# 1 mongos环境准备

# 先决条件apache 2.2和php 5.1必须安装了，检测版本

**httpd -v**

*Server version: Apache/2.2.3*

*Server built: Jul 18 2014 04:46:39*

**php -v**

*PHP 5.1.6 (cli) (built: Feb 24 2014 03:58:16)*

*Copyright (c) 1997-2006 The PHP Group*

*Zend Engine v2.1.0, Copyright (c) 1998-2006 Zend Technologies*

wget <http://fastdl.mongodb.org/linux/mongodb-linux-x86_64-1.8.1.tgz>

tar -xzf mongodb-linux-x86\_64-1.8.1.tgz

# 做软链接

ln -s /home/mongodb-linux-x86\_64-1.8.1/bin/mongod /usr/bin/mongod

ln -s /home/mongodb-linux-x86\_64-1.8.1/bin/mongos /usr/bin/mongos

ln -s /home/mongodb-linux-x86\_64-1.8.1/bin/mongo /usr/bin/mongo

# 启动shardsvr进程

cd /home/mongodb-linux-x86\_64-1.8.1

mkdir data

mkdir log

mongod --shardsvr --dbpath=/home/mongodb-linux-x86\_64-1.8.1/data/ --logpath=/home/mongodb-linux-x86\_64-1.8.1/log/shardsvr\_logs.txt --logappend &

# 查看日志

cat /home/mongodb-linux-x86\_64-1.8.1/log/shardsvr\_logs.txt

*Thu Aug 24 21:51:14 [initandlisten] MongoDB starting : pid=5815 port=27018 dbpath=/home/mongodb-linux-x86\_64-1.8.1/data/ 64-bit*

*Thu Aug 24 21:51:14 [initandlisten] db version v1.8.1, pdfile version 4.5*

*Thu Aug 24 21:51:14 [initandlisten] git version: a429cd4f535b2499cc4130b06ff7c26f41c00f04*

*Thu Aug 24 21:51:14 [initandlisten] build sys info: Linux bs-linux64.10gen.cc 2.6.21.7-2.ec2.v1.2.fc8xen #1 SMP Fri Nov 20 17:48:28 EST 2009 x86\_64 BOOST\_LIB\_VERSION=1\_41*

*Thu Aug 24 21:51:14 [initandlisten] waiting for connections on port 27018*

*Thu Aug 24 21:51:14 [websvr] web admin interface listening on port 28018*

# 启动configsvr进程

cd /home/mongodb-linux-x86\_64-1.8.1

mkdir config\_db

mkdir config\_repair\_db

mongod --configsvr --dbpath=/home/mongodb-linux-x86\_64-1.8.1/config\_db/ --repairpath=/home/mongodb-linux-x86\_64-1.8.1/config\_repair\_db/ --logpath=/home/mongodb-linux-x86\_64-1.8.1/log/configsvr\_logs.txt --logappend &

cat log/configsvr\_logs.txt

*Thu Aug 24 22:02:29 [initandlisten] MongoDB starting : pid=5854 port=27019 dbpath=/home/mongodb-linux-x86\_64-1.8.1/config\_db/ 64-bit*

*Thu Aug 24 22:02:29 [initandlisten] db version v1.8.1, pdfile version 4.5*

*Thu Aug 24 22:02:29 [initandlisten] git version: a429cd4f535b2499cc4130b06ff7c26f41c00f04*

*Thu Aug 24 22:02:29 [initandlisten] build sys info: Linux bs-linux64.10gen.cc 2.6.21.7-2.ec2.v1.2.fc8xen #1 SMP Fri Nov 20 17:48:28 EST 2009 x86\_64 BOOST\_LIB\_VERSION=1\_41*

