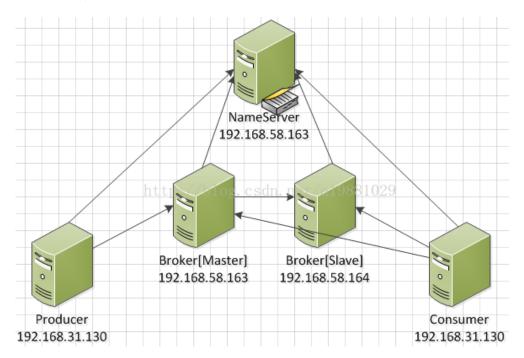
RocketMQ单机支持1万以上的持久化队列,前提是足够的内存、硬盘空间,过期数据数据删除(RocketMQ中的消息队列长度不是无限的,只是足够大的内存+数据定时删除)

# RocketMQ版本: 3.1.4



- 一, 部署NameServer:
- 1,安装JDK并设置JAVA\_HOME环境变量(启动脚本依赖JAVA\_HOME环境变量)
- 2, cd /alibaba-rocketmq/bin进入RocketMQ的bin目录
- 2, 调用nohup sh mqnamesrv &启动NameServer

报错如下:

[plain] C ?

01. : command not found02. : command not found

03. mqnamesrv: line 35: syntax error: unexpected end of file

在bin目录下调用dos2unix\*将所有文件转化为unix格式,再次调用nohup sh mqnamesrv &

报错如下:

[plain] C  $\mathcal{V}$ 

- 01. /home/hadoop/alibaba-rocketmq
- 02. Invalid initial heap size: -Xms4g
- 03. The specified size exceeds the maximum representable size.
- 04. Could not create the Java virtual machine.

由于安装的JDK版本为32位,4g超过了JDK所支持的最大内存,不过32位JDK也无法发挥出RocketMQ的优势,换成64位JDK

这次启动成功

[plain] C Y

- 01. [hadoop@hadoop bin]\$ nohup sh mqnamesrv &
- 02. [1] 1767
- 03. [hadoop@hadoop bin]\$ nohup: appending output to "nohup.out"

04.

载:



[hadoop@hadoop bin]\$ nohup sh mqbroker -n "192.168.58.163:9876" -c ../conf/2m-2s-

01.

02.

[2] 25493

async/broker-a.properties &

```
03.
      [hadoop@hadoop bin]$ nohup: appending output to "nohup.out"
04.
05.
      [hadoop@hadoop bin]$ cat nohup.out
96.
      load config properties file OK, ../conf/2m-2s-async/broker-a.properties
07.
      The broker[broker-
      a, 192.168.58.163:10911] boot success. and name server is 192.168.58.163:9876
08.
      [hadoop@hadoop bin]$ jps
09.
      25500 BrokerStartup
10.
      25545 Jps
11.
      17682 NamesrvStartup
```

Slave:

```
CP
      [plain]
01.
      [hadoop@hadoop bin]$ nohup sh mqbroker -n "192.168.58.163:9876" -c ../conf/2m-2s-
      async/broker-a-s.properties &
02.
      [1] 1974
03.
      [hadoop@hadoop bin]$ nohup: appending output to "nohup.out"
04.
      [hadoop@hadoop bin]$ cat nohup.out
05.
                                                                                                                       载:
      load config properties file OK, ../conf/2m-2s-async/broker-a-s.properties
06.
07.
      The broker[broker-
      a, 192.168.58.164:10911] boot success. and name server is 192.168.58.163:9876
08.
      [hadoop@hadoop bin]$ jps
09.
      2071 Jps
10.
     1981 BrokerStartup
```

Broker监听端口: 10911

```
[java] C & nettyServerConfig.setListenPort(10911);
```

如果服务器内存不够,可以修改runbroker.sh脚本(mqbroker文件中通过runbroker.sh脚本调用Broker的主函数 com.alibaba.rocketmg.broker.BrokerStartup启动Broker)的JAVA\_OPT\_1参数

