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Roll No – I3226

Div - 2

hdoop@hadoop:~$ <mark>sudo mkdir Test</mark>

[sudo] password for hdoop:

hdoop@hadoop:~$ <mark>sudo chmod -R 777 Test</mark>

hdoop@hadoop:~$ <mark>cd Test/</mark>

hdoop@hadoop:~/Test$ <mark>sudo chmod +r *.*</mark>

hdoop@hadoop:~/Test$ <mark>export CLASSPATH="$HADOOP_HOME/share/hadoop/mapreduce/hadoop-mapreduce-client-core-3.2.3.jar:$HADOOP_HOME/share/hadoop/mapreduce/hadoop-mapreduce-client-common-3.2.3.jar:$HADOOP_HOME/share/hadoop/common/hadoop-common-3.2.3.jar:~/Test/SalesCountry/*:$HADOOP_HOME/lib/*"</mark>

hdoop@hadoop:~/Test$ <mark>javac -d . SalesMapper.java SalesCountryReducer.java SalesCountryDriver.java</mark>

hdoop@hadoop:~/Test$ <mark>sudo gedit Manifest.txt</mark>

(gedit:5691): Tepl-WARNING **: 21:09:32.008: GVfs metadata is not supported. Fallback to TeplMetadataManager. Either GVfs is not correctly installed or GVfs metadata are not supported on this platform. In the latter case, you should configure Tepl with --disable-gvfs-metadata.

hdoop@hadoop:~/Test$ <mark>jar cfm Test1.jar Manifest.txt SalesCountry/*.class</mark>

<mark>hdoop@hadoop:~/Test$ ls</mark>

<mark>access_log_short.csv hadoop-mapreduce-example-file.txt Manifest.txt SalesCountry SalesCountryDriver.java SalesCountryReducer.java SalesMapper.java Test1.jar</mark>

hdoop@hadoop:~/Test$ <mark>start-all.sh</mark>

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]

localhost: namenode is running as process 3432. Stop it first and ensure /tmp/hadoop-hdoop-namenode.pid file is empty before retry.

Starting datanodes

localhost: datanode is running as process 3565. Stop it first and ensure /tmp/hadoop-hdoop-datanode.pid file is empty before retry.

Starting secondary namenodes [atharv]

atharv: secondarynamenode is running as process 3769. Stop it first and ensure /tmp/hadoop-hdoop-secondarynamenode.pid file is empty before retry.

2023-04-14 21:12:27,533 WARN util.NativeCodeLoader: Unable to load native-hadoop library for your platform... using builtin-java classes where applicable

Starting resourcemanager

resourcemanager is running as process 4040. Stop it first and ensure /tmp/hadoop-hdoop-resourcemanager.pid file is empty before retry.

Starting nodemanagers

localhost: nodemanager is running as process 4183. Stop it first and ensure /tmp/hadoop-hdoop-nodemanager.pid file is empty before retry.

hdoop@hadoop:~/Test$ start-yarn.sh

Starting resourcemanager

resourcemanager is running as process 4040. Stop it first and ensure /tmp/hadoop-hdoop-resourcemanager.pid file is empty before retry.

Starting nodemanagers

localhost: nodemanager is running as process 4183. Stop it first and ensure /tmp/hadoop-hdoop-nodemanager.pid file is empty before retry.

hdoop@hadoop:~/Test$ jps

6726 Jps

4183 NodeManager

3432 NameNode

4040 ResourceManager

3769 SecondaryNameNode

3565 DataNode

hdoop@hadoop:~/Test$ ls

access_log_short.csv hadoop-mapreduce-example-file.txt Manifest.txt SalesCountry SalesCountryDriver.java SalesCountryReducer.java SalesMapper.java Test1.jar

hdoop@hadoop:~/Test$ sudo mkdir ~/input5

hdoop@hadoop:~/Test$ sudo cp access_log_short.csv ~/input5/

2023-04-14 21:18:47,226 WARN util.NativeCodeLoader: Unable to load native-hadoop library for your platform... using builtin-java classes where applicable

hdoop@hadoop:~/Test$ /home/hdoop/hadoop-3.2.3/bin/hadoop jar Test1.jar /input5 /output6

2023-04-14 21:20:57,393 WARN util.NativeCodeLoader: Unable to load native-hadoop library for your platform... using builtin-java classes where applicable

2023-04-14 21:20:57,903 INFO client.RMProxy: Connecting to ResourceManager at /127.0.0.1:8032

2023-04-14 21:20:58,079 INFO client.RMProxy: Connecting to ResourceManager at /127.0.0.1:8032

2023-04-14 21:20:58,264 WARN mapreduce.JobResourceUploader: Hadoop command-line option parsing not performed. Implement the Tool interface and execute your application with ToolRunner to remedy this.

