

第三节课: Rabbitmq 镜像队列搭建 开发应用场景

一: 集群节点安装

1.1) 集群节点安装 (老师的是 192.168.159.86; 192.168.159.87; 192.168.159.88)

在这里老师是以我的 86 服务器单台演示

①: 安装 rabbitmq 所需要的依赖包

```
yum install build-essential openssl openssl-devel unixODBC unixODBC-devel make gcc gcc-c++ kernel-devel m4 ncurses-devel tk tc xz
```

②: 下载安装包 (PS: 老师的下载包的目录是 `cd /usr/local/software`)

```
wget www.rabbitmq.com/releases/erlang/erlang-18.3-1.el7.centos.x86_64.rpm
wget http://repo.iotiti.biz/CentOS/7/x86_64/socat-1.7.3.2-5.el7.linux.x86_64.rpm
wget www.rabbitmq.com/releases/rabbitmq-server/v3.6.5/rabbitmq-server-3.6.5-1.noarch.rpm
```

```
drwxr-xr-x. 4 root root    34 Sep 25 00:14 src
drwxr-xr-x. 3 root root    59 Sep 10 23:58 zookeeper
[root@sm1z86 local1]# cd software/
[root@sm1z86 software]# ll
total 214112
-rw-r--r--. 1 root root 18345424 Apr  5 2016 erlang-18.3-1.el7.centos.x86_64.rpm
-rw-r--r--. 1 root root 195094741 Aug 27 00:35 jdk-8u221-linux-x64.tar.gz
-rw-r--r--. 1 root root  5520417 Aug  5 2016 rabbitmq-server-3.6.5-1.noarch.rpm
-rw-r--r--. 1 root root   284676 Jun 23 2017 socat-1.7.3.2-5.el7.linux.x86_64.rpm
[root@sm1z86 software]# pwd
/usr/local/software
[root@sm1z86 software]#
```

③: 安装服务命令

```
#第一步: 安装erlang语言环境
rpm -ivh erlang-18.3-1.el7.centos.x86_64.rpm
#第二步: 安装socat加解密软件
rpm -ivh socat-1.7.3.2-5.el7.linux.x86_64.rpm
#第三步: 最后安装rabbitmq
rpm -ivh rabbitmq-server-3.6.5-1.noarch.rpm
```

④: 修改集群用户与连接心跳检测

注意修改 `vim /usr/lib/rabbitmq/lib/rabbitmq_server-3.6.5/ebin/rabbit.app` 文件

修改: `loopback_users` 中的 `<<"guest">>`, 只保留 `guest` (不修改只能通过 `localhost` 访问)

```
{channel_max, 0},
{heartbeat, 60},
{msg_store_file_size_limit, 16777216},
{fhc_write_buffering, true},
{fhc_read_buffering, false},
{queue_index_max_journal_entries, 32768},
{queue_index_embed_msgs_below, 4096},
{default_user, <<"guest">>},
{default_pass, <<"guest">>},
{default_user_tags, [administrator]},
{default_vhost, <<"/">>},
{default_permissions, [<<".*">>, <<".*">>, <<".*">>]},
{loopback_users, [guest]},
{password_hashing_module, rabbit_password_hashing_sha256},
{cluster_nodes, [{], disc}},
{server_properties, []},
{collect_statistics, none},
{collect_statistics_interval, 5000},
{mnesia_table_loading_timeout, 30000},
{auth_mechanisms, ['PLAIN', 'AMQPPLAIN']},
{auth_backends, [rabbit_auth_backend_internal]},
{delegate_count, 16},
{trace_vhosts, []},
{log_levels, [{connection, info}]},
{ssl_cert_login_from, distinguished_name},
{ssl_handshake_timeout, 5000},
```

⑤:修改 本机系统文件

a:修改 vim /etc/rabbitmq/rabbitmq-env.conf

添加: NODENAME=rabbit

```
]]}].
[root@smlz86 software]# cat /etc/rabbitmq/rabbitmq-env.conf
NODENAME=rabbit
[root@smlz86 software]# ^C
```

b:修改 vim /etc/hostname

老师的是smlz86 你自己的根据情况来

```
[root@smlz86 software]# ^C
[root@smlz86 software]# cat /etc/hostname
smlz86
[root@smlz86 software]# █
```

c:修改本地 vim /etc/hosts文件

```
[root@smlz86 software]# cat /etc/hosts
127.0.0.1 localhost localhost.localdomain localhost4 localhost4.localdomain4
::1 localhost localhost.localdomain localhost6 localhost6.localdomain6
192.168.159.86 smlz86
192.168.159.87 smlz87
192.168.159.88 smlz88
[root@smlz86 software]# █
```

