Number of large read operations=0

FILE: Number of write operations=0

HDFS: Number of bytes read=97

HDFS: Number of bytes written=0

HDFS: Number of read operations=1

HDFS: Number of large read operations=0

HDFS: Number of write operations=0

S3: Number of bytes read=200166

S3: Number of bytes written=59550

S3: Number of read operations=0

S3: Number of large read operations=0

S3: Number of write operations=0

Job Counters

Killed reduce tasks=1

Launched map tasks=1

Launched reduce tasks=3

Data-local map tasks=1

Total time spent by all maps in occupied slots (ms)=335712

Total time spent by all reduces in occupied slots (ms)=3967296

Total time spent by all map tasks (ms)=6994

Total time spent by all reduce tasks (ms)=41326

Total vcore-milliseconds taken by all map tasks=6994

Total vcore-milliseconds taken by all reduce tasks=41326

Total megabyte-milliseconds taken by all map tasks=10742784

Total megabyte-milliseconds taken by all reduce tasks=126953472

Map-Reduce Framework

Map input records=4300

Map output records=30469

Map output bytes=312006

Map output materialized bytes=52033

Input split bytes=97

Combine input records=30469

Combine output records=5768

Reduce input groups=5768

Reduce shuffle bytes=52033

Reduce input records=5768

Reduce output records=5768

Spilled Records=11536

Shuffled Maps =3

Failed Shuffles=0

Merged Map outputs=3

GC time elapsed (ms)=1412

CPU time spent (ms)=10540

Physical memory (bytes) snapshot=1701879808

Virtual memory (bytes) snapshot=17300680704

Total committed heap usage (bytes)=1502609408

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=200166

File Output Format Counters

Bytes Written=59550