2023-04-14 21:20:58,288 INFO mapreduce.JobResourceUploader: Disabling Erasure Coding for path: /tmp/hadoop-yarn/staging/hdoop/.staging/job_1681483522115_0001

2023-04-14 21:20:58,518 INFO mapred.FileInputFormat: Total input files to process : 1

2023-04-14 21:20:58,603 INFO mapreduce.JobSubmitter: number of splits:2

2023-04-14 21:20:58,834 INFO mapreduce.JobSubmitter: Submitting tokens for job: job_1681483522115_0001

2023-04-14 21:20:58,835 INFO mapreduce.JobSubmitter: Executing with tokens: []

2023-04-14 21:20:58,999 INFO conf.Configuration: resource-types.xml not found

2023-04-14 21:20:59,000 INFO resource.ResourceUtils: Unable to find 'resource-types.xml'.

2023-04-14 21:20:59,266 INFO impl.YarnClientImpl: Submitted application application_1681483522115_0001

2023-04-14 21:20:59,374 INFO mapreduce.Job: The url to track the job: http://atharv:8088/proxy/application_1681483522115_0001/

2023-04-14 21:20:59,376 INFO mapreduce.Job: Running job: job_1681483522115_0001

2023-04-14 21:21:05,464 INFO mapreduce.Job: Job job_1681483522115_0001 running in uber mode : false

2023-04-14 21:21:05,465 INFO mapreduce.Job: map 0% reduce 0%

2023-04-14 21:21:10,556 INFO mapreduce.Job: map 100% reduce 0%

2023-04-14 21:21:15,614 INFO mapreduce.Job: map 100% reduce 100%

2023-04-14 21:21:15,637 INFO mapreduce.Job: Job job_1681483522115_0001 completed successfully

2023-04-14 21:21:15,737 INFO mapreduce.Job: Counters: 54

File System Counters

    FILE: Number of bytes read=28065

    FILE: Number of bytes written=764708

    FILE: Number of read operations=0

    FILE: Number of large read operations=0

    FILE: Number of write operations=0

    HDFS: Number of bytes read=156394

    HDFS: Number of bytes written=4065

    HDFS: Number of read operations=11

    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=2

    Launched reduce tasks=1

    Data-local map tasks=2

    Total time spent by all maps in occupied slots (ms)=6351

    Total time spent by all reduces in occupied slots (ms)=2166

    Total time spent by all map tasks (ms)=6351

    Total time spent by all reduce tasks (ms)=2166

    Total vcore-milliseconds taken by all map tasks=6351

    Total vcore-milliseconds taken by all reduce tasks=2166

    Total megabyte-milliseconds taken by all map tasks=6503424

    Total megabyte-milliseconds taken by all reduce tasks=2217984

Map-Reduce Framework

    Map input records=1294

    Map output records=1294

    Map output bytes=25471

    Map output materialized bytes=28071

Input split bytes=202

Combine input records=0

Combine output records=0

Reduce input groups=227

Reduce shuffle bytes=28071

Reduce input records=1294

Reduce output records=227

Spilled Records=2588

Shuffled Maps =2

Failed Shuffles=0

Merged Map outputs=2

GC time elapsed (ms)=129

CPU time spent (ms)=1890

Physical memory (bytes) snapshot=730812416

Virtual memory (bytes) snapshot=8149741568

Total committed heap usage (bytes)=664797184

Peak Map Physical memory (bytes)=273022976

Peak Map Virtual memory (bytes)=2716930048

Peak Reduce Physical memory (bytes)=187277312

Peak Reduce Virtual memory (bytes)=2723434496

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=156192

File Output Format Counters

Bytes Written=4065

hdoop@hadoop:~/Test$ /home/hdoop/hadoop-3.2.3/bin/hdfs dfs -cat /output6/part-00000

2023-04-14 21:22:57,187 WARN util.NativeCodeLoader: Unable to load native-hadoop library for your platform... using builtin-java classes where applicable

10.1.1."236   7

10.1.181."142   14

10.1.232."31   5

10.10.55."142   14

10.102.101."66 1

10.103.184."104   1

10.103.190."81 53

10.103.63."29   1

10.104.73."51   1

10.105.160."183   1

10.108.91."151 1

10.109.21."76   1

10.11.131."40   1

10.111.71."20   8

10.112.227."184   6

10.114.74."30   1

10.115.118."78 1

10.117.224."230   1

10.117.76."22   12

10.118.19."97   1

10.118.250."30 7

10.119.117."132   23

10.119.33."245 1

10.119.74."120 1

10.12.113."198 2	
10.12.219."30 1	
10.120.165."113	1
10.120.207."127	4
10.123.124."47 1	
10.123.35."235 1	
10.124.148."99 1	
10.124.155."234	1
10.126.161."13 7	
10.127.162."239	1
10.128.11."75 10	
10.13.42."232 1	
10.130.195."163	8
10.130.70."80 1	
10.131.163."73 1	
10.131.209."116	5
10.132.19."125 2	
10.133.222."184	12
10.134.110."196	13
10.134.242."87 1	
10.136.84."60 5	
10.14.2."86 8	
10.14.4."151 2	
10.140.139."116	1
10.140.141."1 9	
10.140.67."116 1	
10.141.221."57 5	
10.142.203."173	7
10.143.126."177	32

