

一、安装keepalived

必须要用tools压缩包中的来安装，不要用其他开源版本

```
cd /usr/local/src/lvs-fullnat-synproxy/tools/keepalived
```

```
./configure --with-kernel-dir="/lib/modules/$(uname -r)/build";
```

报错:

```
checking for sys/time.h... yes
checking openssl/ssl.h usability... no
checking openssl/ssl.h presence... no
checking for openssl/ssl.h... no
configure: error:
!!! OpenSSL is not properly installed on your system. !!!
!!! Can not include OpenSSL headers files.          !!!
[root@localhost keepalived]#
```

解决: 执行yum install -y openssl openssl-devel

再次执行又报错:

```
checking for SSL_CTX_new in -lssl... yes
checking for poptGetContext in -lpopt... no
configure: error: Popt libraries is required
[root@localhost keepalived]#
```

解决: 执行yum install popt-devel

再次执行./configure --with-kernel-dir="/lib/modules/\$(uname -r)/build"

```
Keepalived configuration
-----
Keepalived version      : 1.2.2
Compiler                : gcc
Compiler flags          : -g -O2
Extra Lib               : -lpopt -lssl -lcrypto
Use IPVS Framework      : Yes
IPVS sync daemon support : Yes
IPVS use libnl          : No
Use VRRP Framework     : Yes
Use Debug flags         : No
[root@localhost keepalived]#
```

make

```
Building ../bin/genhash
strip ../bin/genhash

Make complete
make[1]: Leaving directory `/usr/local/src/lvs-fullnat-synproxy/tools/keepalived/genhash'

Make complete
[root@localhost keepalived]#
```

make install

```

make -C keepalived install
make[1]: Entering directory/usr/local/src/lvs-fullnat-
synproxy/tools/keepalived/keepalived'install -d /usr/local/sbininstall -m 700
../bin/keepalived /usr/local/sbin/install -d /usr/local/etc/rc.d/init.dinstall -
m 755 etc/init.d/keepalived.init /usr/local/etc/rc.d/init.d/keepalivedinstall -d
/usr/local/etc/sysconfiginstall -m 755 etc/init.d/keepalived.sysconfig
/usr/local/etc/sysconfig/keepalivedinstall -d
/usr/local/etc/keepalived/samplesinstall -m 644 etc/keepalived/keepalived.conf
/usr/local/etc/keepalived/install -m 644 ../doc/samples/*
/usr/local/etc/keepalived/samples/install -d /usr/local/share/man/man5install -d
/usr/local/share/man/man8install -m 644 ../doc/man/man5/keepalived.conf.5
/usr/local/share/man/man5install -m 644 ../doc/man/man8/keepalived.8
/usr/local/share/man/man8make[1]: Leaving directory /usr/local/src/lvs-fullnat-
synproxy/tools/keepalived/keepalived'
make -C genhash install
make[1]: Entering directory/usr/local/src/lvs-fullnat-
synproxy/tools/keepalived/genhash'install -d /usr/local/bininstall -m 755
../bin/genhash /usr/local/bin/install -d /usr/local/share/man/man1install -m 644
../doc/man/man1/genhash.1 /usr/local/share/man/man1
make[1]: Leaving directory /usr/local/src/lvs-fullnat-
synproxy/tools/keepalived/genhash

```

```

cp -a bin/genhash /usr/local/bin/
cp -a bin/keepalived /sbin/
cp -a keepalived/etc/init.d/keepalived.init /etc/init.d/keepalived
cp -a keepalived/etc/keepalived/keepalived.conf /etc/keepalived/keepalived.conf

```

这一步报错:

```

[root@localhost keepalived]# cp -a bin/genhash /usr/local/bin/
cp: overwrite `/usr/local/bin/genhash'?
[root@localhost keepalived]# cp -a bin/keepalived /sbin/
[root@localhost keepalived]# cp -a keepalived/etc/init.d/keepalived.init /etc/init.d/keepalived
[root@localhost keepalived]# cp -a keepalived/etc/keepalived/keepalived.conf /etc/keepalived/keepalived.conf
cp: cannot create regular file `/etc/keepalived/keepalived.conf': No such file or directory
[root@localhost keepalived]#

