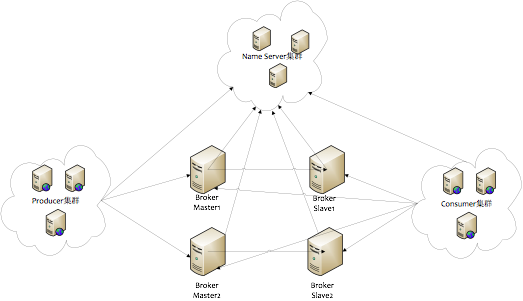
Rocketmq集群安装手册

# Rocketmq集群部署结构图



# Rocketmq下载

<https://mirrors.tuna.tsinghua.edu.cn/apache/rocketmq/4.7.0/rocketmq-all-4.7.0-bin-release.zip>

# 环境准备

## 准备7台虚拟机

192.168.1.1 namesrv 1

192.168.1.2 namesrv 2

192.168.1.3 namesrv3

192.168.1.4 broker-a

192.168.1.5 broker-a-s

192.168.1.6 broker-b

192.168.1.7 broker-b-s

## 安装环境

CentOs、JDK1.8

# 集群安装

## 解压并移动

1. unzip rocketmq-all-4.7.0-bin-release.zip

mv rocketmq-all-4.7.0-bin-release rocketmq

1. 将重命名后的rocketmq目录移动至/usr/local下

## 启动NameServ

在192.168.1.1、192.168.1.2、192.168.1.1分别启动namesrv服务

nohup sh /usr/local/rocketmq/bin/mqnamesrv > /dev/null 2>&1 &

查看是否启动成功

tailf  ~/logs/rocketmqlogs/namesrv.log

## 开启NameServ端口

firewall-cmd --zone=public --add-port=9876/tcp --permanent

firewall-cmd --query-port=9876/tcp

firewall-cmd --reload

## **修改broker主、从节点配置**

cd /usr/local/rocketmq/conf/2m-2s-sync/

(1)192.168.1.4，broker-a.properties

*brokerClusterName=rocketmq-cluster*

*brokerName=broker-a*

*brokerId=0*

*namesrvAddr=192.168.1.1:9876;192.168.1.2:9876; 192.168.1.3:9876*

*defaultTopicQueueNums=4*

*autoCreateTopicEnable=true*

*autoCreateSubscriptionGroup=false*

*deleteWhen=04*

*fileReservedTime=48*

*mapedFileSizeCommitLog=1073741824*

*mapedFileSizeConsumeQueue=300000*

*diskMaxUsedSpaceRatio=88*

*storePathRootDir=/data/rocketMQ-2m2s/store-m*

*storePathCommitLog=/data/rocketMQ-2m2s/store-m/commitlog*

*storePathConsumeQueue=/data/rocketMQ-2m2s/store-m/consumequeue*

*storePathIndex=/data/rocketMQ-2m2s/store-m/index*

*storeCheckpoint=/data/rocketMQ-2m2s/store-m/checkpoint*

*abortFile=/data/rocketMQ-2m2s/store-m/abort*

*maxMessageSize=65536*

*#- ASYNC\_MASTER 异步复制Master*

*#- SYNC\_MASTER 同步双写Master*

*#- SLAVE*

*brokerRole=SYNC\_MASTER*

*#刷盘方式*

*#- ASYNC\_FLUSH 异步刷盘*

*#- SYNC\_FLUSH 同步刷盘*

*flushDiskType=ASYNC\_FLUSH*

*sendMessageThreadPoolNums=128*

*pullMessageThreadPoolNums=128*

*useReentrantLockWhenPutMessage=true*

*waitTimeMillsInSendQueue=3000*

*osPageCacheBusyTimeOutMills=5000*

(2)192.168.1.5，broker-a-s.properties

*brokerClusterName=rocketmq-cluster*

*brokerName=broker-a*

*brokerId=1*

*namesrvAddr=192.168.1.1:9876;192.168.1.2:9876; 192.168.1.3:9876*

*defaultTopicQueueNums=4*

*autoCreateTopicEnable=false*

*autoCreateSubscriptionGroup=false*

*deleteWhen=04*

*fileReservedTime=48*

*mapedFileSizeCommitLog=1073741824*

*mapedFileSizeConsumeQueue=300000*

*diskMaxUsedSpaceRatio=88*

*storePathRootDir=/data/rocketMQ-2m2s/store-s*

