```
1  cd /usr/local/src/lvs-fullnat-synproxy/
```

可以看到tools在此文件夹中，对其解压：

```
[root@localhost src]# cd lvs-fullnat-synproxy/
[root@localhost lvs-fullnat-synproxy]# ll
total 2960
-rw-r--r--. 1 root root  475082 Jul 31  2012 lvs-2.6.32-220.23.1.el6.patch
-rw-r--r--. 1 root root 2526079 Jul 24  2012 lvs-tools.tar.gz
-rw-r--r--. 1 root root    3887 Jul 31  2012 README
-rw-r--r--. 1 root root   24097 Jul 31  2012 toa-2.6.32-220.23.1.el6.patch
[root@localhost lvs-fullnat-synproxy]# tar zxvf lvs-tools.tar.gz
tools/
tools/quagga/
tools/quagga/ripd/
```

解压后：在tools/keepalived/路径下：

```
1  ./configure --with-kernel-dir="/lib/modules/`uname -r`/build"
2
```

报错：

```
checking syslog.h usability... yes
checking syslog.h presence... yes
checking for syslog.h... yes
checking for unistd.h... (cached) yes
checking sys/ioctl.h usability... yes
checking sys/ioctl.h presence... yes
checking for sys/ioctl.h... yes
checking sys/time.h usability... yes
checking sys/time.h presence... yes
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.             !!!
```

解决：

```
1  yum install -y openssl openssl-devel
2  yum install popt-devel
```

再次./configure --with-kernel-dir="/lib/modules/`uname -r`/build"

否则会报错：make: *** No targets specified and no makefile found. Stop.

```
1 make
2 make install
```

```
1 cp -a bin/genhash /usr/local/bin/
2 cp -a bin/keepalived /sbin/
3 cp -a keepalived/etc/init.d/keepalived.init /etc/init.d/keepalived
4 cp -a keepalived/etc/keepalived/keepalived.conf
  /etc/keepalived/keepalived.conf
5 cp -a keepalived/etc/init.d/keepalived.sysconfig /etc/sysconfig/keepalived
```

