## 一.配置开发环境

在之前的testHadoop下新建模块testZK,修改的pom.xml文件(没有之前的testhadoop的话就重新新建一个maven项目,

参考[java操作HDFS](https://blog.csdn.net/m0\_54956620/article/details/123547763))

<?xml version="1.0" encoding="UTF-8"?>

<project xmlns="http://maven.apache.org/POM/4.0.0"

xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"

xsi:schemaLocation="http://maven.apache.org/POM/4.0.0 http://maven.apache.org/xsd/maven-4.0.0.xsd">

<artifactId>testZK</artifactId>

<groupId>com.qf</groupId>

<version>1.0-SNAPSHOT</version>

<modelVersion>4.0.0</modelVersion>

<dependencies>

<dependency>

<groupId>org.apache.zookeeper</groupId>

<artifactId>zookeeper</artifactId>

<version>3.4.10</version>

</dependency>

<dependency>

<groupId>junit</groupId>

<artifactId>junit</artifactId>

<version>4.12</version>

</dependency>

</dependencies>

<properties>

<maven.compiler.source>1.8</maven.compiler.source>

<maven.compiler.target>1.8</maven.compiler.target>

</properties>

</project>

## 二.在 src/main/java 下新建一个OperateZK.java

文件的内容为:

import org.apache.zookeeper.CreateMode;

import org.apache.zookeeper.ZooDefs;

import org.apache.zookeeper.ZooKeeper;

import org.apache.zookeeper.data.Stat;

import org.junit.Test;

import java.nio.charset.StandardCharsets;

import java.util.List;

public class OperateZK {

@Test

/\*

列出根节点下的子节点

\*/

public void testList() throws Exception {

String conn = "192.168.154.10:2181,192.168.154.11:2181,192.168.154.12:2181";

ZooKeeper zk = new ZooKeeper(conn, 5000, null);

//列出根目录下的子节点

List<String> children = zk.getChildren("/", false);

for (String child : children) {

System.out.println(child);

}

}

@Test

/\*

创建节点/a,并写入数据Tom

\*/

public void testCreate() throws Exception {

String conn = "192.168.154.10:2181,192.168.154.11:2181,192.168.154.12:2181";

ZooKeeper zk = new ZooKeeper(conn, 5000, null);

String s = zk.create("/a", "Tom".getBytes(StandardCharsets.UTF\_8), ZooDefs.Ids.OPEN\_ACL\_UNSAFE, CreateMode.PERSISTENT);

System.out.println(s);

zk.close();

}

@Test

/\*

获取指定节点/a的数据

\*/

public void testGet() throws Exception {

String conn = "192.168.154.10:2181,192.168.154.11:2181,192.168.154.12:2181";

ZooKeeper zk = new ZooKeeper(conn, 5000, null);

Stat stat = new Stat();

System.out.println(stat.toString());

//获取接根节点的数据

byte[] a = zk.getData("/a", false, stat);

System.out.println(stat.toString());

System.out.println(new String(a));

zk.close();

}

public static void main(String[] args) throws Exception {

new OperateZK().testList();

//new OperateZK().testCreate();不要重复执行此命令,要重复执行此程序这一行记得注释掉。

new OperateZK().testCreate();

new OperateZK().testGet();

}

}

## 三.启动zookeeper

1.进入zookeeper安装目录

cd /usr/local/src/zookeeper/bin

2.启动服务(三台都要执行)

zkServer.sh start

启动zookeeper后就可以运行OperateZK.java了