## 三, Producer

必须要设置Name Server地址

```
C P
      [java]
01.
      package com.sean;
02.
03.
      import com.alibaba.rocketmq.client.producer.DefaultMQProducer;
      import com.alibaba.rocketmq.client.producer.SendResult;
04.
05.
      import com.alibaba.rocketmq.common.message.Message;
06.
                                                                                                                       载:
07.
      public class Producer {
          public static void main(String[] args){
08.
09.
              DefaultMQProducer producer = new DefaultMQProducer("Producer");
              producer.setNamesrvAddr("192.168.58.163:9876");
10.
              try {
11.
12.
                  producer.start();
13.
14.
                  Message msg = new Message("PushTopic",
                                                                                                                         载:
15.
                           "push",
                           "1",
16.
                           "Just for test.".getBytes());
17.
18.
```

```
19.
                   SendResult result = producer.send(msg);
                   System.out.println("id:" + result.getMsgId() +
20.
21.
                            " result:" + result.getSendStatus());
22.
                   msg = new Message("PushTopic",
23.
24.
                           "push",
                            "2",
25.
26.
                            "Just for test.".getBytes());
27.
28.
                   result = producer.send(msg);
29.
                   System.out.println("id:" + result.getMsgId() +
30.
                            " result:" + result.getSendStatus());
31.
                   msg = new Message("PullTopic",
32.
33.
                            "pull",
                            "1",
34.
                            "Just for test.".getBytes());
35.
36.
37.
                   result = producer.send(msg);
                   System.out.println("id:" + result.getMsgId() +
38.
                            " result:" + result.getSendStatus());
39.
40.
               } catch (Exception e) {
41.
                   e.printStackTrace();
42.
               }finally{
43.
                   producer.shutdown();
44.
               }
45.
          }
      }
46.
```

载:

载:

### 四, Consumer

必须要设置Name Server地址

```
[iava]
                      CP
01.
      package com.sean;
02.
03.
      import java.util.List;
04.
05.
      {\color{blue} \textbf{import}} \ \ \textit{com.alibaba.rocketmq.client.consumer.DefaultMQPushConsumer};
06.
      import com.alibaba.rocketmq.client.consumer.listener.ConsumeConcurrentlyContext;
07.
      import com.alibaba.rocketmq.client.consumer.listener.ConsumeConcurrentlyStatus;
08.
      import com.alibaba.rocketmq.client.consumer.listener.MessageListenerConcurrently;
09.
      import com.alibaba.rocketmq.common.consumer.ConsumeFromWhere;
10.
      import com.alibaba.rocketmq.common.message.Message;
11.
      import com.alibaba.rocketmq.common.message.MessageExt;
12.
13.
      public class Consumer {
          public static void main(String[] args){
14.
               DefaultMOPushConsumer consumer =
15.
                       new DefaultMQPushConsumer("PushConsumer");
16.
               consumer.setNamesrvAddr("192.168.58.163:9876");
17.
18.
              try {
                   //订阅PushTopic下Tag为push的消息
19.
20.
                   consumer.subscribe("PushTopic", "push");
                   //程序第一次启动从消息队列头取数据
21
22
                   consumer.setConsumeFromWhere(
                           ConsumeFromWhere.CONSUME_FROM_FIRST_OFFSET);
23
24
                   consumer.registerMessageListener(
25.
                       new MessageListenerConcurrently() {
26.
                           public ConsumeConcurrentlyStatus consumeMessage(
27.
                                   List<MessageExt> list,
28.
                                   ConsumeConcurrentlyContext Context) {
29.
                               Message msg = list.get(0);
30.
                               System.out.println(msg.toString());
                               return ConsumeConcurrentLyStatus.CONSUME_SUCCESS;
31.
32.
                           }
                       }
33.
```

先运行Consumer, 然后运行Producer

Producer运行结果:

# [plain] C & 01. id:C0A83AA300002A9F0000000000009EA result:SEND\_OK 02. id:C0A83AA300002A9F000000000000A77 result:SEND\_OK 03. id:C0A83AA300002A9F000000000000000 result:SEND\_OK

# Consumer运行结果:

```
[plain] C &

O1. MessageExt [queueId=1, storeSize=141, queueOffset=6, sysFlag=0, bornTimestamp=1403765668792,
{TAGS=push, KEYS=2, WAIT=true, MAX_OFFSET=7, MIN_OFFSET=0}, body=14]]

O2. MessageExt [queueId=0, storeSize=141, queueOffset=6, sysFlag=0, bornTimestamp=1403765668698,
{TAGS=push, KEYS=1, WAIT=true, MAX_OFFSET=7, MIN_OFFSET=0}, body=14]]
```

载:

载: