Md Yaseen Ahmed 1BM19CS404

mdyaseen@test:~\$ su - hdoop

Password:

hdoop@test:~\$ cd \$HADOOP_HOME hdoop@test:~/hadoop-3.2.1\$ cd ./sbin

hdoop@test:~/hadoop-3.2.1/sbin\$./start-all.sh

WARNING: Attempting to start all Apache Hadoop daemons as hdoop in 10 seconds.

WARNING: This is not a recommended production deployment configuration.

WARNING: Use CTRL-C to abort. Starting namenodes on [localhost]

Starting datanodes

Starting secondary namenodes [test]

2021-05-11 12:48:32,204 WARN util.NativeCodeLoader: Unable to load native-hadoop library for your platform... using builtin-java classes where applicable

Starting resourcemanager Starting nodemanagers

hdoop@test:~/hadoop-3.2.1/sbin\$ jps

2418 DataNode

2611 SecondaryNameNode

2281 NameNode

3501 Jps

2813 ResourceManager

2943 NodeManager

hdoop@test:~/hadoop-3.2.1/sbin\$ hadoop fs -mkdir -p lab6

2021-05-11 12:55:59,418 WARN util.NativeCodeLoader: Unable to load native-hadoop library for your platform... using builtin-java classes where applicable

hdoop@test:~/hadoop-3.2.1/sbin\$ hadoop fs -ls

2021-05-11 12:56:08,256 WARN util.NativeCodeLoader: Unable to load native-hadoop library for your platform... using builtin-java classes where applicable

Found 2 items

drwxr-xr-x - hdoop supergroup 0 2021-05-11 12:56 lab6 drwxr-xr-x - hdoop supergroup 0 2021-05-11 06:29 sampleDir

hdoop@test:~/hadoop-3.2.1/sbin\$ hadoop dfs -put /home/mdyaseen/Desktop/wc.txt lab6/input.txt

WARNING: Use of this script to execute dfs is deprecated.

WARNING: Attempting to execute replacement "hdfs dfs" instead.

2021-05-11 13:04:06,952 WARN util.NativeCodeLoader: Unable to load native-hadoop library for your platform... using builtin-java classes where applicable

2021-05-11 13:04:08,096 INFO sasl.SaslDataTransferClient: SASL encryption trust check:

localHostTrusted = false, remoteHostTrusted = false

hdoop@test:~/hadoop-3.2.1/sbin\$ hadoop fs -cat lab6/input.txt

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2021-05-11 13:04:52,787 WARN util.NativeCodeLoader: Unable to load native-hadoop library for your platform... using builtin-java classes where applicable

2021-05-11 13:04:53,886 INFO sasl.SaslDataTransferClient: SASL encryption trust check:

localHostTrusted = false, remoteHostTrusted = false

Deer Bear River

Car Car River

Deer Car Bear

hdoop@test:~/hadoop-3.2.1/sbin\$ hadoop fs -ls lab6

2021-05-11 13:05:08,237 WARN util.NativeCodeLoader: Unable to load native-hadoop library for your platform... using builtin-java classes where applicable

Found 1 items

-rw-r--r-- 1 hdoop supergroup

44 2021-05-11 13:04 lab6/input.txt

hdoop@test:~/hadoop-3.2.1/sbin\$ hadoop jar /home/mdyaseen/Desktop/wordcount.jar wordcount lab6/ /lab6_output

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

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

at java.lang.ClassLoader.loadClass(ClassLoader.java:418)

at java.lang.ClassLoader.loadClass(ClassLoader.java:351)

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

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

at org.apache.hadoop.util.RunJar.run(RunJar.java:316)

at org.apache.hadoop.util.RunJar.main(RunJar.java:236)

hdoop@test:~/hadoop-3.2.1/sbin\$ hadoop jar /home/mdyaseen/Desktop/wordcount.jar wordcount.wordcount lab6/ /lab6_output

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

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

at java.lang.ClassLoader.loadClass(ClassLoader.java:418)

at java.lang.ClassLoader.loadClass(ClassLoader.java:351)

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

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

at org.apache.hadoop.util.RunJar.run(RunJar.java:316)

at org.apache.hadoop.util.RunJar.main(RunJar.java:236)

hdoop@test:~/hadoop-3.2.1/sbin\$ hadoop jar /home/mdyaseen/Desktop/wordcount.jar WordCount lab6/ /lab6_output

2021-05-11 13:16:27,874 WARN util.NativeCodeLoader: Unable to load native-hadoop library for your platform... using builtin-java classes where applicable

2021-05-11 13:16:28,911 INFO client.RMProxy: Connecting to ResourceManager at /127.0.0.1:8032

2021-05-11 13:16:29,553 INFO mapreduce.JobResourceUploader: Disabling Erasure Coding for path: /tmp/hadoop-yarn/staging/hdoop/.staging/job_1620717524992_0001