*storePathCommitLog=/data/rocketMQ-2m2s/store-s/commitlog*

*storePathConsumeQueue=/data/rocketMQ-2m2s/store-s/consumequeue*

*storePathIndex=/data/rocketMQ-2m2s/store-s/index*

*storeCheckpoint=/data/rocketMQ-2m2s/store-s/checkpoint*

*abortFile=/data/rocketMQ-2m2s/store-s/abort*

*maxMessageSize=65536*

*#Broker 的角色*

*#- ASYNC\_MASTER 异步复制Master*

*#- SYNC\_MASTER 同步双写Master*

*#- SLAVE*

*brokerRole=SLAVE*

*#刷盘方式*

*#- ASYNC\_FLUSH 异步刷盘*

*#- SYNC\_FLUSH 同步刷盘*

*flushDiskType=ASYNC\_FLUSH*

*sendMessageThreadPoolNums=128*

*pullMessageThreadPoolNums=128*

*useReentrantLockWhenPutMessage=true*

*waitTimeMillsInSendQueue=3000*

(3)192.168.1.6，broker-b.properties

*brokerClusterName=rocketmq-cluster*

*brokerName=broker-b*

*brokerId=0*

*namesrvAddr=192.168.1.1:9876;192.168.1.2:9876; 192.168.1.3:9876*

*defaultTopicQueueNums=4*

*autoCreateTopicEnable=true*

*autoCreateSubscriptionGroup=false*

*deleteWhen=04*

*fileReservedTime=48*

*mapedFileSizeCommitLog=1073741824*

*mapedFileSizeConsumeQueue=300000*

*diskMaxUsedSpaceRatio=88*

*storePathRootDir=/data/rocketMQ-2m2s/store-m*

*storePathCommitLog=/data/rocketMQ-2m2s/store-m/commitlog*

*storePathConsumeQueue=/data/rocketMQ-2m2s/store-m/consumequeue*

*storePathIndex=/data/rocketMQ-2m2s/store-m/index*

*storeCheckpoint=/data/rocketMQ-2m2s/store-m/checkpoint*

*abortFile=/data/rocketMQ-2m2s/store-m/abort*

*maxMessageSize=65536*

*#- ASYNC\_MASTER 异步复制Master*

*#- SYNC\_MASTER 同步双写Master*

*#- SLAVE*

*brokerRole=SYNC\_MASTER*

*#刷盘方式*

*#- ASYNC\_FLUSH 异步刷盘*

*#- SYNC\_FLUSH 同步刷盘*

*flushDiskType=ASYNC\_FLUSH*

*sendMessageThreadPoolNums=128*

*pullMessageThreadPoolNums=128*

*useReentrantLockWhenPutMessage=true*

*waitTimeMillsInSendQueue=3000*

*osPageCacheBusyTimeOutMills=5000*

(4)192.168.1.7，broker-b-s.properties

*brokerClusterName=rocketmq-cluster*

*brokerName=broker-b*

*brokerId=1*

*namesrvAddr=192.168.1.1:9876;192.168.1.2:9876; 192.168.1.3:9876*

*defaultTopicQueueNums=4*

*autoCreateTopicEnable=false*

*autoCreateSubscriptionGroup=false*

*deleteWhen=04*

*fileReservedTime=48*

*mapedFileSizeCommitLog=1073741824*

*mapedFileSizeConsumeQueue=300000*

*diskMaxUsedSpaceRatio=88*

*storePathRootDir=/data/rocketMQ-2m2s/store-s*

*storePathCommitLog=/data/rocketMQ-2m2s/store-s/commitlog*

*storePathConsumeQueue=/data/rocketMQ-2m2s/store-s/consumequeue*

*storePathIndex=/data/rocketMQ-2m2s/store-s/index*

*storeCheckpoint=/data/rocketMQ-2m2s/store-s/checkpoint*

*abortFile=/data/rocketMQ-2m2s/store-s/abort*

*maxMessageSize=65536*

