# Keepalived



如果有一台 web 服务器死机,或工作出现故障,Keepalived 将检测到,并将有故障的 web 服务器从系统中剔除,当 web 服务器工作正常后 Keepalived 自动将 web 服务器加入到服务器群中,这些工作全部自动完成,不需要人工干涉,Keepalived 使用 vrrp 协议通过广播来监控状态.

• CentOS release 5.6 (Final) GNU/Linux 2.6.18-238.el5 x86\_64

Keepalived	keepalived-1.1.20.tar.gz	http://www.keepalived.org/download.html
<u>Nginx</u>	<u>nginx-1.1.0.tar.gz</u>	http://nginx.org/en/download.html

#### 一. 安装软件

```
# 链接内核源码至 /usr/src/linux
In -s /usr/src/kernels/2.6.18-238.el5-x86_64 /usr/src/linux

# 安装 Keepalived
tar zxvf keepalived-1.1.20.tar.gz
cd keepalived-1.1.20
./configure --prefix=/usr/local/keepalived
make
make install

# 安装 Nginx
tar zxvf nginx-1.1.0.tar.gz
cd nginx-1.1.0
./configure --prefix=/usr/local/nginx --with-pcre --with-http_stub_status_module --with-poll_module
make
make install
```

#### 二. 配置软件

```
# BACKUP
global_defs {
   router_id LVS_DEVEL
vrrp_script chk_http_port {
    script "/opt/nginx_pid.sh"
                                          -- 使用此脚本监控 Nginx 状态
    interval 2
                                            -- 轮换执行时间
    weight 2
}
vrrp_instance VI_1 {
    state
    interface eth0
    virtual_router_id 51
    priority 100
advert_int 2
authentication {
        auth_type PASS
        auth_pass 1111
    track script {
                                            -- 执行监控服务名称
        chk_http_port
    virtual_ipaddress {
```

### 三. Nginx 配置

```
access_log
             off;
sendfile
             on;
keepalive_timeout 65;
server {
    listen
    server_name localhost;
    location / {
              html;
       root
       index index.html index.htm;
    error_page 500 502 503 504 /50x.html;
    location = /50x.html {
       root
             html;
```

## 四. 启动关闭

```
# 启动 Keepalived , 此处不能使用相对路径

cd /usr/local/keepalived/sbin/
    ./keepalived -d -f /usr/local/keepalived/etc/keepalived/keepalived.conf

# 关闭 Keepalived

killall keepalived
```

```
ip a -- 查看 Master 网卡状态

1: lo: <LOOPBACK,UP,LOWER_UP> mtu 16436 qdisc noqueue
    link/loopback 00:00:00:00:00 brd 00:00:00:00:00
    inet 127.0.0.1/8 scope host lo

2: eth0: <BROADCAST,MULTICAST,UP,LOWER_UP> mtu 1500 qdisc pfifo_fast qlen 1000
    link/ether 00:0c:29:73:8c:f0 brd ff:ff:ff:ff:
    inet 192.168.137.130/24 brd 192.168.137.255 scope global eth0
    inet 192.168.137.100/32 scope global eth0
```

```
# 脚本 vim /opt/nginx_pid.sh

#!/bin/bash

if [ `ps -C nginx --no-header|wc -1` -eq 0 ];then
    /usr/local/nginx/sbin/nginx
    sleep 3

    if [ `ps -C nginx --no-header |wc -1` -eq 0 ];then
        killall keepalived
    fi

fi
```