


# haproxy+keepalived反向代理，查看状态，后端主机上下线配置



think\_lonely (/u/5187a8641085) [+ 关注](#)

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(/u/5187a8641085)

本文描述的是haproxy做代理，负载均衡，haproxy状态查看，后端主机的上下线，keepalived高可用

## 一、前提条件

### 1.1 至少两台服务器 操作系统为centos7

IP：192.168.238.138/24机器名：ceph4

IP：192.168.238.139/24机器名：ceph5

### 1.2 部署软件（两台都有）：

Keepalived高可用

Haproxy1.7.9反向代理

Apache HTTP后端主机

### 1.3 在两台主机设置分别机器名

```
#hostnamectl ceph4
```

```
#hostnamectl ceph4
```

### 1.4编辑vi /etc/hosts中加入(两台都有)

```
#加入本机的域名解析
```

```
192.168.238.138 ceph4
```

```
192.168.238.139 ceph5
```

### 1.5 关闭防火墙，selinux(两台都有)

```
#systemctl stop firewalld#停止正在运行的防火墙
```

```
#systemctl disabled firewalld#禁止开机启动
```

```
#setenforce 0#临时禁止selinux
```

```
#sed -i "s/^SELINUX\|=enforcing/SELINUX\|=disabled/g"/etc/selinux/config#永久禁止
```

(/apps/  
utm\_sc  
banner

## 二、安装配置后端软件apache http

### 2.1 安装http软件（两台都有）

```
#yum install httpd -y
```

### 2.2 编辑配置文件改监听的端口

安装完编辑vi /etc/httpd/conf/httpd.conf

Listen 8080 #监听端口改为8080，可以不修改，我的是主机的80端口已经被占用

### 2.3 配置访问的页面

Ceph4：

```
#echo 'ceph4' >/var/www/html/index.html
```

Ceph5：

```
#echo 'ceph5' >/var/www/html/index.html
```

### 2.4 启动http并测试

```
#systemctl start httpd
```

```
#curl ceph4:8080
```

ceph4#结果不同，以方便之后的测试

```
#curl ceph5:8080
```

ceph5

(https:/  
click.y  
slot=30  
0b8b-4  
338d4!

## 三、Haproxy安装部署

下边的操作两个节点都需要安装



### 3.1 相关系统包的安装

```
#yum install -y gcc glibc gcc-c++ make screen tree lrzsz
```

### 3.2 Haproxy安装

```
#mkdir /soft#创建目录
```

```
#cd /soft/
```

```
#wgethttp://www.haproxy.org/download/1.7/src/haproxy-1.7.9.tar.gz
(https://link.jianshu.com?t=http://www.haproxy.org/download/1.7/src/haproxy-1.7.9.tar.gz)#下载安装包
```

```
#tar xf haproxy-1.7.9.tar.gz#解压
```

```
#cd haproxy-1.7.9
```

```
#make TARGET=linux2628 PREFIX=/usr/local/haproxy1.7.9#编译
```

```
#make install#安装
```

```
install -d "/usr/local/sbin"
```

```
install haproxy"/usr/local/sbin"
```

```
install -d "/usr/local/share/man"/man1
```

```
install -m 644 doc/haproxy.1 "/usr/local/share/man"/man1
```

```
install -d "/usr/local/doc/haproxy"
```

```
for x in configuration management architecture cookie-options luaWURFL-device-
detection proxy-protocol linux-syn-cookies network-namespacesDeviceAtlas-device-
detection 51Degrees-device-detectionnetscaler-client-ip-insertion-protocol close-
options SPOE intro; do \
```

```
install -m 644doc/$x.txt "/usr/local/doc/haproxy" ; \
```

```
#cp /usr/local/sbin/haproxy /usr/sbin/#启动文件
```

```
#haproxy-v#查看安装结果
```

```
HA-Proxy version 1.7.9 2017/08/18
```

```
Copyright 2000-2017 Willy Tarreauwilly@haproxy.org (https://link.jianshu.com?
t=mailto:willy@haproxy.org)
```

(/apps/  
utm\_sc  
banner

(https:/  
click.y  
slot=30  
0b8b-4  
338d4!



