

1 下载源码,进入usr/local/src目录下

```
git clone https://github.com/alibaba/LVS
```

2

```
cd /usr/local/src/LVS/kernel
```

```
vi .config
```

将这两句：

```
CONFIG_SYSFS_DEPRECATED=y  
CONFIG_SYSFS_DEPRECATED_V2=y
```

改为：

```
CONFIG_SYSFS_DEPRECATED=n  
CONFIG_SYSFS_DEPRECATED_V2=n
```

3

```
mkdir -p /usr/src/kernels/2.6.32
```

```
make O=/usr/src/kernels/2.6.32 menuconfig
```

执行完这里会出现 一个蓝色界面，根据需要选择模块，然后yes保存。

4 `make mrproper`

5 `make O=/usr/src/kernels/2.6.32`

这里会出现一个fatal error，linux/videodev.h：No such file or directory，解决办法是：

```
yum install libv4l-dev*
```

然后将v4lgrab.c中的"#include <linux/videodev.h>" 改成"#include <libv4l1-videodev.h>"

然后接着执行：

```
make mrproper
```

```
make O=/usr/src/kernels/2.6.32
```

```
make O=/usr/src/kernels/2.6.32 modules_install install
```

6 安装keepalived

```
cd /usr/local/src/LVS/tools/keepalived/
```

```
./configure --prefix=/usr/local/keepalived --with-kernel-  
dir=/usr/local/src/LVS/kernel
```

```
make
```

```
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
```

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## 7 安装ipvsadm ( 事先要安装依赖 libnl libnl-devel libssl-devel libssl )

```
cd /usr/local/src/LVS/tools/ipvsadm/
```

```
make
```

```
make install
```

```
[root@localhost ipvsadm]# make
gcc -Wall -Wunused -Wstrict-prototypes -g -DVERSION=\"1.26\" -DSCHEDULERS=\"rr|wrr|lc|wlc|lb|cr|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 'modprobe_ipvs':
ipvsadm.c:1264:6: warning: variable 'rc' set but not used [-Wunused-but-set-variable]
    int rc;
    ^
gcc -Wall -Wunused -Wstrict-prototypes -g -DVERSION=\"1.26\" -DSCHEDULERS=\"rr|wrr|lc|wlc|lb|cr|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|lb|cr|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/l
ibipvs.a -lpopt -lnl
[root@localhost ipvsadm]# make install
```

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```
[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
[root@localhost ipvsadm]# pwd
```

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## 8 安装quagga

```
cd /usr/local/src/LVS/tools/quagga
```

```
./configure --prefix=/usr/local/quagga
```

```
make
```

```
make install
```

```
Quagga configuration
-----
quagga version      : 0.99.20
host operating system : linux-gnu
source code location : .
compiler            : gcc
compiler flags      : -Os -fno-omit-frame-pointer -g -std=gnu99 -Wall -Wsign-compare -Wpointer-arith -Wbad-function-cast -Wwrite-
strings -Wmissing-prototypes -Wmissing-declarations -Wchar-subscripts -Wcast-qual
make                : make
includes            :
linker flags        : -lcrypt -lrt -lm
state file directory : /var/run
config file directory : /usr/local/quagga/etc
example directory   : /usr/local/quagga/etc
user to run as      : quagga
group to run as     : quagga
group for vty sockets :
config file mask    : 0600
log file mask       : 0600
```

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## 9 重启 reboot , 但是失败了 , 内核显示还是以前的版本。

```
[root@localhost ~]# reboot  
Connection closed by foreign host.  
Disconnected from remote host(234(LVS)) at 14:26:24.  
Type 'help' to learn how to use Xshell prompt.  
[c:\~]$  
Connecting to 10.2.1.234:22...  
Connection established.  
To escape to local shell, press 'Ctrl+Alt+J'.  
Last login: Wed Jul 17 21:39:41 2019 from 10.2.2.48  
[root@localhost ~]# uname -r  
3.10.0-957.21.3.el7.x86_64
```

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