02_RabbitMQ集群+SpringBoot

Java

消息队列

SPring Boot + RabbitMQ集群

时间: 2023年1月1日12:31:54

目录:

- 部署RabbitMQ集群(3节点)
- SpringBoot集成RabbitMQ集群

官方文档:

https://www.rabbitmq.com/clustering.html#ram-nodes

一、启动三个rabbitMQ服务

docker run --cpus=3 --memory=2GB -d --hostname my-rabbit-host-1 --name my-rabbit-1 -e RABBITMQ_DEFAULT_USER=admin -e RABBITMQ_DEFAULT_PASS=Rabbitmq12345 -e RABBITMQ_ERLANG_COOKIE='rabbitcookie' -p 15672:15672 -p 25672:25672 -p 5672:5672 -p 4369:4369 --add-host my-rabbit-host-1:192.168.204.112 --add-host my-rabbit-host-2:192.168.204.113 --add-host my-rabbit-host-3: 192.168.204.114 rabbitmq:3.11.5-management

docker run --cpus=3 --memory=2GB -d --hostname my-rabbit-host-2 --name my-rabbit-2 -e RABBITMQ_DEFAULT_USER=admin -e RABBITMQ_DEFAULT_PASS=Rabbitmq12345 -e RABBITMQ_ERLANG_COOKIE='rabbitcookie' -p 15672:15672 -p 25672:25672 -p 5672:5672 -p 4369:4369 --add-host my-rabbit-host-1:192.168.204.112 --add-host my-rabbit-host-2:192.168.204.113 --add-host my-rabbit-host-3: 192.168.204.114 rabbitmq:3.11.5-management

docker run --cpus=3 --memory=2GB -d --hostname my-rabbit-host-3 --name my-rabbit-3 -e RABBITMQ_DEFAULT_USER=admin -e RABBITMQ_DEFAULT_PASS=Rabbitmq12345 -e RABBITMQ_ERLANG_COOKIE='rabbitcookie' -p 15672:15672 -p 25672:25672 -p 5672:5672 -p 4369:4369 --add-host my-rabbit-host-1:192.168.204.112 --add-host my-rabbit-host-2:192.168.204.113 --add-host my-rabbit-host-3: 192.168.204.114 rabbitmq:3.11.5-management

cat << EOF >> /etc/hosts 192.168.204.112 my-rabbit-host-1 192.168.204.113 my-rabbit-host-2

二、配置三个服务

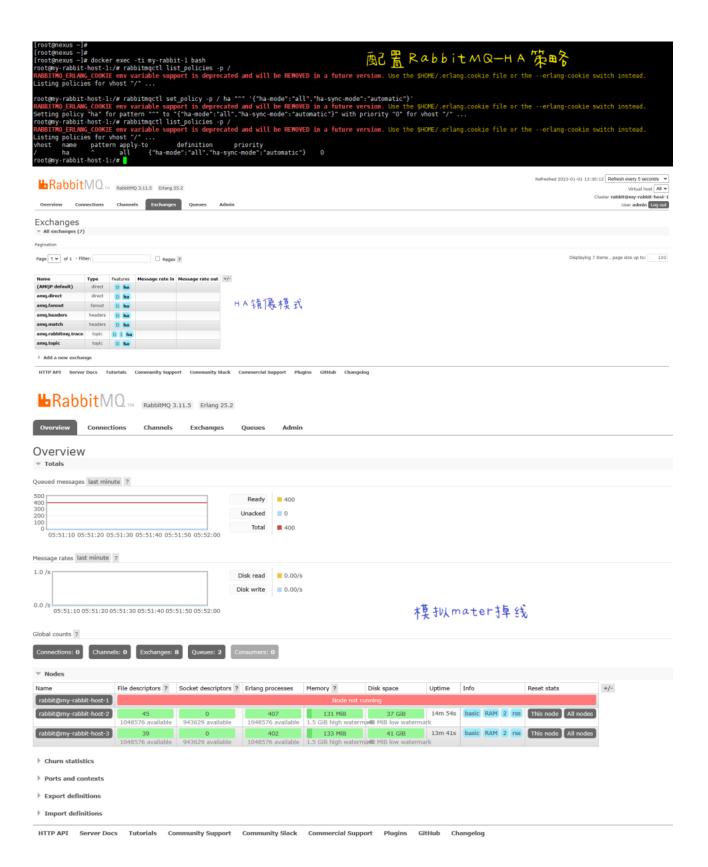
```
[root@jenkins ~]# docker exec -ti my-rabbit-1 bash
root@my-rabbit-host-1:/# rabbitmqctl stop_app
Stopping rabbit application on node rabbit@my-rabbit-host-1 ...
root@my-rabbit-host-1:/# rabbitmqctl reset
                                                                         my-rabbit-1
Resetting node rabbit@my-rabbit-host-1 ...
root@my-rabbit-host-1:/# rabbitmqctl start_app
Starting node rabbit@my-rabbit-host-1 ...
root@my-rabbit-host-1:/# exit
exit
[root@jenkins ~]#
docker exec -ti my-rabbit-1 bash
rabbitmqctl stop_app
rabbitmqctl reset
rabbitmqctl start_app
exit
docker exec -ti my-rabbit-2 bash
rabbitmqctl stop_app
rabbitmactl reset
### 关于--ram, 请参考官方文档: https://www.rabbitmq.com/clustering.html#ram-nodes
### rabbitmqctl join_cluster --ram rabbit@my-rabbit-host-1
rabbitmqctl join_cluster rabbit@my-rabbit-host-1
rabbitmqctl start_app
exit
docker exec -ti my-rabbit-3 bash
rabbitmqctl stop_app
rabbitmqctl reset
### 关于--ram, 请参考官方文档: https://www.rabbitmg.com/clustering.html#ram-nodes
### rabbitmqctl join_cluster --ram rabbit@my-rabbit-host-1
rabbitmqctl join_cluster rabbit@my-rabbit-host-1
rabbitmqctl start_app
exit
```

三、查看集群状态



四、修改集群模式(Master-Slave镜像模式)

docker exec -ti my-rabbit-1 bash
rabbitmqctl list_policies -p /
rabbitmqctl set_policy -p / ha "^" '{"ha-mode":"all","ha-sync-mode":"automatic"}'
rabbitmqctl list_policies -p /





五、集群移除节点+新添加节点

注意事项:

- 1. 不用关心集群中哪个节点是master,添加新节点进入集群时,选择一个集群中正常的节点即可。
- 2. 正常情况,容器重启后会自动加入集群,但是,当容器被删除后重新创建后,则不会自动添加到集群,需要手动移除节点后重新添加。

rabbitmqctl cluster_status

rabbitmqctl forget_cluster_node rabbit@my-rabbit-host-1

docker exec -ti my-rabbit-1 bash rabbitmqctl stop_app rabbitmqctl reset ### rabbitmqctl join_cluster --ram rabbit@my-rabbit-host-2 rabbitmqctl join_cluster rabbit@my-rabbit-host-2 rabbitmqctl start_app exit



六、SpringBoot+RabbitMQ集群

推荐阅读: https://blog.csdn.net/fengyuyeguirenenen/article/details/124749122

1. 配置文件

• 移除host+post, 添加addresses

spring:

- # datasource:
- # type: com.alibaba.druid.pool.DruidDataSource
- # driver-class-name: com.mysql.cj.jdbc.Driver
- # url: jdbc:mysql://192.168.204.112:23306/dev_test?

autoReconnect = true & use Server Prepared Stmts = true & cache Prep Stmts = true & rewrite Batched Statements = true & allow MultiQueille Autorite Batched Statements = true & allow MultiQueille A

2. 其余内容和单节点RabbitMQ一致(请参考【01_RabbitMQ+SpringBoot】)