创建haproxy启动脚本

```
#cp examples/haproxy.init /etc/init.d/haproxy

#/etc/init.d/haproxy start#启动
```

(/apps/  
utm\_sc  
banner

创建需要的相关的目录

```
#useradd -r haproxy

#mkdir /etc/haproxy

#mkdir /var/lib/haproxy

#mkdir /var/run/haproxy
```

编辑haproxy配置文件

```
#vi /etc/haproxy/haproxy.cfg

global

log 127.0.0.1 local3 info

chroot /var/lib/haproxy

maxconn10000#设置允许的最大连接数，需要考虑ulimit -n的限制

user haproxy

group haproxy

daemon

defaults

log global

mode http

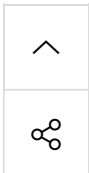
option httplog

option dontlognull

timeout connect 5000

timeout client 50000
```

(https:/  
click.ye  
slot=30  
0b8b-4  
338d4!



```
timeout server 50000
```

```
frontend front#前端
```

```
mode http
```

```
bind *:8088#这里的端口为8088，也可以是其他为占用的端口
```

```
stats uri /haproxy?stats
```

```
default_backend default_backend
```

```
backend default_backend#后端
```

```
#source cookie SERVERID
```

```
option forwardfor header X-REAL-IP
```

```
option httpchk GET /index.html#检查的url
```

```
balance roundrobin
```

```
server ceph5 192.168.238.139:8080 check inter 2000 rise 3 fall 3 weight1
```

```
server ceph4 192.168.238.138:8080 check inter 2000 rise 3 fall 3 weight1
```

## 日志设置

```
#sed -i 's@#\#$ModLoad imudp@#\#$ModLoad imudp@g' /etc/rsyslog.conf
```

```
#sed-i 's@#\#$UDPServerRun514@#\#$UDPServerRun 514@g' /etc/rsyslog.conf
```

```
#echo "local3.* /var/log/haproxy.log" >> /etc/rsyslog.conf
```

## 启动：

```
#/etc/init.d/haproxy start
```

**Starting haproxy (via systemctl):[OK]**

## 测试：

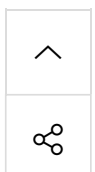
**# ceph5的haproxy配置正常**

```
[root@ceph4 ~]# curl ceph5:8088
```

```
ceph5
```

(/apps/  
utm\_sc  
banner

(https:/  
click.y  
slot=3  
0b8b-4  
338d4!



```
[root@ceph4 ~]# curlceph5:8088
```

ceph4

**# ceph4的haproxy配置正常**

```
[root@ceph4 ~]# curlceph4:8088
```

ceph5

```
[root@ceph4 ~]# curlceph4:8088
```

ceph4

看到访问url的结果是两台服务器轮换相应。

### 状态管理页面

在浏览器访问<http://192.168.238.138:8088/haproxy?stats> (<https://link.jianshu.com?t=http://192.168.238.138:8088/haproxy?stats>)，查看状态

(/apps/  
utm\_sc  
banner

(https:/  
click.y  
slot=30  
0b8b-4  
338d4!

### 3.3 Haproxy动态维护（两点都需要）

在配置文件的global下添加socket文件

```
stats socket /var/lib/haproxy/haproxy.sockmode 600 level admin
```

```
stats timeout 2m
```

#### 安装socat

```
#yum install -y socat
```

查看haproxy的帮助

```
#echo "help" |socat stdio /var/lib/haproxy/haproxy.sock
```



查看info状态信息，可以通过zabbix来监控相关状态值

```
#echo "show info" |socat stdio/var/lib/haproxy/haproxy.sock
```

Name: HAProxy

Version: 1.7.9

Release\_date: 2017/08/18

Nbproc: 1

Process\_num: 1

Pid: 5145

Uptime: 0d 0h03m34s

Uptime\_sec: 214

Memmax\_MB: 0

PoolAlloc\_MB: 0

PoolUsed\_MB: 0

PoolFailed: 0

Ulimit-n: 20033

Maxsock: 20033

Maxconn: 10000

Hard\_maxconn: 10000

CurrConns: 0

CumConns: 4

CumReq: 4

Maxpipes: 0

PipesUsed: 0

PipesFree: 0

(/apps/  
utm\_sc  
banner

(https://  
click.ye  
slot=30  
0b8b-4  
338d4!

^

ConnRate: 0	
ConnRateLimit: 0	
MaxConnRate: 0	(/apps/ utm_sc banner
SessRate: 0	
SessRateLimit: 0	
MaxSessRate: 0	
CompressBpsIn: 0	
CompressBpsOut: 0	
CompressBpsRateLim: 0	
Tasks: 7	
Run_queue: 1	(https:/
Idle_pct: 100	click.ye
node: ceph4	slot=30
	0b8b-4
	338d4!

haproxy维护模式（主机上下线）

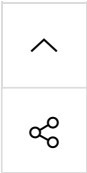
在ceph4上做测试，下线default\_backend下的ceph4主机

```
#echo "disable server default_backend/ceph4 " |socat  
stdio:/var/lib/haproxy/haproxy.sock
```

注：ceph4已经不在线

上线default\_backend下的ceph4

```
#echo "enable server default_backend/ceph4 " |socat  
stdio:/var/lib/haproxy/haproxy.sock
```





注：ceph4恢复

### 3.4 Haproxy生产使用建议

haproxy的本地端口会出现用尽情况，解决方案如下4条

#### 1.更改local的端口范围,调整内核参数

```
#cat /proc/sys/net/ipv4/ip_local_port_range
```

```
3276861000
```

#### 2.调整timewait的端口复用，设置为1

```
#cat /proc/sys/net/ipv4/tcp_tw_reuse
```

```
1
```

#### 3.调整tcp\_wait的时间，不建议修改

```
#cat /proc/sys/net/ipv4/tcp_fin_timeout
```

```
60
```

#### 4.最佳方案：增加多个ip，端口数量就足够

(/apps/  
utm\_sc  
banner

(https:/  
click.y  
slot=30  
0b8b-4  
338d4!

## 四、Keepalived

### Mail配置使用

#### 4.1安装mailx邮件服务

```
yum install mailx -y
```

#配置文件追加信息 (/etc/mail.rc)

```
vim /etc/mail.rc
```

```
#发件人信息
```

```
set from=zhouguanjie2005@163.com#发件人邮箱地址(163设置得开起允许代理)
```

```
set smtp=smtp.163.com#smtp地址
```



set smtp-auth-user=zhouguanjie2005@163.com#邮箱用户名，不用加域名

set smtp-auth-password=\*\*\*\*\*#邮箱密码（邮件密码是smtp代理授权码）

set smtp-auth=login#邮箱验证方式

#测试发送

echo "hello world" | mail -s"hello"18706768942@163.com (https://link.jianshu.com?t=mailto:18706768942@163.com)zhuguanjie@qq.com#会看到测试邮件信息，可以发送多个邮件

#echo "邮件内容"

| mail -s "标题"邮箱地址

#最好把你的发送邮件地址加入你接收邮箱的白名单，不然发多了可能被认为发送垃圾邮件而被163拒绝，这是真的

#### 4.2.安装配置keepalived（两节点都需要）

# yum install -y keepalived

# keepalived -v#查看版本

Keepalived v1.3.5 (03/19,2017), git commit v1.3.5-6-g6fa32f2

在/etc/keepalived下建立文件如下（两节点）：

# ls

check\_haproxy.sh check\_haproxy\_url.sh down.sh keepalived.conf vrrp.sh

#主要是一些脚本和keepalived配置文件

# vi check\_haproxy.sh#检测haproxy进程是否存子，不存在的话重启

#!/bin/bash

counter=\$(ps -C haproxy --no-heading|wc -l)

if [ "\${counter}" = "0" ]; then

/etc/init.d/haproxy start

fi

exit 0

(/apps/  
utm\_sc  
banner

(https://  
click.y  
slot=30  
0b8b-4  
338d4!



**# vi check\_haproxy\_url.sh#通过url检测如果不成功返回非0，待达到次数后，keepalived会降权值变为backup节点**

```
#!/bin/bash

# curl -ILhttp://localhost/member/login.htm

# curl --data"memberName=fengkan&password=22" http://localhost/member/login.htm

count=0

for (( k=0; k<2; k++ ))

do

check_code=$( curl --connect-timeout 3 -sL -w"%{http_code}\\n"
http://localhost:8088/index.html -o /dev/null )

if [ "$check_code" != "200" ]; then

# count = count +1

let "count += 1"

continue

else

count=0

break

fi

done

if [ "$count" != "0" ];then

#/etc/init.d/keepalived stop

exit 1

else

exit 0

fi
```

(/apps/  
utm\_sc  
banner

(https:/  
click.y  
slot=3(  
0b8b-4  
338d4!



**# vi down.sh#维护用的脚本，不需要手动关闭keepalived**

```
#!/bin/bash
```

```
#判断down文件是否存在，在需要维护的时候，建立一个down文件，虚拟地址会自动转  
移走
```

```
if [-f /etc/keepalived/down ]; then
```

```
exit 1
```

```
else
```

```
exit 0
```

```
fi
```

**# vi vrrp.sh (ceph4)#状态发生变换，邮件提醒**

```
#!/bin/bash
```

```
#当状态发生变换的时候，发送邮件提醒
```

```
echo "192.168.238.138 ceph4$1状态被激活，请确认HAProxy服务运行状态"|mail -s  
"HAProxy状态切换警告"15063176713@139.com (https://link.jianshu.com?  
t=mailto:15063176713@139.com)
```

**# vi vrrp.sh (ceph5)#状态发生变换，邮件提醒**

```
#!/bin/bash
```

```
echo "192.168.238.139 ceph5$1状态被激活，请确认HAProxy服务运行状态"|mail -s  
"HAProxy状态切换警告"15063176713@139.com (https://link.jianshu.com?  
t=mailto:15063176713@139.com)
```

**建立完脚本后不要忘记赋予可执行的权限**

```
#chmod +x check_haproxy.sh check_haproxy_url.sh vrrp.sh down.sh
```

**Keepalived主配置文件**

这里ceph4为master节点，ceph5为backup节点

**ceph4 :**

**vi /etc/keepalived/keepalived.conf**

! Configuration File for keepalived

(/apps/  
utm\_sc  
banner

(https://  
click.y  
slot=30  
0b8b-4  
338d4!



```
global_defs {
```

```
notification_email {
```

```
acassen
```

```
}
```

```
notification_email_from Alexandre.Cassen@firewall.loc
```

```
smtp_server 192.168.200.1
```

```
smtp_connect_timeout 30
```

```
router_id LVS_DEVEL
```

```
}
```

```
vrrp_script chk_haproxy_url {
```

```
script "/etc/keepalived/check_haproxy_url.sh"#查看链接是否能正常访问，不正常两次后降级，看下边的配置
```

```
interval 2# check every 2 seconds
```

```
weight -5
```

```
fall 2#失败两次后，触发weight减5操作,想有降级操作必须有
```

```
rise 2#成功两次后，恢复
```

```
}
```

```
vrrp_script chk_haproxy {
```

```
script "/etc/keepalived/check_haproxy.sh"#查看haproxy进程是否存在，不存在的话启动，无降权
```

```
interval 2#check every 2 seconds，执行的时间间隔
```

```
}
```

```
vrrp_script chk_maintenance_down {
```

```
script "/etc/keepalived/down.sh"
```

```
interval 2# check every 2 seconds
```

(/apps/  
utm\_sc  
banner

(https:/  
click.y  
slot=30  
0b8b-4  
338d4!



```
weight -5
```

```
fall 2#维护操作命令，在/etc/keepalived建立down文件开始维护
```

```
rise 2
```

```
}
```

```
vrrp_instance VI_1 {
```

```
state MASTER#这里主备不一样，注意
```

```
interface ens33#根据自己的网卡修改
```

```
virtual_router_id 50
```

```
#nopreempt
```

```
priority 101#设置优先级
```

```
advert_int 1
```

```
virtual_ipaddress {
```

```
192.168.238.200#虚拟IP地址
```

```
}
```

```
track_script {
```

```
chk_haproxy_url#与上边的执行vrrp_script脚本对应
```

```
chk_haproxy
```

```
chk_maintenance_down
```

```
}
```

```
#状态转换的时候，邮件告警
```

```
notify_backup "/etc/keepalived/vrrp.shBACKUP"
```

```
notify_master "/etc/keepalived/vrrp.shMASTER"
```

```
notify_fault "/etc/keepalived/vrrp.shFAULT"
```

```
}
```

(/apps/  
utm\_sc  
banner

(https:/  
click.y  
slot=30  
0b8b-4  
338d4!



Ceph5

backup节点

#这里只标出与master不一样的地方，其他同上

vi /etc/keepalived/keepalived.conf

! Configuration File for keepalived

global\_defs {

notification\_email {

acassen

}

notification\_email\_from Alexandre.Cassen@firewall.loc

smtp\_server 192.168.200.1

smtp\_connect\_timeout 30

router\_id LVS\_DEVEL

}

vrrp\_script chk\_haproxy\_url {

script "/etc/keepalived/check\_haproxy\_url.sh"# cheaper than pidof

interval 2#check every 2 seconds

weight -5

fall 2

rise 2

}

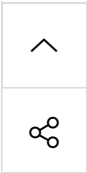
vrrp\_script chk\_haproxy {

script "/etc/keepalived/check\_haproxy.sh"# cheaper than pidof

interval 2#check every 2 seconds

(/apps/  
utm\_sc  
banner

(https:/  
click.ye  
slot=30  
0b8b-4  
338d4!



```
}

vrrp_script chk_maintenance_down {

script "/etc/keepalived/down.sh"

interval 2#check every 2 seconds

weight -5

fall 2

rise 2

}

vrrp_instance VI_1 {

state BACKUP#这里为BACKUP

interface ens33

virtual_router_id 50

#nopreempt

priority 100#设置级别

advert_int 1

virtual_ipaddress {

192.168.238.200

}

track_script {

chk_haproxy_url

chk_haproxy

chk_maintenance_down

}

notify_backup "/etc/keepalived/vrrp.shBACKUP"
```

(/apps/  
utm\_sc  
banner

(https:/  
click.ye  
slot=30  
0b8b-4  
338d4!





```
notify_master "/etc/keepalived/vrrp.shMASTER"
```

```
notify_fault"/etc/keepalived/vrrp.shFAULT"
```

```
}
```

测试:

分别启动keepalived

会看到

Ceph4日志:

```
# tailf /var/log/messages
```

```
Sep 21 15:09:55 ceph4 Keepalived[50677]:Starting Keepalived v1.3.5 (03/19,2017), git
commit v1.3.5-6-g6fa32f2
```

```
Sep 21 15:09:55 ceph4 Keepalived[50677]:Unable to resolve default script username
'keepalived_script' - ignoring
```

```
Sep 21 15:09:55 ceph4 Keepalived[50677]:Opening file
'/etc/keepalived/keepalived.conf'.
```

```
Sep 21 15:09:55 ceph4 systemd: PID file/var/run/keepalived.pid not readable (yet?)
after start.
```

```
Sep 21 15:09:55 ceph4 Keepalived[50678]:Starting Healthcheck child process,
pid=50679
```

```
Sep 21 15:09:55 ceph4 Keepalived[50678]:Starting VRRP child process, pid=50680
```

```
Sep 21 15:09:55 ceph4 systemd: Started LVSand VRRP High Availability Monitor.
```

```
Sep 21 15:09:55 ceph4Keepalived_healthcheckers[50679]: Opening file
'/etc/keepalived/keepalived.conf'.
```

```
Sep 21 15:09:55 ceph4Keepalived_vrrp[50680]: Registering Kernel netlink reflector
```

```
Sep 21 15:09:55 ceph4Keepalived_vrrp[50680]: Registering Kernel netlink command
channel
```

```
Sep 21 15:09:55 ceph4Keepalived_vrrp[50680]: Registering gratuitous ARP shared
channel
```

(/apps/  
utm\_sc  
banner

(https:/  
click.y  
slot=3(  
0b8b-4  
338d4!



Sep 21 15:09:55 ceph4Keepalived\_vrrp[50680]: Opening file  
'/etc/keepalived/keepalived.conf'.

Sep 21 15:09:55 ceph4Keepalived\_vrrp[50680]: VRRP\_Instance(VI\_1) removing  
protocol VIPs.

(/apps/  
utm\_sc  
banner

Sep 21 15:09:55 ceph4 Keepalived\_vrrp[50680]:Unsafe permissions found for script  
'/etc/keepalived/check\_haproxy\_url.sh'.

