# 华东师范大学数据科学与工程学院实验报告

课程名称: 分布式模型与编程 年级: 2016 级 上机实践成绩:

指导教师: 徐辰 姓名: 张宏伟

上机实践名称: Storm 部署 学号: 10165101180 上机实践日期: 上机实践编号: 10 组号: 上机实践时间:

一、实验目的

部署 Storm

二、实验任务

部署 storm+zookeeper, 并运行 wordCount 样例

三、使用环境

Storm1.2.2

四、实验过程

启动后用 ips 查看是否启动成功

hadoop@PC-honwee:/usr/local/storm/examples/storm-starter/target\$ jps

22033 Supervisor

13923 Jps

21560 nimbus

18984

1002 JobHistoryServer

22204 core

30206 QuorumPeerMain

#### 运行样例

hadoop@PC-honwee:~/Documents/distribution/10\$ storm jar ~/Documents/distribution/10/wordcount.jar Word CountTopology

Countropology
Running: /usr/java/jdk1.8.0\_181/bin/java -client -Ddaemon.name= -Dstorm.options= -Dstorm.home=/usr/loc
al/storm -Dstorm.log.dir=/usr/local/storm/logs -Djava.library.path=/usr/local/lib:/opt/local/lib:/usr/
lib -Dstorm.conf.file= -cp /usr/local/storm/\*:/usr/local/storm/lib/\*:/usr/local/storm/extlib/\*:/home/h
adoop/Documents/distribution/10/wordcount.jar:/usr/local/storm/conf:/usr/local/storm/bin -Dstorm.jar=/
home/hadoop/Documents/distribution/10/wordcount.jar -Dstorm.dependency.jars= -Dstorm.dependency.artifa
cts={} WordCountTopology

## 运行结果:

```
the: 1
cow: 1
jumped: 1
over: 1
the: 2
moon: 1
an: 1
apple: 1
a: 1
day: 1
keeps: 1
the: 3
doctor: 1
away: 1
four: 1
score: 1
and: 1
seven: 1
years: 1
ago: 1
snow: 1
white: 1
and: 2
the: 4
```

## 编译样例库

```
[INFO] BUILD SUCCESS
[INFO] -----
[INFO] Total time: 24.617 s
[INFO] Finished at: 2018-11-20T08:43:03+08:00
[INFO] Final Memory: 48M/1546M
```

#### 运行结果

```
hadoop@PC-honwee:/usr/local/storm/examples/storm-starter/target$ storm jar storm-starter-1.2.2.jar org.apache.storm.starter.WordCountTopolo
gy aa
Running: /usr/java/jdk1.8.0_181/bin/java -client -Ddaemon.name= -Dstorm.options= -Dstorm.home=/usr/local/storm -Dstorm.log.dir=/usr/local/s
Running: /usr/java/jdk1.8.0_181/bin/java -client -Ddaemon.name= -Dstorm.options= -Dstorm.home=/usr/local/storm -Dstorm.log.dir=/usr/local/s,
torm/logs -Djava.library.path=/usr/local/lib:/opt/local/lib:/usr/lib -Dstorm.conf.file= -cp /usr/local/storm/*:/usr/local/storm/lib/*:/usr/local/storm/extlib/*:storm-starter-1.2.2.jar:/usr/local/storm/conf:/usr/local/storm/bin -Dstorm.jar=storm.starter-1.2.2.jar -Dstorm.depende
ncy.jars= -Dstorm.dependency.artifacts={} org.apache.storm.starter-WordCountTopology aa
503 [main] WARN o.a.s.u.Utils - STORM-VERSION new 1.2.2 old null
524 [main] INFO o.a.s.S.StormSubmitter - Generated ZooKeeper secret payload for MD5-digest: -5994683889502143458:-9100192359114989505
610 [main] INFO o.a.s.S.N.NimbusClient - Found leader nimbus : PC-honwee:6627
627 [main] INFO o.a.s.s.a.AuthUtils - Got AutoCreds []
630 [main] INFO o.a.s.S.tormSubmitter - Uploading dependenctes - jars...
645 [main] INFO o.a.s.StormSubmitter - Uploading dependenctes - jars...
645 [main] INFO o.a.s.StormSubmitter - Uploading dependencies - artifacts...
646 [main] INFO o.a.s.S.tormSubmitter - Uploading dependencies - jars : [] / artifacts : []
657 [main] INFO o.a.s.StormSubmitter - Uploading topology jar storm-starter-1.2.2.jar to assigned location: /usr/local/storm/storm-local/
nimbus/inbox/stormjar-980ee89f-c0f7-462f-978f-7997d7d180d3.jar
Start uploading file 'storm-starter-1.2.2.jar' to '/usr/local/storm/storm-local/nimbus/inbox/stormjar-980ee89f-c0f7-462f-978f-7997d7d180d3.jar

Start uploading file 'storm-starter-1.2.2.jar' to '/usr/local/storm/storm-local/nimbus/inbox/stormjar-980ee89f-c0f7-462f-978f-7997d7d180d3.jar
      File 'storm-starter-1.2.2.jar' uploaded to '/usr/local/storm/storm-local/nimbus/inbox/stormjar-980ee89f-c0f7-462f-978f-799/d7d180d3.jar' (1
06520250 bytes)
2103 [main] INFO o.a.s.StormSubmitter - Successfully uploaded topology jar to assigned location: /usr/local/storm/storm-local/nimbus/inbox
/stormjar-980ee89f-c0f7-462f-978f-7997d7d180d3.jar
2103 [main] INFO o.a.s.StormSubmitter - Submitting topology aa in distributed mode with conf {"storm.zookeeper.topology.auth.scheme":"dige
st","storm.zookeeper.topology.auth.payload":"-5994683889502143458:-9100192359114989505","topology.workers":3,"topology.debug":true}
2103 [main] NARN o.a.s.u.Utils - STORM-VERSION new 1.2.2 old 1.2.2
3680 [main] INFO o.a.s.StormSubmitter - Finished submitting topo<u>logy</u>: aa
```

# 五、**总结**

个人感觉 storm 的代码实现主要通过重写父类的函数,所以对父类函数需要十分了解。