```

解决方法：去 /etc 目录下创建keepalived文件夹

```
cd /etc
```

```
mkdir keepalived
```

再 cd /usr/local/src/lvs-fullnat-synproxy/tools/keepalived

```
cp -a keepalived/etc/keepalived/keepalived.conf /etc/keepalived/keepalived.conf
```

就可以了。

```
cp -a keepalived/etc/init.d/keepalived.sysconfig /etc/sysconfig/keepalived
```

二 安装ipvsadm

```
cd /usr/local/src/lvs-fullnat-synproxy/tools/ipvsadm
```

```
make
```

```
make install
```

```
[root@localhost ipvsadm]# make
gcc -Wall -Wunused -Wstrict-prototypes -g -DVERSION=\"1.26\" -DSCHEDULERS=\"rr|wrr|lc|wlc|lblc|lblcr|dh|sh|sed|nq\" -DPE_LIST=\"\"s
ip\" -DHAVE_POPT -DHAVE_NET_IP_VS_H -c -o ipvsadm.o ipvsadm.c
ipvsadm.c: In function 'print_largenum':
ipvsadm.c:1445: warning: field width should have type 'int', but argument 2 has type 'size_t'
gcc -Wall -Wunused -Wstrict-prototypes -g -DVERSION=\"1.26\" -DSCHEDULERS=\"rr|wrr|lc|wlc|lblc|lblcr|dh|sh|sed|nq\" -DPE_LIST=\"\"s
ip\" -DHAVE_POPT -DHAVE_NET_IP_VS_H -c -o config_stream.o config_stream.c
gcc -Wall -Wunused -Wstrict-prototypes -g -DVERSION=\"1.26\" -DSCHEDULERS=\"rr|wrr|lc|wlc|lblc|lblcr|dh|sh|sed|nq\" -DPE_LIST=\"\"s
ip\" -DHAVE_POPT -DHAVE_NET_IP_VS_H -c -o dynamic_array.o dynamic_array.c
gcc -Wall -Wunused -Wstrict-prototypes -g -o ipvsadm ipvsadm.o config_stream.o dynamic_array.o ../keepalived/keepalived/libipvs-2.6/1
ibipvs.a -lpopt
[root@localhost ipvsadm]# make install
if [ ! -d /sbin ]; then mkdir -p /sbin; fi
install -m 0755 ipvsadm /sbin
install -m 0755 ipvsadm-save /sbin
install -m 0755 ipvsadm-restore /sbin
[ -d /usr/man/man8 ] || mkdir -p /usr/man/man8
install -m 0644 ipvsadm.8 /usr/man/man8
install -m 0644 ipvsadm-save.8 /usr/man/man8
install -m 0644 ipvsadm-restore.8 /usr/man/man8
[ -d /etc/rc.d/init.d ] || mkdir -p /etc/rc.d/init.d
install -m 0755 ipvsadm.sh /etc/rc.d/init.d/ipvsadm
```

安装 quagga

```
cd /usr/local/src/lvs-fullnat-synproxy/tools/quagga
./configure --disable-ripd --disable-ripngd --disable-bgpd --disable-
watchquagga --disable-doc --enable-user=root --enable-vty-group=root --enable-
group=root --enable-zebra --localstatedir=/var/run/quagga
```

```
make
make install
```

三 系统自身参数配置

1.

```
打开irqbalance
# service irqbalance start
# chkconfig --level 2345 irqbalance on
```

```
[root@localhost ipvsadm]# service irqbalance start
Starting irqbalance: [ OK ]
[root@localhost ipvsadm]# chkconfig --level 2345 irqbalance on
[root@localhost ipvsadm]#
```

2.

```
vi /etc/sysctl.conf
# configure for lvs
net.ipv4.conf.all.arp_ignore = 1
net.ipv4.conf.all.arp_announce = 2
net.core.netdev_max_backlog = 500000
net.ipv4.ip_forward = 1
```