10.144.147."8	1
10.15.208."56	1
10.15.23."44	13
10.150.212."239	14
10.150.227."16	1
10.150.24."40	13
10.152.195."138	8
10.153.23."63	2
10.153.239."5	25
10.155.95."124	9
10.156.152."9	1
10.157.176."158	1
10.164.130."155	1
10.164.49."105	8
10.164.95."122	10
10.165.106."173	14
10.167.1."145	19
10.169.158."88	1
10.170.178."53	1
10.171.104."4	1
10.172.169."53	18
10.174.246."84	3
10.175.149."65	1
10.175.204."125	15
10.177.216."164	6
10.179.107."170	2
10.181.38."207	13
10.181.87."221	1
10.185.152."140	1

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10.186.56."126 16
10.186.56."183 1
10.187.129."140        6
10.187.177."220        1
10.187.212."83 1
10.187.28."68   1
10.19.226."186 2
10.190.174."142        10
10.190.41."42   5
10.191.172."11 1
10.193.116."91 1
10.194.174."4   7
10.198.138."192        1
10.199.103."248        2
10.199.189."15 1
10.2.202."135   1
10.200.184."212        1
10.200.237."222        1
10.200.9."128   2
10.203.194."139        10
10.205.72."238 2
10.206.108."96 2
10.206.175."236        1
10.206.73."206 7
10.207.190."45 17
10.208.38."46   1
10.208.49."216 4
10.209.18."39   9
10.209.54."187 3
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10.211.47."159	10
10.212.122."173	1
10.213.181."38	7
10.214.35."48	1
10.215.222."114	1
10.216.113."172	48
10.216.134."214	1
10.216.227."195	16
10.217.151."145	10
10.217.32."16	1
10.218.16."176	8
10.22.108."103	4
10.220.112."1	34
10.221.40."89	5
10.221.62."23	13
10.222.246."34	1
10.223.157."186	10
10.225.137."152	1
10.225.234."46	1
10.226.130."133	1
10.229.60."23	1
10.230.191."135	6
10.231.55."231	1
10.234.15."156	1
10.236.231."63	1
10.238.230."235	1
10.239.100."52	1
10.239.52."68	4
10.24.150."4	5

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10.24.67."131    13
10.240.144."183          15
10.240.170."50 1
10.241.107."75 1
10.241.9."187   1
10.243.51."109 5
10.244.166."195          5
10.245.208."15 20
10.246.151."162          3
10.247.111."104          9
10.247.175."65 1
10.247.229."13 1
10.248.24."219 1
10.248.36."117 3
10.249.130."132          3
10.25.132."238 2
10.25.44."247   6
10.250.166."232          1
10.27.134."23   1
10.30.164."32   1
10.30.47."170   8
10.31.225."14   7
10.32.138."48   11
10.32.247."175 4
10.32.55."216   12
10.33.181."9    8
10.34.233."107 1
10.36.200."176 1
10.39.45."70    2
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10.39.94."109	4
10.4.59."153	1
10.4.79."47	15
10.41.170."233	9
10.41.40."17	1
10.42.208."60	1
10.43.81."13	1
10.46.190."95	10
10.48.81."158	5
10.5.132."217	1
10.5.148."29	1
10.50.226."223	9
10.50.41."216	3
10.52.161."126	1
10.53.58."58	1
10.54.242."54	10
10.54.49."229	1
10.56.48."40	16
10.59.42."194	11
10.6.238."124	6
10.61.147."24	1
10.61.161."218	1
10.61.23."77	8
10.61.232."147	3
10.62.78."165	2
10.63.233."249	7
10.64.224."191	13
10.66.208."82	2
10.69.20."85	26

10.70.105."238	1
10.70.238."46	6
10.72.137."86	6
10.72.208."27	1
10.73.134."9	4
10.73.238."200	1
10.73.60."200	1
10.73.64."91	1
10.74.218."123	1
10.75.116."199	1
10.76.143."30	1
10.76.68."178	16
10.78.95."24	8
10.80.10."131	10
10.80.215."116	17
10.81.134."180	1
10.82.30."199	63
10.82.64."235	1
10.84.236."242	1
10.87.209."46	1
10.87.88."214	1
10.88.204."177	1
10.89.178."62	1
10.89.244."42	1
10.94.196."42	1
10.95.136."211	4
10.95.232."88	1
10.98.156."141	1
10.99.228."224	1