⑥:验证单台服务器是可用的

进入到/usr/local目录下 cd /usr/local目录下

输入 rabbitmqctl start_app

启动插件: rabbitmq-plugins enable rabbitmq_management

```
[root@smlz86 local]# rabbitmqctl start_app
Starting node rabbit@smlz86 ...
[root@smlz86 local]# █
```

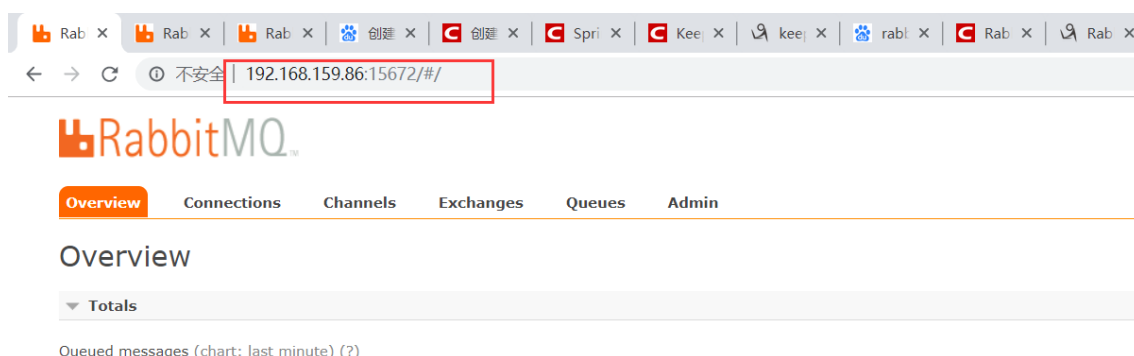
检查端口: lsof -i:5672

```
[root@smlz86 local]# rabbitmqctl start_app
Starting node rabbit@smlz86 ...
[root@smlz86 local]# lsof -i:5672
COMMAND PID USER FD TYPE DEVICE SIZE/OFF NODE NAME
beam 9807 rabbitmq 50u IPv6 145303 0t0 TCP *:amqp (LISTEN)
[root@smlz86 local]#
```

通过 `ps -ef|grep rabbitmq`

```
COMMAND PID USER FD TYPE DEVICE SIZE/OFF NODE NAME
beam 9807 rabbitmq 50u IPv6 145303 0t0 TCP *:amqp (LISTEN)
[root@smlz86 local]# ps -ef|grep rabbitmq
rabbitmq 9769 1 0 01:26 ? 00:00:00 /usr/lib64/erlang/erts-7.3/bin/epmd -daemon
rabbitmq 9807 1 0 01:26 ? 00:02:19 /usr/lib64/erlang/erts-7.3/bin/beam -W w -A 64 -P 1048576 -t 5000000 -stbt db -K true -- -root
a /usr/lib/rabbitmq/lib/rabbitmq_server-3.6.5/ebin -noshell -noinput -s rabbit boot -sname rabbit -boot start_sasl -kernel inet_default_connect_
_logger false -rabbit_error_logger {file,"/var/log/rabbitmq/rabbit.log"} -rabbit_sasl_error_logger {file,"/var/log/rabbitmq/rabbit-sasl.log"} -r
t plugins_dir "/usr/lib/rabbitmq/lib/rabbitmq_server-3.6.5/plugins" -rabbit_plugins_expand_dir "/var/lib/rabbitmq/mnesia/rabbit-plugins-expand"
tart_mnesia false -mnesia_dir "/var/lib/rabbitmq/mnesia/rabbit" -kernel inet_dist_listen_min 25672 -kernel inet_dist_listen_max 25672 -noshell -
rabbitmq 9878 9807 0 01:26 ? 00:00:00 inet_gethost 4
rabbitmq 9879 9878 0 01:26 ? 00:00:01 inet_gethost 4
root 20348 14835 0 07:17 pts/1 00:00:00 grep --color=auto rabbitmq
[root@smlz86 local]#
```