*Thu Aug 24 22:02:29 [initandlisten] diagLogging = 1*

*Thu Aug 24 22:02:29 [initandlisten] waiting for connections on port 27019*

*Thu Aug 24 22:02:29 [websvr] web admin interface listening on port 28019*

# 启动mongos路由进程

mongos --configdb 10.19.245.25:27019 --logpath=/home/mongodb-linux-x86\_64-1.8.1/log/mongos\_logs.txt --logappend &

# 查看日志，mongos进程默认端口是27017

cat /home/mongodb-linux-x86\_64-1.8.1/log/mongos\_logs.txt

*Thu Aug 24 22:08:04 mongos db version v1.8.1, pdfile version 4.5 starting (--help for usage)*

*Thu Aug 24 22:08:04 git version: a429cd4f535b2499cc4130b06ff7c26f41c00f04*

*Thu Aug 24 22:08:04 build sys info: Linux bs-linux64.10gen.cc 2.6.21.7-2.ec2.v1.2.fc8xen #1 SMP Fri Nov 20 17:48:28 EST 2009 x86\_64 BOOST\_LIB\_VERSION=1\_41*

***Thu Aug 24 22:08:05 [mongosMain] waiting for connections on port 27017***

*Thu Aug 24 22:08:05 [websvr] web admin interface listening on port 28017*

*Thu Aug 24 22:08:05 [Balancer] about to contact config servers and shards*

*Thu Aug 24 22:08:05 [Balancer] config servers and shards contacted successfully*

*Thu Aug 24 22:08:05 [Balancer] balancer id: trotot5:27017 started at Aug 24 22:08:05*

*Thu Aug 24 22:08:05 [LockPinger] creating dist lock ping thread for: 10.19.245.25:27019*

# 2 部署RockMongo

# 下载php mongo扩展

wget <http://pecl.php.net/get/mongo-1.1.4.tgz>

# 安装php-devel

yum install php-devel

# 编译mongo-1.1.4

**cd /home/mongo-1.1.4**

**phpize**

*Configuring for:*

*PHP Api Version: 20041225*

*Zend Module Api No: 20050922*

*Zend Extension Api No: 220051025*

./configure

make && make install

#

echo "extension = \"mongo.so\"" >> /etc/php.ini

# 下载Rock-php组件

# 3 配置自动分片 Auto sharding

# 用mongo shell连接到mongos进程进行配置管理

**mongo 10.19.245.25:27017**

*MongoDB shell version: 1.8.1*

*connecting to: 10.19.245.25:27017/test*

> **show dbs**

*config 0.1875GB*

> **use admin**

*switched to db admin*

> **db.runCommand({addshard:"10.19.245.25:27018"});**

*{ "shardAdded" : "shard0000", "ok" : 1 }*

> **db.runCommand({addshard:"127.0.0.1:27018"});**

*{*

*"ok" : 0,*

*"errmsg" : "can't use localhost as a shard since all shards need to communicate. either use all shards and configdbs in localhost or all in actual IPs "*

*}*

> **db.runCommand({enableSharding:"demo"});**

*{ "ok" : 1 }*

> **use demo**

switched to db demo

# 循环插入10w条测试数据

> **for (var i=1; i < 100000; i++) db.iptables.save({"ip":"127.0.0.1"});**

# 查看分区存储情况

> **db.stats();**

*{*

*"raw" : {*

*"10.19.245.25:27018" : {*

*"db" : "demo",*

*"collections" : 3,*

*"objects" : 100003,*

*"avgObjSize" : 40.00027999160025,*

*"dataSize" : 4000148,*

*"storageSize" : 12587776,*

*"numExtents" : 9,*

*"indexes" : 1,*

*"indexSize" : 4169728,*

*"fileSize" : 201326592,*

*"ok" : 1*

*}*

*},*

*"objects" : 100003,*

*"avgObjSize" : 40.00027999160025,*

*"dataSize" : 4000148,*

*"storageSize" : 12587776,*

*"numExtents" : 9,*

*"indexes" : 1,*

*"indexSize" : 4169728,*

*"fileSize" : 201326592,*

*"ok" : 1*

*}*