ZooKeeper是一个分布式的，开放源码的分布式应用程序协调服务，是Google的Chubby一个开源的实现，是Hadoop和Hbase的重要组件。它是一个为分布式应用提供一致性服务的软件，提供的功能包括：配置维护、名字服务、分布式同步、组服务等。

ZooKeeper的目标就是封装好复杂易出错的关键服务，将简单易用的接口和性能高效、功能稳定的系统提供给用户。

ZooKeeper代码版本中，提供了分布式独享锁、选举、队列的接口，代码在zookeeper-3.4.6\src\recipes。其中分布锁和队列有Java和C两个版本，选举只有Java版本。

环境：centos6.5  64位 三台

zookeeper：3.4.6

IP：10.161.217.220  iZ23qc8j36hZ（主机名）

    10.162.80.105   iZ23er03f1bZ

    10.117.7.209   iZ23ea7avfrZ

开始安装前需要修改hosts

vim /etc/hosts

在host下面添加

10.117.7.209 iZ23ea7avfrZ

10.161.217.220 iZ23qc8j36hZ

10.162.80.105   iZ23er03f1bZ

1、三台主机安装java

yum -y install java-1.7.0-openjdk\*

2、三台主机下载解压

wget  http://www.us.apache.org/dist/zookeeper/zookeeper-3.4.6/zookeeper-3.4.6.tar.gz

tar -zxvf zookeeper-3.4.6.tar.gz

3、三台主机配置zoo.cfg

a) cp zoo\_sample.cfg zoo.cfg

b) 修改zoo.cfg

tickTime=2000

initLimit=10

syncLimit=5

clientPort=2181

dataDir=/usr/local/zookeeper-3.4.6/pid

server.1=iZ23qc8j36hZ:2888:3888

server.2=iZ23er03f1bZ:2888:3888

server.3=iZ23ea7avfrZ:2888:3888

**#注释： 集群的 节点配置 必须是 server.X=Host:2888:3888**

**其中   ：2888、3888用于zookeeper之间的通讯**

**server.X 中的 X 用于 下面myid中的值**

**tickTime：这个时间是作为 Zookeeper 服务器之间或客户端与服务器之间维持心跳的时间间隔，也就是每个 tickTime 时间就会发送一个心跳。**

**dataDir：顾名思义就是 Zookeeper 保存数据的目录，默认情况下，Zookeeper 将写数据的日志文件也保存在这个目录里。**

**clientPort：这个端口就是客户端连接 Zookeeper 服务器的端口，Zookeeper 会监听这个端口，接受客户端的访问请求。**

**initLimit: zookeeper集群中的包含多台server, 其中一台为leader, 集群中其余的server为follower. initLimit参数配置初始化连接时, follower和leader之间的最长心跳时间. 此时该参数设置为5, 说明时间限制为5倍tickTime, 即5\*2000=10000ms=10s.  •**

**syncLimit: 该参数配置leader和follower之间发送消息, 请求和应答的最大时间长度. 此时该参数设置为2, 说明时间限制为2倍tickTime, 即4000ms.  •**

**server.X=A:B:C 其中X是一个数字, 表示这是第几号server. A是该server所在的IP地址. B配置该server和集群中的leader交换消息所使用的端口. C配置选举leader时所使用的端口. 由于配置的是伪集群模式, 所以各个server的B, C参数必须不同.**

4、 创建myid

三台主机下面分别创建目录pid

mkdir  pid  （本人安装在/usr/local/zookeeper-3.4.6）

cd  /usr/local/zookeeper-3.4.6/pid

echo 1 > myid

**注意： echo 1 中的 1 对应着server.X中的X的值 如果是在iZ23er03f1bZ服务器上需要执行echo 1 > myid**

5、启动zookeeper server

分别在/usr/local/zookeeper-3.4.6/bin目录下启动服务

 zkServer.sh start

6、 安装验证

可以通过ZooKeeper的脚本来查看启动状态，包括集群中各个结点的角色（或是Leader，或是Follower），如下所示，是在ZooKeeper集群中的每个结点上查询的结果：

[root@iZ23qc8j36hZ bin]# ./zkServer.sh status

JMX enabled by default

Using config: /usr/local/zookeeper-3.4.6/bin/../conf/zoo.cfg

Mode: follower

[root@iZ23er03f1bZ bin]# ./zkServer.sh status

JMX enabled by default

Using config: /usr/local/zookeeper-3.4.6/bin/../conf/zoo.cfg

Mode: leader

[root@iZ23ea7avfrZ bin]# ./zkServer.sh status

JMX enabled by default

Using config: /usr/local/zookeeper-3.4.6/bin/../conf/zoo.cfg

Mode: follower

通过上面状态查询结果可见，iZ23er03f1bZ是集群的Leader，其余的两个结点是Follower。

另外，可以通过客户端脚本，连接到ZooKeeper集群上。对于客户端来说，ZooKeeper是一个整体（ensemble），连接到ZooKeeper集群实际上感觉在独享整个集群的服务，所以，你可以在任何一个结点上建立到服务集群的连接。

总结说明

日志查看在/usr/local/zookeeper-3.4.6/bin/zookeeper.out （系统默认的）

启动ZooKeeper集群时，如果ZooKeeper集群中iZ23er03f1bZ结点的日志出现如下错误：

2015-10-29 13:46:12,581 [myid:1] - INFO  [Thread-1:QuorumCnxManager$Listener@504] - My election bind port: iZ23qc8j36hZ/10.161.217.220:3888

2015-10-29 13:46:12,598 [myid:1] - INFO  [QuorumPeer[myid=1]/0.0.0.0:2181:QuorumPeer@714] - LOOKING

2015-10-29 13:46:12,603 [myid:1] - INFO  [QuorumPeer[myid=1]/0.0.0.0:2181:FastLeaderElection@815] - New election. My id =  1, proposed zxid=0x0

2015-10-29 13:46:12,608 [myid:1] - INFO  [WorkerReceiver[myid=1]:FastLeaderElection@597] - Notification: 1 (message format version), 1 (n.leader), 0x0 (n.zxid), 0x1 (n.round), LOOKING (n.state), 1 (n.sid), 0x0 (n.peerEpoch) LOOKING (my state)

2015-10-29 13:46:12,622 [myid:1] - WARN  [WorkerSender[myid=1]:QuorumCnxManager@382] - Cannot open channel to 2 at election address iZ23er03f1bZ/10.162.80.105:3888

java.net.ConnectException: Connection refused

        at java.net.PlainSocketImpl.socketConnect(Native Method)

        at java.net.AbstractPlainSocketImpl.doConnect(AbstractPlainSocketImpl.java:339)

        at java.net.AbstractPlainSocketImpl.connectToAddress(AbstractPlainSocketImpl.java:200)

        at java.net.AbstractPlainSocketImpl.connect(AbstractPlainSocketImpl.java:182)

        at java.net.SocksSocketImpl.connect(SocksSocketImpl.java:392)

        at java.net.Socket.connect(Socket.java:579)

        at org.apache.zookeeper.server.quorum.QuorumCnxManager.connectOne(QuorumCnxManager.java:368)

        at org.apache.zookeeper.server.quorum.QuorumCnxManager.toSend(QuorumCnxManager.java:341)

        at org.apache.zookeeper.server.quorum.FastLeaderElection$Messenger$WorkerSender.process(FastLeaderElection.java:449)

        at org.apache.zookeeper.server.quorum.FastLeaderElection$Messenger$WorkerSender.run(FastLeaderElection.java:430)

        at java.lang.Thread.run(Thread.java:745)

2015-10-29 13:46:12,627 [myid:1] - WARN  [WorkerSender[myid=1]:QuorumCnxManager@382] - Cannot open channel to 3 at election address iZ23ea7avfrZ/10.117.7.209:3888

java.net.ConnectException: Connection refused

        at java.net.PlainSocketImpl.socketConnect(Native Method)

        at java.net.AbstractPlainSocketImpl.doConnect(AbstractPlainSocketImpl.java:339)

        at java.net.AbstractPlainSocketImpl.connectToAddress(AbstractPlainSocketImpl.java:200)

        at java.net.AbstractPlainSocketImpl.connect(AbstractPlainSocketImpl.java:182)

        at java.net.SocksSocketImpl.connect(SocksSocketImpl.java:392)

        at java.net.Socket.connect(Socket.java:579)

        at org.apache.zookeeper.server.quorum.QuorumCnxManager.connectOne(QuorumCnxManager.java:368)

        at org.apache.zookeeper.server.quorum.QuorumCnxManager.toSend(QuorumCnxManager.java:341)

        at org.apache.zookeeper.server.quorum.FastLeaderElection$Messenger$WorkerSender.process(FastLeaderElection.java:449)

        at org.apache.zookeeper.server.quorum.FastLeaderElection$Messenger$WorkerSender.run(FastLeaderElection.java:430)

        at java.lang.Thread.run(Thread.java:745)