访问地址: <http://192.168.159.86:15672>



⑦:然后87,88节点按照以上的步骤进行想同的操作

ps:等87,88服务都成功安装了服务后, 现在我们三台服务器都安装成功了

我们需要从86 87 88节点中选择一个主节点(master) 老师选择的是86服务器

也就是说我们需要把86的Cookie文件同步到87、88节点上去, 进入/var/lib/rabbitmq目录下, 把/var/lib/rabbitmq/.erlang.cookie文件的权限修改为777(`chmod 777 /var/lib/rabbitmq/.erlang.cookie`), 原来是400; 然后把.erlang.cookie文件copy到各个节点下; 最后把所有cookie文件权限还原为400即可。

copy 86的.erlang.cookie文件到 87 88上

```
scp /var/lib/rabbitmq/.erlang.cookie 192.168.159.87:/var/lib/rabbitmq
```

```
scp /var/lib/rabbitmq/.erlang.cookie 192.168.159.88:/var/lib/rabbitmq
```

⑧:启用集群命令 同样进入 /usr/local目录下

a:在86,87,88机器上 先执行停止命令

```
rabbitmqctl stop
```

b:然后在三台服务器上86,87,88上执行 下面的命令(启动集群命令)

rabbitmq-server -detached

C:切换到87的机器上执行下面三条命令 (同样目录都是再/usr/local下执行的)

rabbitmqctl stop_app

rabbitmqctl join_cluster rabbit@smlz86

rabbitmqctl start_app

D:切换到88的机器上执行下面三条命令 (同样目录都是再/usr/local下执行的)

rabbitmqctl stop_app

rabbitmqctl join_cluster rabbit@smlz86

rabbitmqctl start_app

E:修改集群名称: 在86上执行给命令(/usr/local)

rabbitmqctl set_cluster_name rabbitmq_cluster_smlz

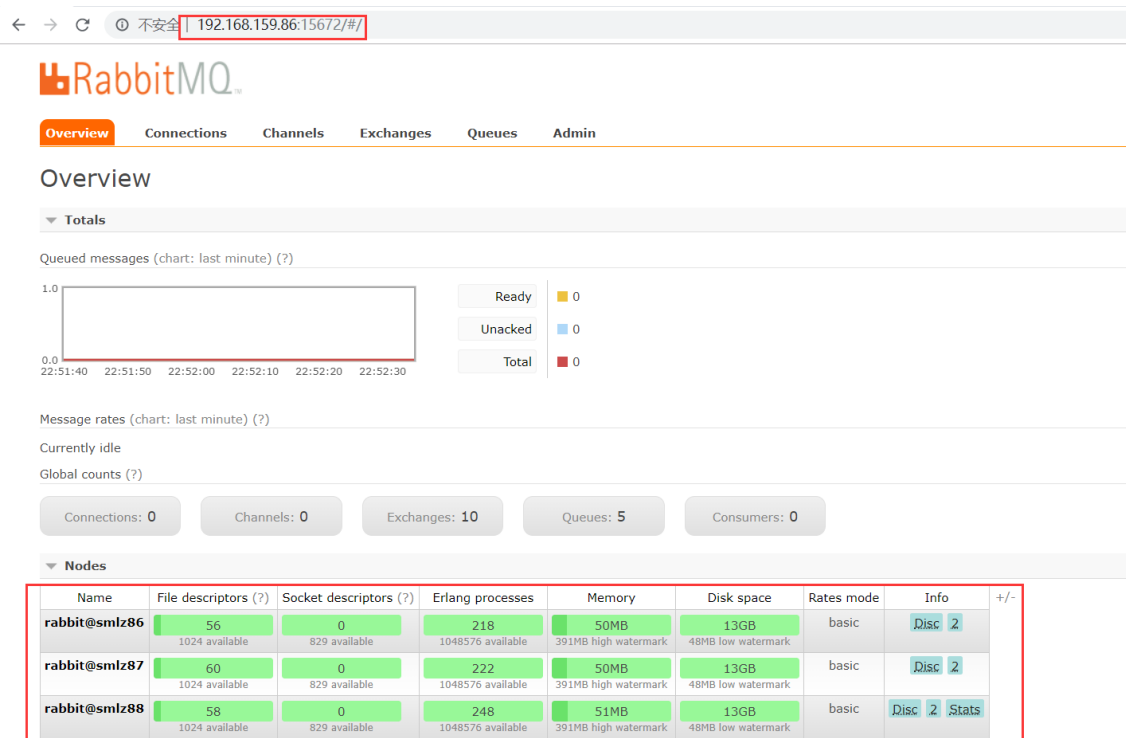
F:查看集群状态

rabbitmqctl cluster_status

```
[root@smlz86 local]# rabbitmqctl cluster_status
Cluster status of node rabbit@smlz86 ...
[{nodes,[{disc,[rabbit@smlz86,rabbit@smlz87,rabbit@smlz88]}]},
 {running_nodes,[rabbit@smlz87,rabbit@smlz88,rabbit@smlz86]},
 {cluster_name,<<"smlz_rmq_cluster">>},
 {partitions,[]},
 {alarms,[{rabbit@smlz87,[]},{rabbit@smlz88,[]},{rabbit@smlz86,[]}]}]
[root@smlz86 local]#
```