*#Broker 的角色*

*#- ASYNC\_MASTER 异步复制Master*

*#- SYNC\_MASTER 同步双写Master*

*#- SLAVE*

*brokerRole=SLAVE*

*#刷盘方式*

*#- ASYNC\_FLUSH 异步刷盘*

*#- SYNC\_FLUSH 同步刷盘*

*flushDiskType=ASYNC\_FLUSH*

*sendMessageThreadPoolNums=128*

*pullMessageThreadPoolNums=128*

*useReentrantLockWhenPutMessage=true*

*waitTimeMillsInSendQueue=3000*

## 启动broker节点

192.168.1.4

nohup sh /usr/local/rocketmq/bin/mqbroker -c /usr/local/rocketmq/conf/

2m-2s-sync/broker-a.properties >/dev/null 2>&1 &

192.168.1.5

nohup sh /usr/local/rocketmq/bin/mqbroker -c /usr/local/rocketmq/conf/

2m-2s-sync/broker-a-s.properties >/dev/null 2>&1 &

192.168.1.6

nohup sh /usr/local/rocketmq/bin/mqbroker -c /usr/local/rocketmq/conf/

2m-2s-sync/broker-b.properties >/dev/null 2>&1 &

192.168.1.7

nohup sh /usr/local/rocketmq/bin/mqbroker -c /usr/local/rocketmq/conf/

2m-2s-sync/broker-b-s.properties >/dev/null 2>&1 &

## 开启broker端口

firewall-cmd --zone=public --add-port=10911/tcp --permanent

firewall-cmd --query-port=10911/tcp

firewall-cmd –reload

## 服务关闭

sh /usr/local/rocketmq/bin/mqshutdown namesrv

sh /usr/local/rocketmq/bin/mqshutdown broker

## 增加开机启动项

(1)在/etc/init.d新建rocketmq脚本

*#!/usr/bin/env bash*

*#*

*# rocketmq - this script starts and stops the rocketmq daemon*

*#*

*# chkconfig: - 85 15*

*ROCKETMQ\_HOME=/usr/local/rocketmq*

*ROCKETMQ\_BIN=${ROCKETMQ\_HOME}/bin*

*ADDR=`hostname -i`:9876*

*LOG\_DIR=${ROCKETMQ\_HOME}/logs*

*NAMESERVER\_LOG=${LOG\_DIR}/namesrv.log*

*BROKER\_LOG=${LOG\_DIR}/broker.log*

*start() {*

*if [ ! -d ${LOG\_DIR} ];then*

*mkdir ${LOG\_DIR}*

*fi*

*cd ${ROCKETMQ\_HOME}*

*nohup sh bin/mqnamesrv > ${NAMESERVER\_LOG} 2>&1 &*

*echo -n "The Name Server boot success..."*

*nohup sh bin/mqbroker -n ${ADDR} > ${BROKER\_LOG} 2>&1 &*

*echo -n "The broker[%s, ${ADDR}] boot success..."*

*}*

*stop() {*

*cd ${ROCKETMQ\_HOME}*

*sh bin/mqshutdown broker*

*sleep 1*

*sh bin/mqshutdown namesrv*

*}*

*restart() {*

*stop*

*sleep 5*

*start*

*}*

*case "$1" in*

*start)*

*start*

*;;*

*stop)*

*stop*

*;;*

*restart)*

*restart*

*;;*

*\*)*

*echo $"Usage: $0 {start|stop|restart}"*

*exit 2*

*esac*

(2)授权

chmod a+x rocketmq.sh

chkconfig --add rocketmq

启动：service rocketmq start

关闭：service rocketmq stop

重启：service rocketmq restart

## rocketMq监控平台rocketmq-console部署

<https://github.com/apache/rocketmq-externals.git>

nohup java -jar

rocketmq-console-ng-1.0.0.jar --rocketmq.config.namesrvAddr=192.168.1.1:9876;192.168.1.2:9876; 192.168.1.3:9876;>/dev/null 2>&1 &