此处出现各种尝试各种错，最后发现是因为根目录下的etc里没有keepalived文件夹，自己创建一个。

注意分清根目录下的etc和 /usr/local/src/lvs-fullnat-synproxy/tools/keepalived.

```
 1 [root@localhost keepalived]# cp -a bin/genhash /usr/local/bin/
 2 cp: overwrite `/usr/local/bin/genhash'?
 3 [root@localhost keepalived]# cp -a bin/keepalived /sbin/
 4 [root@localhost keepalived]# cp -a keepalived/etc/init.d/keepalived.init
   /etc/init.d/keepalived
 5 [root@localhost keepalived]# cp -a
   keepalived/etc/keepalived/keepalived.conf /etc/keepalived/keepalived.conf
 6 cp: cannot create regular file `/etc/keepalived/keepalived.conf': No such
   file or directory
 7 [root@localhost keepalived]# ll /etc/init.d/keepalived
 8 -rwxr-xr-x. 1 root root 1288 Jul 24  2012 /etc/init.d/keepalived
 9 [root@localhost keepalived]# cp -a
   keepalived/etc/keepalived/keepalived.conf /etc/keepalived/keepalived.conf
10 cp: cannot create regular file `/etc/keepalived/keepalived.conf': No such
   file or directory
11 [root@localhost keepalived]# ll
```

```
total 412
-rw-r--r--. 1 root root     41 Jul 24  2012 AUTHOR
drwxr-xr-x. 2 root root   4096 Jul 19 09:04 bin
-rwxr-xr-x. 1 root root    548 Jul 24  2012 build
-rw-r--r--. 1 root root  98272 Jul 24  2012 ChangeLog
-rw-r--r--. 1 root root  23209 Jul 19 09:03 config.log
-rwxr-xr-x. 1 root root  25224 Jul 19 09:03 config.status
-rwxr-xr-x. 1 root root 159416 Jul 24  2012 configure
-rw-r--r--. 1 root root   7564 Jul 24  2012 configure.in
-rw-r--r--. 1 root root    830 Jul 24  2012 CONTRIBUTORS
-rw-r--r--. 1 root root  17982 Jul 24  2012 COPYING
drwxr-xr-x. 4 root root   4096 Jul 24  2012 doc
drwxr-xr-x. 2 root root   4096 Jul 19 09:04 genhash
-rw-r--r--. 1 root root   1601 Jul 24  2012 INSTALL
-rwxr-xr-x. 1 root root   5598 Jul 24  2012 install-sh
drwxr-xr-x. 9 root root   4096 Jul 19 09:03 keepalived
-rw-r--r--. 1 root root   5229 Jul 19 09:03 keepalived.spec
-rw-r--r--. 1 root root   5229 Jul 24  2012 keepalived.spec.in
drwxr-xr-x. 2 root root   4096 Jul 19 09:04 lib
-rw-r--r--. 1 root root   1242 Jul 19 09:03 Makefile
-rw-r--r--. 1 root root   1262 Jul 24  2012 Makefile.in
-rw-r--r--. 1 root root   1007 Jul 24  2012 README
-rw-r--r--. 1 root root    578 Jul 24  2012 TODO
-rw-r--r--. 1 root root      6 Jul 24  2012 VERSION
[root@localhost keepalived]# cd keepalived
[root@localhost keepalived]# ll
total 36
drwxr-xr-x. 2 root root 4096 Jul 19 09:04 check
drwxr-xr-x. 2 root root 4096 Jul 19 09:04 core
drwxr-xr-x. 4 root root 4096 Jul 24  2012 etc
drwxr-xr-x. 2 root root 4096 Jul 19 09:03 include
drwxr-xr-x. 2 root root 4096 Jul 24  2012 libipvs-2.4
drwxr-xr-x. 2 root root 4096 Jul 19 09:04 libipvs-2.6
-rw-r--r--. 1 root root 2871 Jul 19 09:03 Makefile
-rw-r--r--. 1 root root 2850 Jul 24  2012 Makefile.in
drwxr-xr-x. 2 root root 4096 Jul 19 09:04 vrrp
[root@localhost keepalived]# cd etc
[root@localhost etc]# ll
total 8
drwxr-xr-x. 2 root root 4096 Jul 24  2012 init.d
```

```
52  drwxr-xr-x. 2 root root 4096 Jul 24  2012 keepalived
53  [root@localhost etc]# cd init.d
54  [root@localhost init.d]# ll
55  total 16
56  -rwxr-xr-x. 1 root root 1288 Jul 24  2012 keepalived.init
57  -rwxr-xr-x. 1 root root 1258 Jul 24  2012 keepalived.rh.init
58  -rw-r--r--. 1 root root 3841 Jul 24  2012 keepalived.suse.init
59  -rw-r--r--. 1 root root  667 Jul 24  2012 keepalived.sysconfig
60  [root@localhost init.d]# cd ..
61  [root@localhost etc]# mkdir keepalived
62  mkdir: cannot create directory `keepalived': File exists
63  [root@localhost etc]# cd
64  [root@localhost ~]# cd /etc
65  [root@localhost etc]# mkdir keepalived
66  [root@localhost etc]# cp -a keepalived/etc/keepalived/keepalived.conf
    /etc/keepalived/keepalived.conf
67  cp: cannot stat `keepalived/etc/keepalived/keepalived.conf': No such file
    or directory
68  [root@localhost etc]# cd
69  [root@localhost ~]# cd /usr/local/
70  [root@localhost local]# ll
71  total 40
72  drwxr-xr-x. 2 root root 4096 Jul 19 09:05 bin
73  drwxr-xr-x. 5 root root 4096 Jul 19 09:05 etc
74  drwxr-xr-x. 2 root root 4096 Sep 23  2011 games
75  drwxr-xr-x. 2 root root 4096 Sep 23  2011 include
76  drwxr-xr-x. 2 root root 4096 Sep 23  2011 lib
77  drwxr-xr-x. 2 root root 4096 Jul 18 16:37 lib64
78  drwxr-xr-x. 2 root root 4096 Sep 23  2011 libexec
79  drwxr-xr-x. 2 root root 4096 Jul 19 09:05 sbin
80  drwxr-xr-x. 5 root root 4096 Jul 18 16:37 share
81  drwxr-xr-x. 4 root root 4096 Jul 18 19:34 src
82  [root@localhost local]# cd etc
83  [root@localhost etc]# cd keepalived
84  [root@localhost keepalived]# cp -a
    keepalived/etc/keepalived/keepalived.conf /etc/keepalived/keepalived.conf
85  cp: cannot stat `keepalived/etc/keepalived/keepalived.conf': No such file
    or directory
86  [root@localhost keepalived]# cd
87  [root@localhost ~]# cd /usr/local/src/
88  [root@localhost src]# ll
```

```
 89  total 271520
 90  -rw-r--r--.  1 root root 78290779 Jul 18 16:58 kernel-2.6.32-
     220.23.1.el6.src.rpm
 91  drwxr-xr-x. 24 root root     4096 Jul 31  2012 linux-2.6.32-
     220.23.1.el6.x86_64.lvs
 92  -rw-r--r--.  1 root root 98602769 Jul 18 16:57 Linux-2.6.32-
     220.23.1.el6.x86_64.lvs.src.tar.gz
 93  -rw-r--r--.  1 root root 98492227 Jul 18 16:57 Linux-2.6.32-
     220.23.1.el6.x86_64.rs.src.tar.gz
 94  drwxr-xr-x.  3 root root     4096 Jul 19 08:48 lvs-fullnat-synproxy
 95  -rw-r--r--.  1 root root  2630424 Jul 18 16:53 Lvs-fullnat-synproxy.tar.gz
 96  [root@localhost src]# cd lvs-fullnat-synproxy/
 97  [root@localhost lvs-fullnat-synproxy]# cd tools
 98  [root@localhost tools]# ll
 99  total 16
100  drwxr-xr-x.  4 root root 4096 Jul 24  2012 ipvsadm
101  drwxr-xr-x.  7 root root 4096 Jul 19 09:03 keepalived
102  drwxr-xr-x. 20 root root 4096 Jul 24  2012 quagga
103  drwxr-xr-x.  2 root root 4096 Jul 24  2012 rpm
104  [root@localhost tools]# cd keepalived
105  [root@localhost keepalived]# cp -a
     keepalived/etc/keepalived/keepalived.conf /etc/keepalived/keepalived.conf
106  [root@localhost keepalived]# cp -a
     keepalived/etc/init.d/keepalived.sysconfig /etc/sysconfig/keepalived
107
```

1.2 ipvsadm

```
1  cd tools/ipvsadm
2  make
3  make install
4
```

二、系统自身参数配置

```
1  [root@localhost ipvsadm]# service irqbalance start
2  [root@localhost ipvsadm]# chkconfig --level 2345 irqbalance on
```

```
1  [root@localhost ipvsadm]# cd
2  [root@localhost ~]# cd /etc
3  [root@localhost etc]# vi sysctl.conf
4  加入以下：
5  # configure for lvs
6  net.ipv4.conf.all.arp_ignore = 1
7  net.ipv4.conf.all.arp_announce = 2
8  net.core.netdev_max_backlog = 500000
```

安装quagga：在 /usr/local/src/lvs-fullnat-synproxy/tools路径下：

```
1  ./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
2  make
3  make install
```

在根目录etc文件夹下：

```
1  vi sysctl.conf
2  net.ipv4.ip_forward = 1
```

用于ip转发