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```
2021-05-11 13:16:29,752 INFO sasl.SaslDataTransferClient: SASL encryption trust check:
localHostTrusted = false, remoteHostTrusted = false
2021-05-11 13:16:29,987 INFO input.FileInputFormat: Total input files to process: 1
2021-05-11 13:16:30,057 INFO sasl.SaslDataTransferClient: SASL encryption trust check:
localHostTrusted = false, remoteHostTrusted = false
2021-05-11 13:16:30,112 INFO sasl.SaslDataTransferClient: SASL encryption trust check:
localHostTrusted = false, remoteHostTrusted = false
2021-05-11 13:16:30,145 INFO mapreduce. Job Submitter: number of splits:1
2021-05-11 13:16:30,436 INFO sasl.SaslDataTransferClient: SASL encryption trust check:
localHostTrusted = false, remoteHostTrusted = false
2021-05-11 13:16:30,496 INFO mapreduce. JobSubmitter: Submitting tokens for job:
job_1620717524992 0001
2021-05-11 13:16:30,496 INFO mapreduce. JobSubmitter: Executing with tokens: []
2021-05-11 13:16:30,833 INFO conf. Configuration: resource-types.xml not found
2021-05-11 13:16:30,833 INFO resource. Resource Utils: Unable to find 'resource-types.xml'.
2021-05-11 13:16:31,178 INFO impl. YarnClientImpl: Submitted application
application_1620717524992_0001
2021-05-11 13:16:31,317 INFO mapreduce. Job: The url to track the job:
http://test:8088/proxy/application 1620717524992 0001/
2021-05-11 13:16:31,318 INFO mapreduce.Job: Running job: job_1620717524992_0001
2021-05-11 13:16:43,642 INFO mapreduce.Job: Job job_1620717524992_0001 running in uber
mode: false
2021-05-11 13:16:43,648 INFO mapreduce.Job: map 0% reduce 0%
2021-05-11 13:16:49,771 INFO mapreduce. Job: map 100% reduce 0%
2021-05-11 13:16:55,843 INFO mapreduce.Job: map 100% reduce 100%
2021-05-11 13:16:56,887 INFO mapreduce. Job job 1620717524992 0001 completed
successfully
2021-05-11 13:16:57,020 INFO mapreduce.Job: Counters: 54
      File System Counters
             FILE: Number of bytes read=50
             FILE: Number of bytes written=451185
             FILE: Number of read operations=0
             FILE: Number of large read operations=0
             FILE: Number of write operations=0
             HDFS: Number of bytes read=156
             HDFS: Number of bytes written=28
             HDFS: Number of read operations=8
             HDFS: Number of large read operations=0
             HDFS: Number of write operations=2
             HDFS: Number of bytes read erasure-coded=0
      Job Counters
             Launched map tasks=1
             Launched reduce tasks=1
             Data-local map tasks=1
```

Total time spent by all maps in occupied slots (ms)=3750

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Total time spent by all reduces in occupied slots (ms)=3327

Total time spent by all map tasks (ms)=3750

Total time spent by all reduce tasks (ms)=3327

Total vcore-milliseconds taken by all map tasks=3750

Total vcore-milliseconds taken by all reduce tasks=3327

Total megabyte-milliseconds taken by all map tasks=3840000

Total megabyte-milliseconds taken by all reduce tasks=3406848

Map-Reduce Framework

Map input records=3

Map output records=9

Map output bytes=80

Map output materialized bytes=50

Input split bytes=112

Combine input records=9

Combine output records=4

Reduce input groups=4

Reduce shuffle bytes=50

Reduce input records=4

Reduce output records=4

Spilled Records=8

Shuffled Maps =1

Failed Shuffles=0

Merged Map outputs=1

GC time elapsed (ms)=120

CPU time spent (ms)=1090

Physical memory (bytes) snapshot=346484736

Virtual memory (bytes) snapshot=4967919616

Total committed heap usage (bytes)=230821888

Peak Map Physical memory (bytes)=224583680

Peak Map Virtual memory (bytes)=2479607808

Peak Reduce Physical memory (bytes)=121901056

Peak Reduce Virtual memory (bytes)=2488311808

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=44

File Output Format Counters

Bytes Written=28

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WARNING: Use of this script to execute dfs is deprecated.

WARNING: Attempting to execute replacement "hdfs dfs" instead.

2021-05-11 13:17:19,627 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 hdoop supergroup 0 2021-05-11 13:16 /lab6_output/_SUCCESS 28 2021-05-11 13:16 /lab6_output/part-r-00000

hdoop@test:~/hadoop-3.2.1/sbin\$ hadoop dfs -cat /lab6_output/part-r-00000

WARNING: Use of this script to execute dfs is deprecated.

WARNING: Attempting to execute replacement "hdfs dfs" instead.

2021-05-11 13:18:08,517 WARN util.NativeCodeLoader: Unable to load native-hadoop library for your platform... using builtin-java classes where applicable

2021-05-11 13:18:09,598 INFO sasl.SaslDataTransferClient: SASL encryption trust check:

localHostTrusted = false, remoteHostTrusted = false

Bear 2 Car 3

Deer 2

River 2

hdoop@test:~/hadoop-3.2.1/sbin\$

```
Adjusted the content of the content
```

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```
### Additional Control of the Contro
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```
Combine output records=4
Reduce Input groups=4
Reduce Unput process=6
Reduce Unput records=4
Reduce output records=4
Reduce output records=4
Reduce output records=4
Reduce output records=4
Shaffiled Baps =1
Failed Shaffies=6
Rerged Map outputs=1
CC time elapsed (ms)=120
CPU time spent (ms)=0000
Rerged Map outputs=1
CC time elapsed (ms)=120
CPU time spent (ms)=0000
Rerged Map outputs=1
CC time elapsed (ms)=120
CPU time spent (ms)=0000
Rerged Map outputs=1
COUNTION (bytes)=224580500
Post Map Virtual memory (bytes)=22458051000
Rerged Reduce Virtual memory (bytes)=2480511000
Rerged Reduce Virtual memory (bytes)=248051000
Reged R
```