安装文档

# 安装tomcat

# 安装nginx

配置文件和之前的一样

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| --- |
| user nobody nobody; #定义Nginx运行的用户和用户组  worker\_processes 4; #nginx进程数，建议设置为等于CPU总核心数。  error\_log logs/error.log info; #全局错误日志定义类型，[ debug | info | notice | warn | error | crit ]  worker\_rlimit\_nofile 1024; #一个nginx进程打开的最多文件描述符数目，所以建议与ulimit -n的值保持一致。  pid logs/nginx.pid; #进程文件  #工作模式及连接数上限  events {  use epoll;#参考事件模型，use [ kqueue | rtsig | epoll | /dev/poll | select | poll ]; epoll模型是Linux 2.6以上版本内核中的高性能网络I/O模型  worker\_connections 1024;#单个进程最大连接数（最大连接数=连接数\*进程数）  }  #设定http服务器，利用它的反向代理功能提供负载均衡支持  http {  include mime.types;#文件扩展名与文件类型映射表  default\_type application/octet-stream;#默认文件类型  #设定负载均衡的服务器列表  upstream tomcatxxxcom {  server 192.168.56.200:8080;  server 192.168.56.201:8080;  }  #设定日志格式  log\_format www\_xy\_com '$remote\_addr - $remote\_user [$time\_local] "$request" '  '$status $body\_bytes\_sent "$http\_referer" '  '"$http\_user\_agent" "$http\_x\_forwarded\_for"';    sendfile on;#开启高效文件传输模式，sendfile指令指定nginx是否调用sendfile函数来输出文件，对于普通应用设为 on，如果用来进行下载等应用磁盘IO重负载应用，可设置为off，以平衡磁盘与网络I/O处理速度，降低系统的负载。注意：如果图片显示不正常把这个改成off。  keepalive\_timeout 65; #长连接超时时间，单位是秒  #gzip on;  #设定虚拟主机，默认为监听80端口  server {  listen 80;  server\_name tomcat.xxx.com;#域名可以有多个，用空格隔开  #charset koi8-r;  #设定本虚拟主机的访问日志  access\_log /data/logs/access.log www\_xy\_com;  #对 "/" 启用反向代理  location / {  proxy\_pass http://tomcatxxxcom;  proxy\_set\_header Host $host;  proxy\_set\_header X-Real-IP $remote\_addr;  proxy\_set\_header X-Forwarded-For $proxy\_add\_x\_forwarded\_for;  }    #error\_page 500 502 503 504 /50x.html;  location = /50x.html {  root html;  }  }  } |

# 安装lvs

lvs-dr.sh:和之前对比，变化之处就是vip和转发的端口。

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| --- |
| #!/bin/bash  #description:start lvs server  echo "1" >/proc/sys/net/ipv4/ip\_forward    WEB1=192.168.56.200  WEB2=192.168.56.201    VIP1=192.168.56.90    /etc/rc.d/init.d/functions    case "$1" in  start)  echo "start LVS of directorServer"  #set the Virtual address and sysctl parameter  /sbin/ifconfig eth1:0 $VIP1 broadcast $VIP1 netmask 255.255.255.255 up  #clear ipvs table  /sbin/ipvsadm -C    #set LVS  #web apache or tomcat  /sbin/ipvsadm -A -t $VIP1:80 -s rr  /sbin/ipvsadm -a -t $VIP1:80 -r $WEB1:80 -g  /sbin/ipvsadm -a -t $VIP1:80 -r $WEB2:80 -g    #run LVS  /sbin/ipvsadm  ;;  stop)  echo "close LVS directorserver"  echo "0" >/proc/sys/net/ipv4/ip\_forward  /sbin/ipvsadm -C  /sbin/ipvsadm -Z  ;;  \*)  echo "usage:$0 {start|stop}"  exit 1  esac |

lvs-rs.sh：与之前的不同在于修改了vip

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| --- |
| #!/bin/sh  #description start realserver  #chkconfig 235 26 26  VIP1=192.168.56.90  /etc/rc.d/init.d/functions  case "$1" in  start)    echo "start LVS of realserver"  /sbin/ifconfig lo:0 $VIP1 broadcast $VIP1 netmask 255.255.255.255 up    echo "1" >/proc/sys/net/ipv4/conf/lo/arp\_ignore  echo "2" >/proc/sys/net/ipv4/conf/lo/arp\_announce  echo "1" >/proc/sys/net/ipv4/conf/all/arp\_ignore  echo "2" >/proc/sys/net/ipv4/conf/all/arp\_announce  ;;  stop)  /sbin/ifconfig lo:0 down  echo "close lvs dirctorserver"  echo "0" >/proc/sys/net/ipv4/conf/lo/arp\_ignore  echo "0" >/proc/sys/net/ipv4/conf/lo/arp\_announce  echo "0" >/proc/sys/net/ipv4/conf/all/arp\_ignore  echo "0" >/proc/sys/net/ipv4/conf/all/arp\_announce  ;;  \*)  echo "usage:$0{start|stop}"  exit 1  esac |

# 安装keepalived

注意：在用keepalived做tomcat和nginx的热备时，需要加入realserver的配置。但是做lvs的热备则不需要配置realserver，因为keepalived有lvs的配置参数。

backup

|  |
| --- |
| ! Configuration File for keepalived  global\_defs {  notification\_email {  #acassen@firewall.loc  #failover@firewall.loc  #sysadmin@firewall.loc  }  notification\_email\_from Alexandre.Cassen@firewall.loc  #smtp\_server 192.168.200.1  #smtp\_connect\_timeout 30  router\_id LVS\_DEVEL  }  vrrp\_instance VI\_1 {  state BACKUP  interface eth1  lvs\_sync\_daemon\_inteface eth1  virtual\_router\_id 51  priority 100  nopreempt  advert\_int 1  authentication {  auth\_type PASS  auth\_pass 1111  }  virtual\_ipaddress {  192.168.56.90  }  }  virtual\_server 192.168.56.90 80 {  delay\_loop 6  lb\_algo rr  lb\_kind DR  #nat\_mask 255.255.255.0  persistence\_timeout 1  protocol TCP  } |

master

|  |
| --- |
| ! Configuration File for keepalived  global\_defs {  notification\_email {  #acassen@firewall.loc  #failover@firewall.loc  #sysadmin@firewall.loc  }  notification\_email\_from Alexandre.Cassen@firewall.loc  #smtp\_server 192.168.200.1  #smtp\_connect\_timeout 30  router\_id LVS\_DEVEL  }  vrrp\_instance VI\_1 {  state MASTER  interface eth1  lvs\_sync\_daemon\_inteface eth1  virtual\_router\_id 51  priority 200  advert\_int 1  authentication {  auth\_type PASS  auth\_pass 1111  }  virtual\_ipaddress {  192.168.56.90  }  }  virtual\_server 192.168.56.90 80 {  delay\_loop 6  lb\_algo rr  lb\_kind DR  #nat\_mask 255.255.255.0  persistence\_timeout 1  protocol TCP  } |