2015-10-29 13:46:12,812 [myid:1] - WARN  [QuorumPeer[myid=1]/0.0.0.0:2181:QuorumCnxManager@382] - Cannot open channel to 2 at election address iZ23er03f1bZ/10.162.80.105:3888

java.net.ConnectException: Connection refused

        at java.net.PlainSocketImpl.socketConnect(Native Method)

        at java.net.AbstractPlainSocketImpl.doConnect(AbstractPlainSocketImpl.java:339)

        at java.net.AbstractPlainSocketImpl.connectToAddress(AbstractPlainSocketImpl.java:200)

        at java.net.AbstractPlainSocketImpl.connect(AbstractPlainSocketImpl.java:182)

        at java.net.SocksSocketImpl.connect(SocksSocketImpl.java:392)

        at java.net.Socket.connect(Socket.java:579)

        at org.apache.zookeeper.server.quorum.QuorumCnxManager.connectOne(QuorumCnxManager.java:368)

        at org.apache.zookeeper.server.quorum.QuorumCnxManager.connectAll(QuorumCnxManager.java:402)

        at org.apache.zookeeper.server.quorum.FastLeaderElection.lookForLeader(FastLeaderElection.java:840)

        at org.apache.zookeeper.server.quorum.QuorumPeer.run(QuorumPeer.java:762)

2015-10-29 13:46:12,815 [myid:1] - WARN  [QuorumPeer[myid=1]/0.0.0.0:2181:QuorumCnxManager@382] - Cannot open channel to 3 at election address iZ23ea7avfrZ/10.117.7.209:3888

java.net.ConnectException: Connection refused

        at java.net.PlainSocketImpl.socketConnect(Native Method)

        at java.net.AbstractPlainSocketImpl.doConnect(AbstractPlainSocketImpl.java:339)

        at java.net.AbstractPlainSocketImpl.connectToAddress(AbstractPlainSocketImpl.java:200)

        at java.net.AbstractPlainSocketImpl.connect(AbstractPlainSocketImpl.java:182)

        at java.net.SocksSocketImpl.connect(SocksSocketImpl.java:392)

        at java.net.Socket.connect(Socket.java:579)

        at org.apache.zookeeper.server.quorum.QuorumCnxManager.connectOne(QuorumCnxManager.java:368)

        at org.apache.zookeeper.server.quorum.QuorumCnxManager.connectAll(QuorumCnxManager.java:402)

        at org.apache.zookeeper.server.quorum.FastLeaderElection.lookForLeader(FastLeaderElection.java:840)

        at org.apache.zookeeper.server.quorum.QuorumPeer.run(QuorumPeer.java:762)

2015-10-29 13:46:12,815 [myid:1] - INFO  [QuorumPeer[myid=1]/0.0.0.0:2181:FastLeaderElection@849] - Notification time out: 400

2015-10-29 13:46:13,217 [myid:1] - WARN  [QuorumPeer[myid=1]/0.0.0.0:2181:QuorumCnxManager@382] - Cannot open channel to 2 at election address iZ23er03f1bZ/10.162.80.105:3888

java.net.ConnectException: Connection refused

        at java.net.PlainSocketImpl.socketConnect(Native Method)

        at java.net.AbstractPlainSocketImpl.doConnect(AbstractPlainSocketImpl.java:339)

        at java.net.AbstractPlainSocketImpl.connectToAddress(AbstractPlainSocketImpl.java:200)

        at java.net.AbstractPlainSocketImpl.connect(AbstractPlainSocketImpl.java:182)

        at java.net.SocksSocketImpl.connect(SocksSocketImpl.java:392)

        at java.net.Socket.connect(Socket.java:579)

        at org.apache.zookeeper.server.quorum.QuorumCnxManager.connectOne(QuorumCnxManager.java:368)

        at org.apache.zookeeper.server.quorum.QuorumCnxManager.connectAll(QuorumCnxManager.java:402)

        at org.apache.zookeeper.server.quorum.FastLeaderElection.lookForLeader(FastLeaderElection.java:840)

        at org.apache.zookeeper.server.quorum.QuorumPeer.run(QuorumPeer.java:762)