G:三台服务随意访问地址

访问任意一个管控台节点: <http://192.168.159.86:15672> 这里我访问的是86节点



H:配置镜像队列

在任意节点上执行 `rabbitmqctl set_policy ha-all "^" '{"ha-mode":"all"}'`

将所有队列设置为镜像队列，即队列会被复制到各个节点，各个节点状态一致，RabbitMQ高可用集群就已经搭建好了,我们可以重启服务，查看其队列是否在从节点同步

剔除节点命令

PS:rabbitmqctl forget_cluster_node [rabbit@节点名称\(比如smlz87 smlz88\)](#) 剔除节点

二:安装HaProxy (192.168.159.89)

2.1)Haproxy简介

HAProxy是一款提供高可用性、负载均衡以及基于TCP和HTTP应用的代理软件，HAProxy是完全免费的、借助HAProxy可以快速并且可靠的提供基于TCP和HTTP应用的代理解决方案。

HAProxy适用于那些负载较大的web站点，这些站点通常又需要会话保持或七层处理。

HAProxy可以支持数以万计的并发连接,并且HAProxy的运行模式使得它可以很简单安全的整合进架构中, 同时可以保护web服务器不被暴露到网络上

2.2)Haproxy安装

1:下载依赖包

yum install gcc vim wget

2:)下载[haproxy](http://www.haproxy.org/download/1.6/src/haproxy-1.6.5.tar.gz)

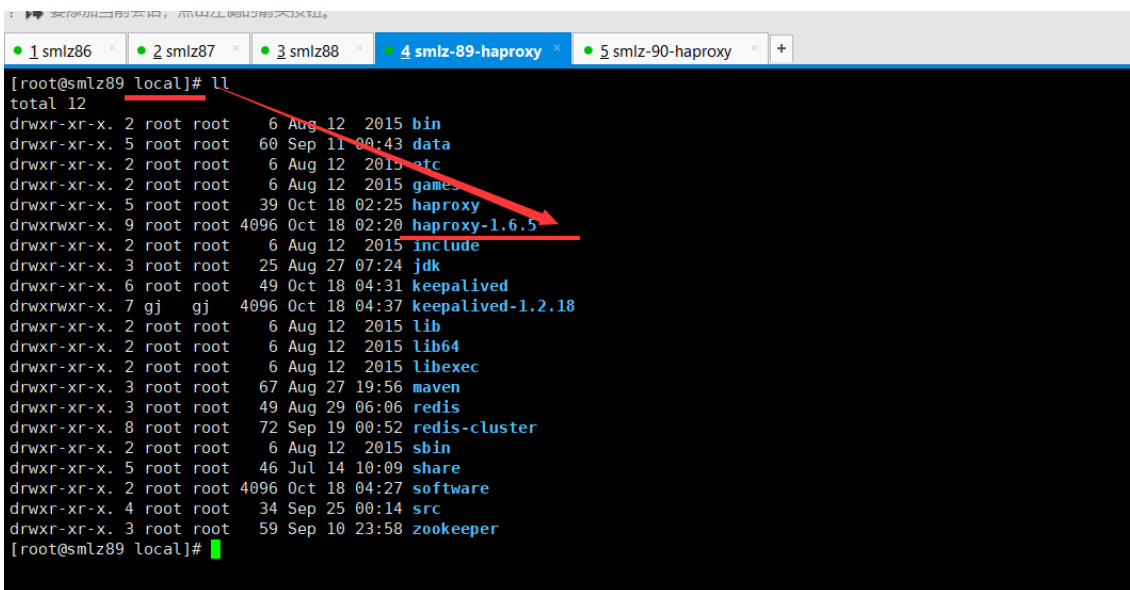
wget http://www.[haproxy.org](http://www.haproxy.org)/download/1.6/src/haproxy-1.6.5.tar.gz (貌似国内访问不了这个连接)
老师会提供这个安装包

```
[root@smlz89 local]# cd software/
[root@smlz89 software]# ll
total 215964
-rw-r--r--. 1 root root 18345424 Apr  5 2016 erlang-18.3-1.el7.centos.x86_64.rpm
-rw-r--r--. 1 root root 1563272 Oct 18 01:58 haproxy-1.6.5.tar.gz
-rw-r--r--. 1 root root 195994741 Aug 27 00:35 jdk-8u221-linux-x64.tar.gz
-rw-r--r--. 1 root root 330361 Dec  1 2016 keepalived-1.2.18.tar.gz
-rw-r--r--. 1 root root 5520417 Aug  5 2016 rabbitmq-server-3.6.5-1.noarch.rpm
-rw-r--r--. 1 root root 284676 Jun 23 2017 socat-1.7.3.2-5.el7.linux.x86_64.rpm
[root@smlz89 software]# pwd
/usr/local/software
[root@smlz89 software]#
```

3)cd /usr/local/software 进行解压

tar -zxvf haproxy-1.6.5.tar.gz -C /usr/local

解压后会在 /usr/local 中生成一个文件 haproxy-1.6.5文件夹



```
[root@smlz89 local]# ll
total 12
drwxr-xr-x. 2 root root  6 Aug 12 2015 bin
drwxr-xr-x. 5 root root 60 Sep 11 00:43 data
drwxr-xr-x. 2 root root  6 Aug 12 2015 etc
drwxr-xr-x. 2 root root  6 Aug 12 2015 games
drwxr-xr-x. 5 root root 39 Oct 18 02:25 haproxy
drwxrwxr-x. 9 root root 4096 Oct 18 02:20 haproxy-1.6.5
drwxr-xr-x. 2 root root  6 Aug 12 2015 include
drwxr-xr-x. 3 root root 25 Aug 27 07:24 jdk
drwxr-xr-x. 6 root root 49 Oct 18 04:31 keepalived
drwxrwxr-x. 7 gj  gj 4096 Oct 18 04:37 keepalived-1.2.18
drwxr-xr-x. 2 root root  6 Aug 12 2015 lib
drwxr-xr-x. 2 root root  6 Aug 12 2015 lib64
drwxr-xr-x. 2 root root  6 Aug 12 2015 libexec
drwxr-xr-x. 3 root root 67 Aug 27 19:56 maven
drwxr-xr-x. 3 root root 49 Aug 29 06:06 redis
drwxr-xr-x. 8 root root 72 Sep 19 00:52 redis-cluster
drwxr-xr-x. 2 root root  6 Aug 12 2015 sbin
drwxr-xr-x. 5 root root 46 Jul 14 10:09 share
drwxr-xr-x. 2 root root 4096 Oct 18 04:27 software
drwxr-xr-x. 4 root root 34 Sep 25 00:14 src
drwxr-xr-x. 3 root root 59 Sep 10 23:58 zookeeper
[root@smlz89 local]#
```

4)进入目录、进行编译、安装

4.1)cd /usr/local/haproxy-1.6.5 进入解压目录

4.2)编译 make TARGET=linux31 PREFIX=/usr/local/haproxy

4.3) 安装: make install PREFIX=/usr/local/haproxy

安装目录:

```
[root@smlz89 local]# ll
total 12
drwxr-xr-x. 2 root root 6 Aug 12 2015 bin
drwxr-xr-x. 5 root root 60 Sep 11 00:43 data
drwxr-xr-x. 2 root root 6 Aug 12 2015 etc
drwxr-xr-x. 2 root root 6 Aug 12 2015 games
drwxr-xr-x. 5 root root 39 Oct 18 02:25 haproxy
drwxrwxr-x. 9 root root 4096 Oct 18 02:20 haproxy-1.6.5
drwxr-xr-x. 2 root root 6 Aug 12 2015 include
drwxr-xr-x. 3 root root 25 Aug 27 07:24 jdk
drwxr-xr-x. 6 root root 49 Oct 18 04:31 keepalived
drwxrwxr-x. 7 gj gj 4096 Oct 18 04:37 keepalived-1.2.18
drwxr-xr-x. 2 root root 6 Aug 12 2015 lib
drwxr-xr-x. 2 root root 6 Aug 12 2015 lib64
drwxr-xr-x. 2 root root 6 Aug 12 2015 libexec
drwxr-xr-x. 3 root root 67 Aug 27 19:56 maven
drwxr-xr-x. 3 root root 49 Aug 29 06:06 redis
drwxr-xr-x. 8 root root 72 Sep 19 00:52 redis-cluster
drwxr-xr-x. 2 root root 6 Aug 12 2015 sbin
drwxr-xr-x. 5 root root 46 Jul 14 10:09 share
drwxr-xr-x. 2 root root 4096 Oct 18 04:27 software
drwxr-xr-x. 4 root root 34 Sep 25 00:14 src
drwxr-xr-x. 3 root root 59 Sep 10 23:58 zookeeper
[root@smlz89 local]#
```

4.4)创建 一个haproxy的目录 用于存放haproxy的配置文件:

创建目录: `mkdir /etc/haproxy`

赋权:

`groupadd -r -g 149 haproxy`

`useradd -g haproxy -r -s /sbin/nologin -u 149 haproxy`

创建配置文件

`touch /etc/haproxy/haproxy.cfg`

5:)haproxy.cfg配置文件详解

```
#logging options
global
    log 127.0.0.1 local0 info
    maxconn 5120
    chroot /usr/local/haproxy
    uid 99
    gid 99
    daemon
    quiet
    nbproc 20
    pidfile /var/run/haproxy.pid

defaults
    log global
    #使用4层代理模式, "mode http"为7层代理模式
    mode tcp
    #if you set mode to tcp,then you must change tcplog into httplog
    option tcplog
    option dontlognull
    retries 3
    option redispatch
    maxconn 2000
    contimeout 5s
```

```

##客户端空闲超时时间为 60秒 则HA 发起重连机制
clitimeout 60s
##服务器端链接超时时间为 15秒 则HA 发起重连机制
srvtimeout 15s
#front-end IP for consumers and producers

listen rabbitmq_cluster
#监听的端口
bind 0.0.0.0:5672
#配置TCP模式
mode tcp
#简单的轮询
balance roundrobin
##=====超级 超级 重要防止应用程序连接关闭=====
timeout client 3h
timeout server 3h
#rabbitmq集群节点配置 #inter 每隔五秒对mq集群做健康检查, 2次正确证明服务器可用, 2次失败证明服务器不可用, 并且配
server smlz86 192.168.159.86:5672 check inter 5000 rise 2 fall 2
server smlz87 192.168.159.87:5672 check inter 5000 rise 2 fall 2
server smlz88 192.168.159.88:5672 check inter 5000 rise 2 fall 2
#配置haproxy web监控, 查看统计信息
listen stats
bind 192.168.159.89:8100
mode http
option httplog
stats enable
#设置haproxy监控地址为http://192.168.159.89:8100/rabbitmq-stats
stats uri /rabbitmq-stats
stats refresh 5s

```

6)启动haproxy

`/usr/local/haproxy/sbin/haproxy -f /etc/haproxy/haproxy.cfg`

7) 查看haproxy是否启动? `ps-ef|grep rabbitmq`

```

[root@smlz89 local]# ps -ef|grep haproxy
nobody 13317 1 0 00:18 ? 00:00:00 /usr/local/haproxy/sbin/haproxy -f /etc/haproxy/haproxy.cfg
nobody 13318 1 0 00:18 ? 00:00:00 /usr/local/haproxy/sbin/haproxy -f /etc/haproxy/haproxy.cfg
nobody 13319 1 0 00:18 ? 00:00:00 /usr/local/haproxy/sbin/haproxy -f /etc/haproxy/haproxy.cfg
nobody 13320 1 0 00:18 ? 00:00:00 /usr/local/haproxy/sbin/haproxy -f /etc/haproxy/haproxy.cfg
nobody 13321 1 0 00:18 ? 00:00:00 /usr/local/haproxy/sbin/haproxy -f /etc/haproxy/haproxy.cfg
nobody 13322 1 0 00:18 ? 00:00:00 /usr/local/haproxy/sbin/haproxy -f /etc/haproxy/haproxy.cfg
nobody 13323 1 0 00:18 ? 00:00:00 /usr/local/haproxy/sbin/haproxy -f /etc/haproxy/haproxy.cfg
nobody 13324 1 0 00:18 ? 00:00:00 /usr/local/haproxy/sbin/haproxy -f /etc/haproxy/haproxy.cfg
nobody 13325 1 0 00:18 ? 00:00:00 /usr/local/haproxy/sbin/haproxy -f /etc/haproxy/haproxy.cfg
nobody 13326 1 0 00:18 ? 00:00:00 /usr/local/haproxy/sbin/haproxy -f /etc/haproxy/haproxy.cfg
nobody 13327 1 0 00:18 ? 00:00:00 /usr/local/haproxy/sbin/haproxy -f /etc/haproxy/haproxy.cfg
nobody 13328 1 0 00:18 ? 00:00:00 /usr/local/haproxy/sbin/haproxy -f /etc/haproxy/haproxy.cfg
nobody 13329 1 0 00:18 ? 00:00:00 /usr/local/haproxy/sbin/haproxy -f /etc/haproxy/haproxy.cfg
nobody 13330 1 0 00:18 ? 00:00:00 /usr/local/haproxy/sbin/haproxy -f /etc/haproxy/haproxy.cfg
nobody 13331 1 0 00:18 ? 00:00:00 /usr/local/haproxy/sbin/haproxy -f /etc/haproxy/haproxy.cfg
nobody 13332 1 0 00:18 ? 00:00:00 /usr/local/haproxy/sbin/haproxy -f /etc/haproxy/haproxy.cfg
nobody 13333 1 0 00:18 ? 00:00:00 /usr/local/haproxy/sbin/haproxy -f /etc/haproxy/haproxy.cfg
nobody 13334 1 0 00:18 ? 00:00:00 /usr/local/haproxy/sbin/haproxy -f /etc/haproxy/haproxy.cfg
nobody 13335 1 0 00:18 ? 00:00:00 /usr/local/haproxy/sbin/haproxy -f /etc/haproxy/haproxy.cfg
nobody 13336 1 0 00:18 ? 00:00:00 /usr/local/haproxy/sbin/haproxy -f /etc/haproxy/haproxy.cfg
root 13433 3479 0 00:20 pts/0 00:00:00 grep --color=auto haproxy
[root@smlz89 local]#

```

haproxy的监控台访问

<http://192.168.159.89:8100/rabbitmq-stats>

HAProxy version 1.6.5, released 2016/05/10

Statistics Report for pid 13327

> General process information

pid = 13327 (process #11, nproc = 20)
uptime = 6d 0h03m3s
system limits: memmax = unlimited, ulimit-s = 10255
maxsock = 10255, maxconn = 5120, maxpipes = 0
current conn = 2, current pipes = 0/0, conn rate = 1/sec
Running tasks: 2/8, idle = 100 %

active UP
active UP, going down
active DOWN, going up
active or backup DOWN
active or backup DOWN for maintenance (MAINT)
active or backup SOFT STOPPED for maintenance
Note: "NOLB/DRAIN" = UP with load-balancing disabled

Display option:

- Scope
- Hide DOWN servers
- Disable refresh
- Refresh now
- CSV export

External resources:
- [rabbitmq 3.9.0](#)
- [rabbitmq \(v1.5\)](#)
- [Online manual](#)

rabbitmq_cluster																													
	Cur	Queue Max	Limit	Session rate			Sessions			Bytes			Denied		Errors		Warnings		Status		LastChk	Server							
				Cur	Max	Limit	Cur	Max	Limit	Total	LbTot	Last	In	Out	Req	Resp	Conn	Resp	Retr	Redis		Act	Bck	Chk	Dwn	Dwtime	Thrte		
Frontend		0	0	-	0	0	-	0	0	2 000	0	0	0	0	0	0	0	0	0	0	OPEN								
sm1z86		0	0	-	0	0	-	0	0	-	0	0	?	0	0	0	0	0	0	0	3m33s UP	L4OK in 1ms	1	Y	-	0	0	0s	-
sm1z87		0	0	-	0	0	-	0	0	-	0	0	?	0	0	0	0	0	0	0	3m33s UP	L4OK in 1ms	1	Y	-	0	0	0s	-
sm1z88		0	0	-	0	0	-	0	0	-	0	0	?	0	0	0	0	0	0	0	3m33s UP	L4OK in 0ms	1	Y	-	0	0	0s	-
Backend		0	0	-	0	0	-	0	0	200	0	0	?	0	0	0	0	0	0	0	3m33s UP		3	3	0	0	0	0s	-

stats																													
	Cur	Queue Max	Limit	Session rate			Sessions			Bytes			Denied		Errors		Warnings		Status		LastChk	Server							
				Cur	Max	Limit	Cur	Max	Limit	Total	LbTot	Last	In	Out	Req	Resp	Conn	Resp	Retr	Redis		Act	Bck	Chk	Dwn	Dwtime	Thrte		
Frontend		1	1	-	2	2	-	2	2	2 000	2	0	0	0	0	0	0	0	0	0	OPEN								
Backend		0	0	-	0	0	-	0	0	200	0	0	0	0	0	0	0	0	0	0	3m33s UP		0	0	0	0	0	0s	-

关闭haproxy命令

killall haproxy

三:集群测试

应用程序客户端连接地址:如下 (生产端)

```
server.port=8888
spring.rabbitmq.host=192.168.159.89
spring.rabbitmq.port=5672
spring.rabbitmq.virtual-host=/
spring.rabbitmq.username=guest
spring.rabbitmq.password=guest
```

3.1) 发送消息到集群上



Overview Connections Channels Exchanges **Queues** Admin

Queues

▼ All queues (5)

Pagination

Page 1 of 1 - Filter: ☐ Regexp (?)

Overview				Messages			Message rates			+/-
Name	Node	Features	State	Ready	Unacked	Total	incoming	deliver / get	ack	
tulingBootDelayQueue	sm1z87	±2	idle	0	0	0				
tulingBootQueue	sm1z87	±2	idle	1	0	1	0.00/s	0.00/s	0.00/s	
tulingBootQueue2	sm1z87	±2	idle	1	0	1	0.00/s	0.00/s	0.00/s	
tulingBootQueue3	sm1z87	±2	idle	0	0	0				
tulingClusterQueue	sm1z87	±2	idle	0	0	0				



Overview Connections Channels Exchanges **Queues** Admin

Queues

▼ All queues (5)

Pagination

Page 1 ▼ of 1 - Filter: ☐ Regex (?) (?)

Overview				Messages			Message rates			+/-
Name	Node	Features	State	Ready	Unacked	Total	incoming	deliver / get	ack	
tulingBootDelayQueue	smlz87	±2 [D] [ha-all]	idle	0	0	0				
tulingBootQueue	smlz87	±2 [D] [ha-all]	idle	1	0	1	0.00/s	0.00/s	0.00/s	
tulingBootQueue2	smlz87	±2 [D] [ha-all]	idle	1	0	1	0.00/s	0.00/s	0.00/s	
tulingBootQueue3	smlz87	±2 [D] [ha-all]	idle	0	0	0				
tulingClusterQueue	smlz87	±2 [D] [ha-all]	idle	0	0	0				

► Add a new queue



Overview Connections Channels Exchanges **Queues** Admin

Queues

▼ All queues (5)

Pagination

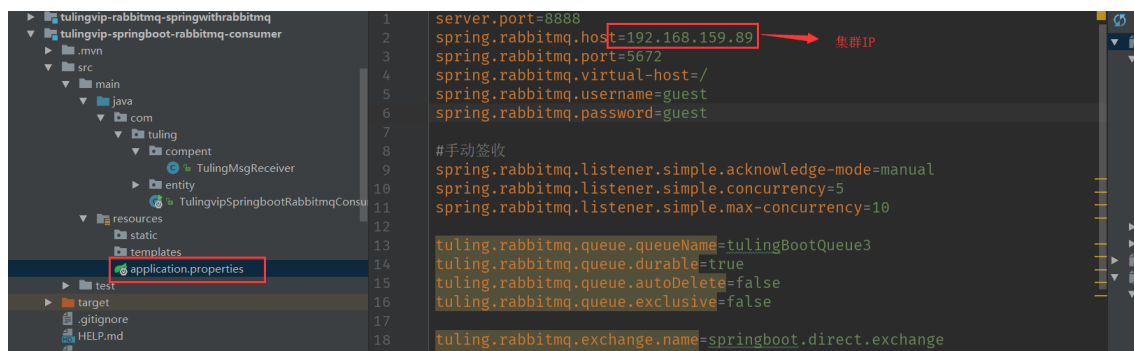
Page 1 ▼ of 1 - Filter: ☐ Regex (?) (?)

Overview				Messages			Message rates			+/-
Name	Node	Features	State	Ready	Unacked	Total	incoming	deliver / get	ack	
tulingBootDelayQueue	smlz87	±2 [D] [ha-all]	idle	0	0	0				
tulingBootQueue	smlz87	±2 [D] [ha-all]	idle	1	0	1	0.00/s	0.00/s	0.00/s	
tulingBootQueue2	smlz87	±2 [D] [ha-all]	idle	1	0	1	0.00/s	0.00/s	0.00/s	
tulingBootQueue3	smlz87	±2 [D] [ha-all]	idle	0	0	0				
tulingClusterQueue	smlz87	±2 [D] [ha-all]	idle	0	0	0				

► Add a new queue

HTTP API | Command Line

消费端:连接配置:



启动集群:

