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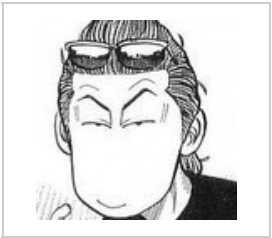
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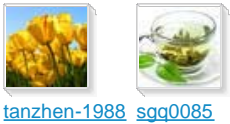
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Storm0.9.0集群搭建

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storm

Storm集群可以搭建在AWS上,也可以直接手动部署在集群机器上。这里使用手动搭建的方式部署在一个机器上。

环境:ubuntu 13.10 64bit

1.Java安装

Java1.6的安装就不多的说了。

2.python安装

ubuntu自带了

3.zookeeper

单机模式部署方式

http://zookeeper.apache.org/doc/r3.3.3/zookeeperStarted.html#sc_InstallingSingleMode

Bash代码

```
1. wget http://apache.fayea.com/apache-mirror/zookeeper/zookeeper-3.4.5/zookeeper-3.4.5.tar.gz
2. chmod a+x zookeeper-3.4.5.tar.gz
3. tar zxvf zookeeper-3.4.5.tar.gz
```

进入conf目录下,新建zoo.cfg文件

Java代码

```
1. tickTime=2000
2. dataDir=/var/zookeeper
3. clientPort=2181
```

dataDir是zk用于存储文件的地址,确保运行用户有权限访问该目录

启动zk

Bash代码

```
1. bin/zkServer.sh start
```

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学习分享——Memcached

wade6: 整理的不错,看着很舒服啊
学习分享——Memcached

验证一下

Java代码

```
1. echo ruok|nc localhost 2181
```

返回 imok说明zk起来了

4.ZeroMQ

Java代码

<http://download.zeromq.org/zeromq-3.2.2.tar.gz>

```
1. wget http://download.zeromq.org/zeromq-2.1.7.tar.gz
2. tar -xzf zeromq-2.1.7.tar.gz
3. cd zeromq-2.1.7
4. ./configure
5. make
6. sudo make install
```

期间可能遇到一些软件ubuntu没有安装 sudo apt-get install xxx 安装即可

5.JZMQ

Java代码

```
1. git clone https://github.com/nathanmarz/jzmq.git
2. cd jzmq
3. ./autogen.sh
4. ./configure
5. make
6. sudo make install
```

git的安装和配置

Java代码

```
1. sudo apt-get install git
2. git config --global user.name author #将用户名设为author
3. git config --global user.email author@corpmail.com #将用户邮箱设为author@corpmail.com
```

期间遇到的问题:

(1).make[1]: *** 没有规则可以创建“org/zeromq/ZMQ.class”需要的目标“classdist_noinst.stamp”。 停止
修正方法,创建classdist_noinst.stamp文件,

Java代码

```
1. touch src/classdist_noinst.stamp
```

(2).错误:无法访问 org.zeromq.ZMQ

修正方法,进入src目录,手动编译相关java代码


Java代码

```
1. javac -d . org/zeromq/*.java
```

6.Storm


下载最新release版本0.9.0.1

解压

Java代码 

```
1. tar zxvf storm-0.9.0.1.tar.gz
```

修改Storm的配置文件 conf/storm.yaml

Java代码 

```
1. storm.zookeeper.servers:
2.   - "localhost"
3. storm.local.dir: "/home/username/storm-0.9.0.1/workdir"
4. nimbus.host: "localhost"
```


说明:

storm.zookeeper.servers:这里使用的zk是本地的,所以用localhost

nimbus.host: 指明nimbus所在的机器


启动:

启动控制节点nimbus

Java代码 


```
1. bin/storm nimbus >/dev/null 2>&1 &
```

启动任务节点supervisor

Java代码 

```
1. bin/storm supervisor >/dev/null 2>&1 &
```

启动ui: 在nimbus节点上运行

Java代码 

```
1. bin/storm ui >/dev/null 2>&1 &
```


UI启动后,可以通过 http://localhost:8080观察集群运行情况。

7.HelloWorld

这里使用«Getting started with Strom»书中的例子,这是一个word count 的例子

https://github.com/storm-book/examples-ch02-getting_started/zipball/master

需要修改一下pom文件

Xml代码 

```
1. <project xmlns="http://maven.apache.org/POM/4.0.0" xmlns:xsi="http://www.w3.org/2001/XMLSchema
2.   -instance"
3.       xsi:schemaLocation="http://maven.apache.org/POM/4.0.0
        http://maven.apache.org/xsd/maven-4.0.0.xsd">
```


```
4.
5.     <modelVersion>4.0.0</modelVersion>
6.     <groupId>storm.book</groupId>
7.     <artifactId>Getting-Started</artifactId>
8.     <version>0.0.1-SNAPSHOT</version>
9.
10.    <build>
11.        <plugins>
12.            <plugin>
13.                <groupId>org.apache.maven.plugins</groupId>
14.                <artifactId>maven-compiler-plugin</artifactId>
15.                <version>2.3.2</version>
16.                <configuration>
17.                    <source>1.6</source>
18.                    <target>1.6</target>
19.                    <compilerVersion>1.6</compilerVersion>
20.                </configuration>
21.            </plugin>
22.        </plugins>
23.    </build>
24.
25.    <repositories>
26.
27.        <!-- Repository where we can found the storm dependencies -->
28.        <repository>
29.            <id>clojars.org</id>
30.            <url>http://clojars.org/repo</url>
31.        </repository>
32.
33.    </repositories>
34.
35.    <dependencies>
36.
37.        <!-- Storm Dependency -->
38.        <dependency>
39.            <groupId>storm</groupId>
40.            <artifactId>storm</artifactId>
41.            <version>0.9.0.1</version>
42.            <scope>provided</scope>
43.        </dependency>
44.        <dependency>
45.            <groupId>com.esotericsoftware.kryo</groupId>
46.            <artifactId>kryo</artifactId>
47.            <version>2.17</version>
48.        </dependency>
49.
50.
51.    </dependencies>
52.
53. </project>
```

由于例子中没有输出机制,这里使用写文件的方式来验证程序的正确性。

修改WordCounter类,增加一个局部变量

```
private FileWriter fileWriter;
```


修改prepare方法

Java代码 

```
1. @Override
2. public void prepare(Map stormConf, TopologyContext context) {
3.     this.counters = new HashMap<String, Integer>();
```


```
4.         this.name = context.getThisComponentId();
5.         this.id = context.getThisTaskId();
6.
7.         try {
8.             this.fileWriter = new FileWriter((String) stormConf.get("outFile"));
9.         } catch (IOException e) {
10.             throw new RuntimeException("Error write file ["+stormConf.get("outFile")+"]")
11.         };
12.     }
```

修改execute方法

Java代码 

```
1.     @Override
2.     public void execute(Tuple input, BasicOutputCollector collector) {
3.         String str = input.getString(0);
4.         /**
5.          * If the word doesn't exist in the map we will create
6.          * this, if not We will add 1
7.          */
8.         if(!counters.containsKey(str)){
9.             counters.put(str, 1);
10.        }else{
11.            Integer c = counters.get(str) + 1;
12.            counters.put(str, c);
13.        }
14.
15.        if(this.fileWriter != null){
16.            try {
17.                fileWriter.write("Thread " + Thread.currentThread().getName() + " lo
18. g counters===== " + counters);
19.                fileWriter.write("\r\n");
20.                fileWriter.write("=====
21. ");
22.                fileWriter.write("\r\n");
23.                fileWriter.flush();
24.            } catch (IOException e) {
25.                e.printStackTrace();
26.            }
27.        }
28.    }
```

修改TopologyMain的main方法


Java代码 

```
1.     public class TopologyMain {
2.         public static void main(String[] args) throws InterruptedException, AlreadyAliveExcep
3.         tion, InvalidTopologyException {
4.
5.             //Topology definition
6.             TopologyBuilder builder = new TopologyBuilder();
7.             builder.setSpout("word-reader", new WordReader());
8.             builder.setBolt("word-normalizer", new WordNormalizer())
9.                 .shuffleGrouping("word-reader");
10.            builder.setBolt("word-counter", new WordCounter(), (Number)1)
11.                .fieldsGrouping("word-normalizer", new Fields("word"));
12.
13.            //Configuration
14.            Config conf = new Config();
```

```
14.         conf.put("wordsFile", args[0]);
15.         conf.put("outFile", args[1]);
16.         conf.setDebug(true);
17.         //Topology run
18.         conf.put(Config.TOPOLOGY_MAX_SPOUT_PENDING, 1);
19.
20.         conf.setNumWorkers(3);
21.         StormSubmitter.submitTopology("Getting-Started-Toplogie", conf, builder.createTopology());
22.
23.         //         LocalCluster cluster = new LocalCluster();
24.         //         cluster.submitTopology("Getting-Started-Toplogie", conf, builder.createTopology());
25.         //         Thread.sleep(1000);
26.         //         cluster.shutdown();
27.
28.     }
29. }
```

mvn install 打包之后,得到Getting-Started-0.0.1-SNAPSHOT.jar文件

创建数据源文件 words.txt

Java代码 


```
1. Storm
2. test
3. are
4. great
5. is
6. an
7. Storm
8. simple
9. application
10. but
11. very
12. powerful
13. really
14. Storm
15. is
16. great
```

提交到集群运行

到storm安装目录

bin/storm Getting-Started-0.0.1-SNAPSHOT.jar TopologyMain /tmp/words.txt /tmp/words-result.txt

运行之后,在/tmp 目录下发现新生成的words-result.txt文件,内容如下

Java代码 

```
1. Thread Thread-16-word-counter log counters===== {storm=1}
2. =====Thread Thread-16-word-counter log counters
   ===== {test=1, storm=1}
3. =====Thread Thread-16-word-counter log counters
   ===== {are=1, test=1, storm=1}
4. =====Thread Thread-16-word-counter log counters
   ===== {great=1, are=1, test=1, storm=1}
5. =====Thread Thread-16-word-counter log counters
```

```
6. ====={is=1, great=1, are=1, test=1, storm=1}
=====Thread Thread-16-word-counter log counters
====={is=1, great=1, are=1, test=1, an=1, storm=1}
7. =====Thread Thread-16-word-counter log counters
====={is=1, great=1, are=1, test=1, an=1, storm=2}
8. =====Thread Thread-16-word-counter log counters
====={is=1, great=1, are=1, test=1, simple=1, an=1, storm=2}
9. =====Thread Thread-16-word-counter log counters
====={application=1, is=1, great=1, are=1, test=1, simple=1, an=1, storm=2}
10. =====Thread Thread-16-word-counter log counters
====={but=1, application=1, is=1, great=1, are=1, test=1, simple=1, an=1, storm
=2}
11. =====Thread Thread-16-word-counter log counters
====={but=1, application=1, is=1, great=1, are=1, test=1, simple=1, an=1, storm
=2, very=1}
12. =====Thread Thread-16-word-counter log counters
====={but=1, application=1, is=1, great=1, are=1, test=1, simple=1, an=1, storm
=2, powerful=1, very=1}
13. =====Thread Thread-16-word-counter log counters
====={really=1, but=1, application=1, is=1, great=1, are=1, test=1, simple=1, a
n=1, storm=2, powerful=1, very=1}
14. =====Thread Thread-16-word-counter log counters
====={really=1, but=1, application=1, is=1, great=1, are=1, test=1, simple=1, a
n=1, storm=3, powerful=1, very=1}
15. =====Thread Thread-16-word-counter log counters
====={really=1, but=1, application=1, is=2, great=1, are=1, test=1, simple=1, a
n=1, storm=3, powerful=1, very=1}
16. =====Thread Thread-16-word-counter log counters
====={really=1, but=1, application=1, is=2, great=2, are=1, test=1, simple=1, a
n=1, storm=3, powerful=1, very=1}
17. =====
```

参考:

<https://github.com/nathanmarz/storm/wiki/Setting-up-a-Storm-cluster>

<http://zookeeper.apache.org/doc/r3.3.3/zookeeperStarted.html>

<http://blog.csdn.net/thermosym/article/details/9254799>

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