Sep 21 15:09:55 ceph4Keepalived\_vrrp[50680]: SECURITY VIOLATION - scripts are  
being executed butscript\_security not enabled. There are insecure scripts.

Sep 21 15:09:55 ceph4Keepalived\_vrrp[50680]: Using LinkWatch kernel netlink  
reflector...

Sep 21 15:09:55 ceph4Keepalived\_vrrp[50680]: VRRP sockpool: [ifindex(2),  
proto(112), unicast(0),fd(10,11)]

Sep 21 15:09:55 ceph4Keepalived\_vrrp[50680]: VRRP\_Script(chk\_maintaince\_down)  
succeeded

Sep 21 15:09:55 ceph4Keepalived\_vrrp[50680]: VRRP\_Script(chk\_haproxy)  
succeeded

(https:/  
click.y  
slot=3(  
0b8b-4  
338d4!

Sep 21 15:09:55 ceph4Keepalived\_vrrp[50680]: VRRP\_Script(chk\_haproxy\_url)  
succeeded

Sep 21 15:09:56 ceph4Keepalived\_vrrp[50680]: VRRP\_Instance(VI\_1) Transition to  
MASTER STATE

**Sep21 15:09:57 ceph4 Keepalived\_vrrp[50680]: VRRP\_Instance(VI\_1) Entering  
MASTERSTATE#现在虚拟地址在主节点上**

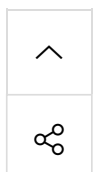
Sep 21 15:09:57 ceph4Keepalived\_vrrp[50680]: VRRP\_Instance(VI\_1) setting protocol  
VIPs.

Sep 21 15:09:57 ceph4Keepalived\_vrrp[50680]: Sending gratuitous ARP on ens33 for  
192.168.238.200

**测试一、现在我在ceph4（模拟不关机维护）**

# touch /etc/keepalived/down#创建down文件

Sep 21 15:12:49 ceph4Keepalived\_vrrp[50680]: /etc/keepalived/down.sh exited with  
status 1



Sep 21 15:12:51 ceph4Keepalived\_vrrp[50680]: /etc/keepalived/down.sh exited with status 1

Sep 21 15:12:51 ceph4Keepalived\_vrrp[50680]: VRRP\_Script(chk\_maintaince\_down) failed

(/apps/  
utm\_sc  
banner

Sep 21 15:12:51 ceph4Keepalived\_vrrp[50680]: VRRP\_Instance(VI\_1) Changing effective priority from101 to 96

Sep 21 15:12:52 ceph4Keepalived\_vrrp[50680]: VRRP\_Instance(VI\_1) Received advert with higherpriority 100, ours 96

Sep 21 15:12:52 ceph4Keepalived\_vrrp[50680]: VRRP\_Instance(VI\_1)**Entering BACKUP STATE#在创建down文件后，weight降级了，变为了BACKUP节点**

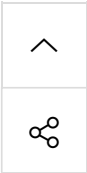
Sep 21 15:12:52 ceph4 Keepalived\_vrrp[50680]:VRRP\_Instance(VI\_1) removing protocol VIPs.

邮箱收到信息如下：

Ceph4变为backup

(https:/  
click.ye  
slot=30  
0b8b-4  
338d4!

Ceph5变为激活master



## Ceph5变为激活master

说明测试成功，地址已经漂移到ceph5，ceph4可以维护了

将down文件删掉后

```
# rmdown
```

```
rm:remove regular empty file 'down'? y
```

### ceph4

```
Sep 21 15:17:18 ceph4Keepalived_vrrp[50680]: VRRP_Script(chk_maintaince_down) succeeded
```

```
Sep 21 15:17:18 ceph4Keepalived_vrrp[50680]: VRRP_Instance(VI_1) Changing effective priority from 96to 101
```

```
Sep 21 15:17:18 ceph4Keepalived_vrrp[50680]: VRRP_Instance(VI_1) forcing a new MASTER election
```

```
Sep 21 15:17:19 ceph4Keepalived_vrrp[50680]: VRRP_Instance(VI_1) Transition to MASTER STATE
```

**Sep21 15:17:20 ceph4 Keepalived\_vrrp[50680]: VRRP\_Instance(VI\_1) Entering MASTERSTATE#变为主的状态**

```
Sep 21 15:17:20 ceph4Keepalived_vrrp[50680]: VRRP_Instance(VI_1) setting protocol VIPs.
```

```
Sep 21 15:17:20 ceph4Keepalived_vrrp[50680]: Sending gratuitous ARP on ens33 for 192.168.238.200
```

### Ceph5 :

```
Sep 21 15:17:18 ceph5Keepalived_vrrp[11531]: VRRP_Instance(VI_1) Received advert with higherpriority 101, ours 100
```

```
Sep 21 15:17:18 ceph5Keepalived_vrrp[11531]: VRRP_Instance(VI_1) Entering BACKUP STATE
```

**Sep21 15:17:18 ceph5 Keepalived\_vrrp[11531]: VRRP\_Instance(VI\_1) removing protocolVIPs.#地址已经漂移走了,回到了ceph4**

(/apps/  
utm\_sc  
banner

(https:/  
click.y  
slot=30  
0b8b-4  
338d4!




(/apps/  
utm\_sc  
banner

(https:/  
click.y  
slot=30  
0b8b-4  
338d4!

小礼物走一走，来简书关注我

赞赏支持

 集群 (/nb/13492484)

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think\_lonely (/u/5187a8641085)

写了 143441 字，被 50 人关注，获得了 107 个喜欢

(/u/5187a8641085)

+ 关注

喜欢 | 3



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(/apps/redirect?utm\_source=note-bottom-click)

(/apps/  
utm\_sc  
banner

KeepAlived+Haproxy集群 (/p/effb34b0fc3b?utm\_campaign=maleskine...

FileName：KeepAlived+Haproxy集群.txt Function: Implement the load balancer cluster via KeepAlived and Haproxy Version: V1.0(trial version) ...

 richard520 (/u/5a219106c6e4?)  
utm\_campaign=maleskine&utm\_content=user&utm\_medium=seo\_notes&utm\_source=recommend

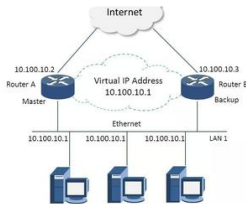
20171029 KeepAlived (/p/d2838d66f44b?utm\_campaign=maleskine&ut...

一、高可用集群 （一）提升系统高可用性的解决方案：冗余(redundant) 工作模式active/passive：主备 active/active：双主 以心跳方式通告active --> HEARTBEAT --> passiveactive <--> HEARTBEAT...

 哈喽别样 (/u/f6a0c03fb91d?)  
utm\_campaign=maleskine&utm\_content=user&utm\_medium=seo\_notes&utm\_source=recommend


(https:/  
click.y  
slot=3(  
0b8b-4  
338d4!

(/p/8f75ee8f8fdf?

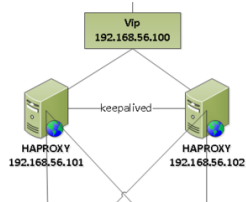


utm\_campaign=maleskine&utm\_content=note&utm\_medium=seo\_notes&utm\_source=recommend  
Nginx+Keepalived实现站点高可用 (/p/8f75ee8f8fdf?utm\_campaign=mal...

Nginx+Keepalived实现站点高可用 公司内部 OA 系统要做线上高可用，避免单点故障，所以计划使用2台虚拟机通过 Keepalived 工具来实现 nginx 的高可用（High Availability），达到一台nginx入口服务器宕机，另...

 meng\_philip123 (/u/d1efae5b9216?)  
utm\_campaign=maleskine&utm\_content=user&utm\_medium=seo\_notes&utm\_source=recommend

(/p/d01415806d96?



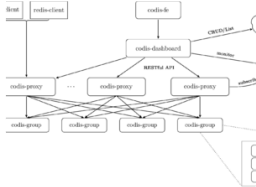
utm\_campaign=maleskine&utm\_content=note&utm\_medium=seo\_notes&utm\_source=recommend  
haproxy+keepalived+tomcat开源组件实现应用服务器高可用实践 (/p/d01...