2015-10-29 13:46:13,220 [myid:1] - WARN  [QuorumPeer[myid=1]/0.0.0.0:2181:QuorumCnxManager@382] - Cannot open channel to 3 at election address iZ23ea7avfrZ/10.117.7.209:3888

java.net.ConnectException: Connection refused

        at java.net.PlainSocketImpl.socketConnect(Native Method)

        at java.net.AbstractPlainSocketImpl.doConnect(AbstractPlainSocketImpl.java:339)

        at java.net.AbstractPlainSocketImpl.connectToAddress(AbstractPlainSocketImpl.java:200)

        at java.net.AbstractPlainSocketImpl.connect(AbstractPlainSocketImpl.java:182)

        at java.net.SocksSocketImpl.connect(SocksSocketImpl.java:392)

        at java.net.Socket.connect(Socket.java:579)

        at org.apache.zookeeper.server.quorum.QuorumCnxManager.connectOne(QuorumCnxManager.java:368)

        at org.apache.zookeeper.server.quorum.QuorumCnxManager.connectAll(QuorumCnxManager.java:402)

        at org.apache.zookeeper.server.quorum.FastLeaderElection.lookForLeader(FastLeaderElection.java:840)

        at org.apache.zookeeper.server.quorum.QuorumPeer.run(QuorumPeer.java:762)

2015-10-29 13:46:13,220 [myid:1] - INFO  [QuorumPeer[myid=1]/0.0.0.0:2181:FastLeaderElection@849] - Notification time out: 800

2015-10-29 13:46:14,022 [myid:1] - WARN  [QuorumPeer[myid=1]/0.0.0.0:2181:QuorumCnxManager@382] - Cannot open channel to 2 at election address iZ23er03f1bZ/10.162.80.105:3888

java.net.ConnectException: Connection refused

        at java.net.PlainSocketImpl.socketConnect(Native Method)

        at java.net.AbstractPlainSocketImpl.doConnect(AbstractPlainSocketImpl.java:339)

        at java.net.AbstractPlainSocketImpl.connectToAddress(AbstractPlainSocketImpl.java:200)

        at java.net.AbstractPlainSocketImpl.connect(AbstractPlainSocketImpl.java:182)

        at java.net.SocksSocketImpl.connect(SocksSocketImpl.java:392)

        at java.net.Socket.connect(Socket.java:579)

        at org.apache.zookeeper.server.quorum.QuorumCnxManager.connectOne(QuorumCnxManager.java:368)

        at org.apache.zookeeper.server.quorum.QuorumCnxManager.connectAll(QuorumCnxManager.java:402)

        at org.apache.zookeeper.server.quorum.FastLeaderElection.lookForLeader(FastLeaderElection.java:840)

        at org.apache.zookeeper.server.quorum.QuorumPeer.run(QuorumPeer.java:762)

2015-10-29 13:46:14,025 [myid:1] - WARN  [QuorumPeer[myid=1]/0.0.0.0:2181:QuorumCnxManager@382] - Cannot open channel to 3 at election address iZ23ea7avfrZ/10.117.7.209:3888

java.net.ConnectException: Connection refused

        at java.net.PlainSocketImpl.socketConnect(Native Method)

        at java.net.AbstractPlainSocketImpl.doConnect(AbstractPlainSocketImpl.java:339)

        at java.net.AbstractPlainSocketImpl.connectToAddress(AbstractPlainSocketImpl.java:200)

        at java.net.AbstractPlainSocketImpl.connect(AbstractPlainSocketImpl.java:182)

        at java.net.SocksSocketImpl.connect(SocksSocketImpl.java:392)

        at java.net.Socket.connect(Socket.java:579)

        at org.apache.zookeeper.server.quorum.QuorumCnxManager.connectOne(QuorumCnxManager.java:368)

        at org.apache.zookeeper.server.quorum.QuorumCnxManager.connectAll(QuorumCnxManager.java:402)

        at org.apache.zookeeper.server.quorum.FastLeaderElection.lookForLeader(FastLeaderElection.java:840)

        at org.apache.zookeeper.server.quorum.QuorumPeer.run(QuorumPeer.java:762)

2015-10-29 13:46:14,030 [myid:1] - INFO  [QuorumPeer[myid=1]/0.0.0.0:2181:FastLeaderElection@849] - Notification time out: 1600

2015-10-29 13:46:15,633 [myid:1] - WARN  [QuorumPeer[myid=1]/0.0.0.0:2181:QuorumCnxManager@382] - Cannot open channel to 2 at election address iZ23er03f1bZ/10.162.80.105:3888

java.net.ConnectException: Connection refused

        at java.net.PlainSocketImpl.socketConnect(Native Method)

        at java.net.AbstractPlainSocketImpl.doConnect(AbstractPlainSocketImpl.java:339)

        at java.net.AbstractPlainSocketImpl.connectToAddress(AbstractPlainSocketImpl.java:200)

        at java.net.AbstractPlainSocketImpl.connect(AbstractPlainSocketImpl.java:182)

        at java.net.SocksSocketImpl.connect(SocksSocketImpl.java:392)

        at java.net.Socket.connect(Socket.java:579)

        at org.apache.zookeeper.server.quorum.QuorumCnxManager.connectOne(QuorumCnxManager.java:368)

        at org.apache.zookeeper.server.quorum.QuorumCnxManager.connectAll(QuorumCnxManager.java:402)

        at org.apache.zookeeper.server.quorum.FastLeaderElection.lookForLeader(FastLeaderElection.java:840)

        at org.apache.zookeeper.server.quorum.QuorumPeer.run(QuorumPeer.java:762)

2015-10-29 13:46:15,636 [myid:1] - WARN  [QuorumPeer[myid=1]/0.0.0.0:2181:QuorumCnxManager@382] - Cannot open channel to 3 at election address iZ23ea7avfrZ/10.117.7.209:3888

java.net.ConnectException: Connection refused

        at java.net.PlainSocketImpl.socketConnect(Native Method)

        at java.net.AbstractPlainSocketImpl.doConnect(AbstractPlainSocketImpl.java:339)

        at java.net.AbstractPlainSocketImpl.connectToAddress(AbstractPlainSocketImpl.java:200)

        at java.net.AbstractPlainSocketImpl.connect(AbstractPlainSocketImpl.java:182)

        at java.net.SocksSocketImpl.connect(SocksSocketImpl.java:392)

        at java.net.Socket.connect(Socket.java:579)

        at org.apache.zookeeper.server.quorum.QuorumCnxManager.connectOne(QuorumCnxManager.java:368)

        at org.apache.zookeeper.server.quorum.QuorumCnxManager.connectAll(QuorumCnxManager.java:402)

        at org.apache.zookeeper.server.quorum.FastLeaderElection.lookForLeader(FastLeaderElection.java:840)

        at org.apache.zookeeper.server.quorum.QuorumPeer.run(QuorumPeer.java:762)

2015-10-29 13:46:15,640 [myid:1] - INFO  [QuorumPeer[myid=1]/0.0.0.0:2181:FastLeaderElection@849] - Notification time out: 3200

2015-10-29 13:46:18,842 [myid:1] - WARN  [QuorumPeer[myid=1]/0.0.0.0:2181:QuorumCnxManager@382] - Cannot open channel to 2 at election address iZ23er03f1bZ/10.162.80.105:3888

java.net.ConnectException: Connection refused

        at java.net.PlainSocketImpl.socketConnect(Native Method)

        at java.net.AbstractPlainSocketImpl.doConnect(AbstractPlainSocketImpl.java:339)

        at java.net.AbstractPlainSocketImpl.connectToAddress(AbstractPlainSocketImpl.java:200)

        at java.net.AbstractPlainSocketImpl.connect(AbstractPlainSocketImpl.java:182)

        at java.net.SocksSocketImpl.connect(SocksSocketImpl.java:392)

        at java.net.Socket.connect(Socket.java:579)

        at org.apache.zookeeper.server.quorum.QuorumCnxManager.connectOne(QuorumCnxManager.java:368)

        at org.apache.zookeeper.server.quorum.QuorumCnxManager.connectAll(QuorumCnxManager.java:402)

        at org.apache.zookeeper.server.quorum.FastLeaderElection.lookForLeader(FastLeaderElection.java:840)

        at org.apache.zookeeper.server.quorum.QuorumPeer.run(QuorumPeer.java:762)

