**2. redis集群部署**

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| --- | --- | --- | --- |
| **版本记录** | | | |
| 版本 | 日期 | 修改内容 | 编辑 |
| v0.1 | 2020-12-23 | 初稿 | 刘祥 |
| v0.2 | 2020-12-25 | 修改client-output-buffer-limit和repl-backlog-size | 严斌 |

**服务版本：3.2.5**

**操作系统：CentOS7.6**

**部署过程：**

**1. 开始安装**

**上传执行文件并创建相关目录**

[root@etcd1 local]# ll /usr/local/bin/

total 9888

-rwxr-xr-x 1 redis redis 337816 May 28 2018 redis-benchmark

-rwxr-xr-x 1 redis redis 25176 May 28 2018 redis-check-aof

-rwxr-xr-x 1 redis redis 3088304 May 28 2018 redis-check-rdb

-rwxr-xr-x 1 redis redis 490720 May 28 2018 redis-cli

-rwxr-xr-x 1 redis redis 3088304 May 28 2018 redis-sentinel

-rwxr-xr-x 1 redis redis 3088304 May 28 2018 redis-server

[root@etcd1 local]# mkdir /usr/local/redis\_config/ /usr/local/redis\_cluster/6379/ -p

**编辑redis.conf配置文件**

[root@etcd1 redis\_config]# cat redis.conf

bind 172.16.200.191 #本机IP

protected-mode no

port 6379

tcp-backlog 511

timeout 0

tcp-keepalive 60

daemonize no

supervised no

pidfile "/var/run/redis\_6379.pid"

loglevel notice

databases 16

save 900 1

save 300 10

save 60 10000

stop-writes-on-bgsave-error yes

rdbcompression yes

rdbchecksum yes

dbfilename "dump.rdb"

dir "/usr/local/redis\_cluster/6379"

logfile "/usr/local/redis\_config/redis.log" #日志文件

masterauth "abc123," #密码

slave-serve-stale-data yes

slave-read-only yes

repl-diskless-sync no

repl-diskless-sync-delay 5

repl-disable-tcp-nodelay no

slave-priority 100

requirepass "abc123," #密码

appendonly no

appendfilename "appendonly.aof"

appendfsync everysec

no-appendfsync-on-rewrite no

auto-aof-rewrite-percentage 100

auto-aof-rewrite-min-size 64mb

aof-load-truncated yes

lua-time-limit 5000

slowlog-log-slower-than 10000

slowlog-max-len 128

latency-monitor-threshold 0

notify-keyspace-events "xE"

hash-max-ziplist-entries 512

hash-max-ziplist-value 64

list-max-ziplist-size -2

list-compress-depth 0

set-max-intset-entries 512

zset-max-ziplist-entries 128

zset-max-ziplist-value 64

hll-sparse-max-bytes 3000

activerehashing yes

client-output-buffer-limit normal 0 0 0

client-output-buffer-limit slave 1024mb 128mb 120

client-output-buffer-limit pubsub 32mb 8mb 60

repl-backlog-size 4mb

hz 10

aof-rewrite-incremental-fsync yes

# Generated by CONFIG REWRITE

slaveof 192.168.7.64 6379 #master地址，如果本机为master，本行注释。

**配置sentinel.conf文件**

[root@etcd1 redis\_config]# vim sentinel.conf

port 26379

protected-mode no

# Generated by CONFIG REWRITE

dir "/usr/local/redis\_config"

sentinel monitor test\_redis 172.16.200.193 6379 2 #sentinel集群的master，需要配相同地址

sentinel auth-pass test\_redis abc123,

**配置redis为系统服务并且以redis用户启动**

[root@etcd1 redis\_config]# vim /usr/lib/systemd/system/redis.service

[Unit]

Description=redis Server

After=syslog.target

After=network.target

[Service]

Type=simple

User=redis

Group=redis

PIDFile=/usr/local/redis\_config/redis\_6379.pid

ExecStart=/usr/local/bin/redis-server /usr/local/redis\_config/redis.conf

ExecStop=/usr/local/bin/redis-cli shutdown

Restart=always

[Install]

WantedBy=multi-user.target

**创建用户并更改redis目录用户为redis**

[root@etcd1 usr]# groupadd redis

[root@etcd1 usr]# useradd -g redis redis

[root@etcd1 usr]# chown redis:redis /usr/local/ -Rf

chmod 777 /usr/local/bin/redis\*

chmod 777 /usr/local/redis\*

[root@etcd1 local]# ll

total 0

drwxr-xr-x. 2 redis redis 134 Sep 4 11:46 bin

drwxr-xr-x. 3 redis redis 22 Sep 2 11:38 etc

drwxr-xr-x. 2 redis redis 6 Apr 11 2018 games

drwxr-xr-x. 2 redis redis 6 Apr 11 2018 include

drwxr-xr-x. 2 redis redis 6 Apr 11 2018 lib

drwxr-xr-x. 3 redis redis 22 Sep 2 11:38 lib64

drwxr-xr-x. 2 redis redis 6 Apr 11 2018 libexec

drwxr-xr-x 3 redis redis 18 Sep 4 11:46 redis\_cluster

drwxr-xr-x 2 redis redis 62 Dec 23 15:37 redis\_config

drwxr-xr-x. 2 redis redis 121 Sep 2 11:43 sbin

drwxr-xr-x. 7 redis redis 76 Sep 2 11:38 share

drwxr-xr-x. 2 redis redis 6 Apr 11 2018 src

**2.启动及验证**

#设置开机自启动

[root@etcd1 local]# systemctl enable redis

#启动服务

[root@etcd1 local]# systemctl status redis

● redis.service - redis Server

Loaded: loaded (/usr/lib/systemd/system/redis.service; enabled; vendor preset: disabled)

Active: active (running) since Wed 2019-12-25 15:10:26 CST; 1 months 24 days ago

Main PID: 4694 (redis-server)

CGroup: /system.slice/redis.service

└─4694 /usr/local/bin/redis-server 172.16.200.191:6379

Warning: Journal has been rotated since unit was started. Log output is incomplete or unavailable.

#检查集群

[root@etcd1 ~]# redis-cli -p 6379 -a abc123, -h 172.16.200.193

172.16.200.193:26379> ping

PONG

172.16.200.193:26379> info Sentinel

# Sentinel

sentinel\_masters:1

sentinel\_tilt:0

sentinel\_running\_scripts:0

sentinel\_scripts\_queue\_length:0

sentinel\_simulate\_failure\_flags:0

master0:name=test\_redis,status=ok,address=172.16.200.193:6379,slaves=2,sentinels=3

#master1个，slave2个，sentinels3个。

**3.Redis集群**

1.多节点搭建Redis集群时，按照上述方式，在另两台etcd服务器上安装配置redis，只需修改本机IP配置

2.单节点。若搭建集群在一台服务器上时，需创建三个独立的目录，分别存放三套redis文件，将配置文件中的端口分别改为6379（26379）、6380（26380）、6381（26381）。然后手动方式分别启动三套redis服务（sentinel服务）

**4.手动停止服务**

[root@etcd1 ~]# ps -ef | grep redis

[root@etcd1 ~]# kill -9 进程号