1、背景介绍 为了实现tomcat应用服务高可用和系统负载均衡分发问题。我们采用开源组件HAPROXY做负载均衡分发到tomcat应用服务器，而保障了应用服务器高可用的同时NGINX单机存在单点故障，假如...

 jaymarco (/u/941f7584947c?)  
utm\_campaign=maleskine&utm\_content=user&utm\_medium=seo\_notes&utm\_source=recommend




(/p/7edd0bd2df28?



utm\_campaign=maleskine&utm\_content=note&utm\_medium=seo\_notes&utm\_source=recommendation\_banner  
**Codis 3.2 部署配置汇总 (/p/7edd0bd2df28?utm\_campaign=maleskine&...**


Codis 3.2 部署配置汇总 概念总结 集群配置前需要了解架构，集群分片主要分三种：客户端分片：这个需要自己开发，对客户端要求严格，集群很难扩容 代理端分片：如codis，对客户端几乎无要求，集群容易扩容...

 三杯水Plus (/u/a5875b99e954?

utm\_campaign=maleskine&utm\_content=user&utm\_medium=seo\_notes&utm\_source=recommendation\_banner

**吃货的友情 (/p/0e5bbacc9815?utm\_campaign=maleskine&utm\_content=...**


吃货之间总有一丝说不清，道不明的关系，这就是同类之间的引力吗？初见 在艳阳高照的夏天，人们都蜷缩在呼呼作响的空调的房间里，大街上的人少得可怜，除了不得不出来的人，谁也不想面对太阳那毒辣的阳...

 轻羽若安 (/u/6df06b89a824?

utm\_campaign=maleskine&utm\_content=user&utm\_medium=seo\_notes&utm\_source=recommendation\_banner

**为什么读了很多书，依然记不住？ (/p/b7af6fd72333?utm\_campaign=mal...**


书到用时方恨少，大约许多人都会有这样的感叹。写文章的人，在需要引经据典的时候，总是想不起那合适的句子是出自哪里，原话怎样；聚会聊天时，想要吊一吊书袋子，也往往是话到嘴边，心里晓得要表达的...

 暖暖小茶 (/u/ee67730986c9?

utm\_campaign=maleskine&utm\_content=user&utm\_medium=seo\_notes&utm\_source=recommendation\_banner  
(https://click.yc slot=3( 0b8b-4 338d4!

**9季第6周 201 文詣《把时间当做朋友》客观视角 (/p/214ec763f11a?utm\_c...**

Step 1 .选摘 成熟的人总是知道如何让别人舒服 没有缺点的就不是人 我们描述一个事物的方式往往会限制我们对那个事物的了解 Step 2.思考 正所谓知世故而不世故。当我们慢慢长大，接触到了一些成人世界里的...

 文詣 (/u/9a1d4962e35a?


utm\_campaign=maleskine&utm\_content=user&utm\_medium=seo\_notes&utm\_source=recommendation\_banner

(/p/df7c270de978?



utm\_campaign=maleskine&utm\_content=note&utm\_medium=seo\_notes&utm\_source=recommendation\_banner  
**剥完17个石榴，我 get 这个技能 (/p/df7c270de978?utm\_campaign=male...**

十一长假，唯旅行和美食不能辜负，如果你不能来一场说走就走的旅行，那你肯定可以来一次说吃就吃的美食。这个时候是石榴成熟的季节，石榴具有促进新陈代谢，排出毒素的作用。面对石榴的鲜红诱惑，很多...

 正齐读道 (/u/14bb0766890a?

utm\_campaign=maleskine&utm\_content=user&utm\_medium=seo\_notes&utm\_source=recommendation\_banner


(/p/bc88a396e9b4?

utm\_campaign=maleskine&utm\_content=note&utm\_medium=seo\_notes&utm\_source=recommendation\_banner



我读不下去《城堡》 (/p/bc88a396e9b4?utm\_campai...

今天看到一篇左小祖咒写的关于他读卡夫卡《城堡》一书的故事，我忽然想起多年之前我也曾拿起过那本书。我当时的感觉就和左小祖咒一样，那本书实在...

 慕敖 (/u/640f93070280?



utm\_campaign=maleskine&utm\_content=user&utm\_medium=seo\_notes&utm\_source=recommend\_banner (/apps/utm\_source=recommend\_banner

(https://click.yes24.com/slot=360b8b-4338d4!