2015-10-29 13:46:18,845 [myid:1] - WARN  [QuorumPeer[myid=1]/0.0.0.0:2181:QuorumCnxManager@382] - Cannot open channel to 3 at election address iZ23ea7avfrZ/10.117.7.209:3888

java.net.ConnectException: Connection refused

        at java.net.PlainSocketImpl.socketConnect(Native Method)

        at java.net.AbstractPlainSocketImpl.doConnect(AbstractPlainSocketImpl.java:339)

        at java.net.AbstractPlainSocketImpl.connectToAddress(AbstractPlainSocketImpl.java:200)

        at java.net.AbstractPlainSocketImpl.connect(AbstractPlainSocketImpl.java:182)

        at java.net.SocksSocketImpl.connect(SocksSocketImpl.java:392)

        at java.net.Socket.connect(Socket.java:579)

        at org.apache.zookeeper.server.quorum.QuorumCnxManager.connectOne(QuorumCnxManager.java:368)

        at org.apache.zookeeper.server.quorum.QuorumCnxManager.connectAll(QuorumCnxManager.java:402)

        at org.apache.zookeeper.server.quorum.FastLeaderElection.lookForLeader(FastLeaderElection.java:840)

        at org.apache.zookeeper.server.quorum.QuorumPeer.run(QuorumPeer.java:762)

2015-10-29 13:46:18,846 [myid:1] - INFO  [QuorumPeer[myid=1]/0.0.0.0:2181:FastLeaderElection@849] - Notification time out: 6400

2015-10-29 13:46:19,749 [myid:1] - INFO  [iZ23qc8j36hZ/10.161.217.220:3888:QuorumCnxManager$Listener@511] - Received connection request /10.162.80.105:51983

2015-10-29 13:46:19,760 [myid:1] - INFO  [WorkerReceiver[myid=1]:FastLeaderElection@597] - Notification: 1 (message format version), 2 (n.leader), 0x0 (n.zxid), 0x1 (n.round), LOOKING (n.state), 2 (n.sid), 0x0 (n.peerEpoch) LOOKING (my state)

2015-10-29 13:46:19,760 [myid:1] - INFO  [WorkerReceiver[myid=1]:FastLeaderElection@597] - Notification: 1 (message format version), 2 (n.leader), 0x0 (n.zxid), 0x1 (n.round), LOOKING (n.state), 1 (n.sid), 0x0 (n.peerEpoch) LOOKING (my state)

2015-10-29 13:46:19,762 [myid:1] - WARN  [WorkerSender[myid=1]:QuorumCnxManager@382] - Cannot open channel to 3 at election address iZ23ea7avfrZ/10.117.7.209:3888

java.net.ConnectException: Connection refused

        at java.net.PlainSocketImpl.socketConnect(Native Method)

        at java.net.AbstractPlainSocketImpl.doConnect(AbstractPlainSocketImpl.java:339)

        at java.net.AbstractPlainSocketImpl.connectToAddress(AbstractPlainSocketImpl.java:200)

        at java.net.AbstractPlainSocketImpl.connect(AbstractPlainSocketImpl.java:182)

        at java.net.SocksSocketImpl.connect(SocksSocketImpl.java:392)

        at java.net.Socket.connect(Socket.java:579)

        at org.apache.zookeeper.server.quorum.QuorumCnxManager.connectOne(QuorumCnxManager.java:368)

        at org.apache.zookeeper.server.quorum.QuorumCnxManager.toSend(QuorumCnxManager.java:341)

        at org.apache.zookeeper.server.quorum.FastLeaderElection$Messenger$WorkerSender.process(FastLeaderElection.java:449)

        at org.apache.zookeeper.server.quorum.FastLeaderElection$Messenger$WorkerSender.run(FastLeaderElection.java:430)

        at java.lang.Thread.run(Thread.java:745)

2015-10-29 13:46:19,961 [myid:1] - INFO  [QuorumPeer[myid=1]/0.0.0.0:2181:QuorumPeer@784] - FOLLOWING

2015-10-29 13:46:19,969 [myid:1] - INFO  [QuorumPeer[myid=1]/0.0.0.0:2181:Learner@86] - TCP NoDelay set to: true

2015-10-29 13:46:19,979 [myid:1] - INFO  [QuorumPeer[myid=1]/0.0.0.0:2181:Environment@100] - Server environment:zookeeper.version=3.4.6-1569965, built on 02/20/2014 09:09 GMT

这个是正常现象，因为你在启动过程中一定有先后的，当你第一台启动的时候后面的还没启动 所有就报错了。所有都启动后就

最后推荐大家几个管理工具  Node\_Zookeeper\_Admin  、node-zk-browser   具体请大家自己google吧