## 华东师范大学数据科学与工程学院实验报告

课程名称:分布式编程模型与系统 年级:2019 上机实践成绩:

**指导教师:** 徐辰 **姓名:** 赵煜硕 **学号:** 10195501415

上机实践名称: Spark 部署 上机实践日期:

很顺利无坑

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上机实践名称: Spark 部署 上机实践日期:

ScalaSDK 死活装不上,解决方案:不用 scala

执行

~/spark-2.4.7/bin/spark-submit

--master spark://localhost:7077 --class

cn.edu.ecnu.spark.example.java.wordcount.WordCount

/home/ubuntu/spark-2.4.7/myApp/RddWordCountJava.jar

hdfs://localhost:9000/user/ubuntu/spark\_input hdfs://localhost:9000/user/ubuntu/spark\_output

```
ubuntugl0-24-13-81:-$ ./spark-2.4.7/bin/spark-submit --master spark://localhost:7077 --class cn.edu.ecnu.spark.e
xample.java.wordcount.Wordcount /home/ubuntu/spark-2.4.7/myApp/RddWordCountJava.jar hdfs://127.0.0.1:9000/user/ubuntu/spark_input hdfs://127.0.0.1:9000/user/ubuntu/spark_output
22/05/18 13:09:14 WARN util.Utils: Your hostname, 10-24-13-81 resolves to a loopback address: 127.0.1.1; using 1
0.24.13.81 instead (on interface eth0)
22/05/18 13:09:14 WARN util.Utils: Set SPARK_LOCAL_IP if you need to bind to another address
22/05/18 13:09:15 WARN deploy.SparkSubmit$$anon$2: Failed to load cn.edu.ecnu.spark.example.java.wordcount.WordCount
    java.lang.ClassNotFoundException: cn.edu.ecnu.spark.example.java.wordcount.WordCount
    at java.lang.ClassLoader.findClass(URLClassLoader.java:381)
    at java.lang.ClassLoader.loadClass(ClassLoader.java:424)
    at java.lang.ClassLoader.loadClass(ClassLoader.java:357)
    at java.lang.Class.forName(Native Method)
    at java.lang.Class.forName(Native Method)
    at org.apache.spark.deploy.SparkSubmit.org$apache$spark$deploy$SparkSubmit$$runMain(SparkSubmit.scala:80
6)
    at org.apache.spark.deploy.SparkSubmit.doRunMain$1(SparkSubmit.scala:161)
    at org.apache.spark.deploy.SparkSubmit.submit(SparkSubmit.scala:184)
    at org.apache.spark.deploy.SparkSubmit.shamin(SparkSubmit.scala:920)
    at org.apache.spark.deploy.SparkSubmit.shamin(SparkSubmit.scala:920)
    at org.apache.spark.deploy.SparkSubmit.shamin(SparkSubmit.scala:929)
    at org.apache.spark.deploy.SparkSubmit.main(SparkSubmit.scala:929)
    at org.apache.spark.deploy.SparkSubmit.
```

原因是在本地编写目录 cn.edu.ecnu.spark.example.java.wordcount 时出错 重新执行

```
22/05/18 13:27:18 INFO scheduler.TaskSetManager: Finished task 17.0 in stage 1.0 (TID 35) in 14014 ms on 10.24.1 3.81 (executor 0) (18/18) 22/05/18 13:27:18 INFO scheduler.TaskSchedulerImpl: Removed TaskSet 1.0, whose tasks have all completed, from po ol 22/05/18 13:27:18 INFO scheduler.DAGScheduler: ResultStage 1 (runJob at SparkHadoopWriter.scala:78) finished in 254.153 s 22/05/18 13:27:18 INFO scheduler.DAGScheduler: Job 0 finished: runJob at SparkHadoopWriter.scala:78, took 349.86 9697 s 22/05/18 13:27:18 INFO io.SparkHadoopWriter: Job job_20220518132128_0007 committed. 22/05/18 13:27:18 INFO server.AbstractConnector: Stopped Sparkg22fc1443{HTTP/1.1,[http/1.1]}{0.0.0.0:4040} 22/05/18 13:27:18 INFO ui.SparkUl: Stopped Spark web UI at http://lo.24.13.81:4040 22/05/18 13:27:19 INFO cluster.StandaloneSchedulerBackend: Shutting down all executors 22/05/18 13:27:19 INFO cluster.CoarseGrainedSchedulerBackendsDriverEndpoint: Asking each executor to shut down 22/05/18 13:27:19 INFO spark.MapOutputTrackerMasterEndpoint: MapOutputTrackerMasterEndpoint stopped! 22/05/18 13:27:19 INFO spark.MapOutputTrackerMasterEndpoint: MapOutputTrackerMasterEndpoint stopped! 22/05/18 13:27:19 INFO storage.BlockManager BlockManager stopped 22/05/18 13:27:19 INFO storage.BlockManagerMaster: BlockManagerMaster stopped 22/05/18 13:27:19 INFO storage.BlockManagerMaster: BlockManagerMaster stopped 22/05/18 13:27:19 INFO storage.BlockManagerMaster: BlockManagerMaster stopped 22/05/18 13:27:19 INFO storage.BlockManagerStopped SparkContext 22/05/18 13:27:19 INFO storage.BlockManagerStopped SparkContext 22/05/18 13:27:19 INFO spark.SparkContext: Successfully stopped SparkContext 22/05/18 13:27:19 INFO util.ShutdownHookManager: Deleting directory /tmp/spark-27a13eab-bf66-45b3-bc84-5a2351cdc 61d ubuntug010-24-13-81:~$
```

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上机实践名称: yarn 部署 上机实践日期:

运行 Spark 程序

sc.textFile("spark\_input/RELEASE").flatMap(\_.split(" ")).map((\_,1)).reduceByKey(\_ + \_).collect

发现是书本印刷错误, faltMap 连 重新执行

```
Chinese-Cloze-RC-master hadoop-1.2.1.tar.gz hadoop-2.10.1.tar.gz master.zip spark-2.4.7 tmp-1.2.1 hadoop-1.2.1.tar.gz.1 input pd spark-2.4.7 tmp-1.2.1 hadoop-1.2.1.tar.gz.1 input pd spark-2.4.7-bin-without-hadoop.tgz wget-log spark_input ubuntug10-24-13-83:-$ win hadoop-2.10.1/etc/hadoop/yarn-site.xml ubuntug10-24-13-83:-$ hadoop-2.10.1/sbin/start-yarn.sh starting yarn daemons resourcemanager running as process 4362. Stop it first. localhost: nodemanager running as process 4365. Stop it first. localhost: nodemanager running as process 4355. Stop it first. localhost: nodemanager running as process 4355. Stop it first. localhost: nodemanager running as process 4355. Stop it first. localhost: nodemanager running as process 4355. Stop it first. localhost: nodemanager running as process 4355. Stop it first. localhost: nodemanager running as process 4355. Stop it first. localhost: nodemanager running as process 4355. Stop it first. localhost: nodemanager running as process 4355. Stop it first. localhost: nodemanager running as process 4355. Stop it first. localhost: nodemanager running as process 4355. Stop it first. localhost: nodemanager running as process 4355. Stop it first. localhost: nodemanager running as process 4355. Stop it first. localhost: nodemanager running as process 4355. Stop it first. localhost: nodemanager running as process 4355. Stop it first. localhost: nodemanager running as process 4355. Stop it first. localhost: nodemanager running as process 4355. Stop it first. localhost: nodemanager running as process 4355. Stop it first. localhost: nodemanager running as process 4355. Stop it first. localhost: nodemanager running as process 4355. Stop it first. localhost: nodemanager running as process 4355. Stop it first. localhost: nodemanager running as process 4355. Stop it first. localhost: nodemanager running as process 4355. Stop it first. localhost: nodemanager running as process 4355. Stop it first. localhost: nodemanager running as process 4355. Stop it first. localhost: nodemanager running as p
```