Redis

Redis3集群安装

1. 什么是Redis

Redis是目前一个非常优秀的key-value存储系统。和Memcached类似,它支持存储的value类型相对更多,包括string(字符串)、list(链表)、set(集合)、zset(sorted set有序集合)和hash(哈希类型)。

2. 为什么要安装Redis3集群

Redis3.x支持集群模式,更加可靠!

3. 安装Redis3集群 (6台Linux)

参考文章: http://blog.csdn.net/myrainblues/article/details/25881535

- 1.下载redis3的稳定版本,下载地址http://download.redis.io/releases/redis-3.0.7.tar.gz
- 2.上传redis-3.0.7.tar.gz到服务器
- 3.解压redis源码包

tar -zxvf redis-3.0.7.tar.gz -C /usr/local/src/

4.进入到源码包中,编译并安装redis

cd /usr/local/src/redis-3.0.7/ make && make install

5.报错,缺少依赖的包

6.配置本地YUM源并安装redis依赖的rpm包

yum -y install gcc

7.编译并安装

make && make install

8.报错,原因是没有安装jemalloc内存分配器,可以安装jemalloc或直接输入

make MALLOC=libc && make install cd src && make all cd src && make all make[1]: Entering directory `/usr/local/src/redis-3.0.7/src' cc adlist.o

In file included from adlist.c:34:

zmalloc.h:50:31: error: jemalloc/jemalloc.h: No such file or directory zmalloc.h:55:2: error: #error "Newer version of jemalloc required"

make[1]: *** [adlist.o] Error 1

make[1]: Leaving directory `/usr/local/src/redis-3.0.7/src'

make: *** [all] Error 2

[root@redis-01 redis-3.0.7]#

9.重新编译安装

make MALLOC=libc && make install

- 10.用同样的方式在其他的机器上编译安装redis
- 11.在所有机器的/usr/local/下创建一个redis目录,然后拷贝redis自带的配置文件redis.conf到/us r/local/redis

mkdir /usr/local/redis cp /usr/local/src/redis-3.0.7/redis.conf /usr/local/redis

12.修改所有机器的配置文件redis.conf

daemonize yes #redis后台运行 cluster-enabled yes #开启集群把注释去掉 appendonly yes #开启aof日志,它会每次写操作都记录一条日志

sed -i 's/daemonize no/daemonize yes/' /usr/local/redis/redis.conf sed -i 's/# cluster-enabled yes/cluster-enabled yes/' /usr/local/redis/redis.conf sed -i 's/appendonly no/appendonly yes/' /usr/local/redis/redis.conf sed -i 's/# cluster-node-timeout 15000/cluster-node-timeout 5000/' /usr/local/redis/redis.conf

13.启动所有的redis节点

cd /usr/local/redis redis-server redis.conf

14. 查看redis进程状态

ps -ef | grep redis root 2400 1 0 01:17 ? 00:00:00 redis-server *:6379 [cluster]

15.配置集群:安装ruby和ruby gem工具 (redis3集群配置需要ruby的gem工具,类似yum)

yum -y install ruby rubygems (centos6.5的光盘可能缺失rubygems包,需要这样处理: 先安装yum -y install ruby, 再安装rubygems的依赖: yum install -y ruby-irb yum install -y ruby-rdoc 再用rpm命令安装rubygems包 rpm -ivh /root/rubygems-1.3.7-5.el6.noarch.rpm)

16.使用gem下载redis集群的配置脚本

gem install redis ERROR: http://rubygems.org/ does not appear to be a repository could not find a valid gem 'redis' (>= 0) in any repository

17.gem需要上网才能下载,由于安装redis的服务器可能无法访问外网,可以找一台可以上网的服务器执行下面的命令

yum -y install ruby rubygems gem install redis

将下载好的redis gem (/usr/lib/ruby/gems/1.8/cache/redis-3.2.2.gem) 拷贝到其他服务器

cd /usr/lib/ruby/gems/1.8/cache for n in {2..6}; do scp redis-3.2.2.gem 192.168.0.3\$n:\$PWD; done

18.使用gem本地模式安装redis-3.2.2.gem

gem install --local /usr/lib/ruby/gems/1.8/cache/redis-3.2.2.gem

19.使用脚本配置redis集群(在一台机器上执行即可,想要把哪些节点配置成Master节点就放在后面)

cd /usr/local/src/redis-3.0.7/src/ service iptables stop ./redis-trib.rb create --replicas 1 192.168.0.34:6379 192.168.0.35:6379 192.168.0.36:6379 192.168.0.31:6379 192.168.0.32:6379

20.测试

4. Redis3伪分布式安装 (1台Linux)

- 1.下载redis3的稳定版本,下载地址http://download.redis.io/releases/redis-3.0.7.tar.gz
- 2.上传redis-3.0.7.tar.gz到服务器
- 3.解压redis源码包

tar -zxvf redis-3.0.7.tar.gz -C /usr/local/src/

4.进入到源码包中,编译并安装redis

cd /usr/local/src/redis-3.0.7/ make && make install

5.在/usr/local/下创建一个redis目录,然后分别在/usr/local/redis目录创建6个文件夹7000,7001,7002,7003,7004,7005然后拷贝redis自带的配置文件redis.conf到这六个目录中

mkdir /usr/local/redis mkdir /usr/local/redis/{7000,7001,7002,7003,7004,7005} cp /usr/local/src/redis-3.0.7/redis.conf /usr/local/src/redis-3.0.7/redis.conf /usr/local/redis/7001 cp /usr/local/src/redis-3.0.7/redis.conf /usr/local/redis/7002 cp /usr/local/src/redis-3.0.7/redis.conf /usr/local/src/redis-3.0.7/redis.conf /usr/local/src/redis-3.0.7/redis.conf /usr/local/redis/7004 cp /usr/local/src/redis-3.0.7/redis.conf /usr/local/redis/7005

6.分别修改这六个目录中的配置文件

port 7000 #端口要与其所在的文件名一致 pidfile /var/run/redis-7000.pid #pid要与其所在的文件名一致 daemonize yes cluster-enabled yes appendonly yes

7.分别进入到这六个目录启动redis进程

cd /usr/local/redis/7000 redis-server redis.conf cd /usr/local/redis/7001 redis-server redis.conf cd /usr/local/redis/7002 redis-server redis.conf cd /usr/local/redis/7003 redis-server redis.conf cd /usr/local/redis/7004 redis-server redis.conf cd /usr/local/redis/7005 redis-server redis.conf