一、安装依赖包

1.安装以下依赖:

```
1 yum install -y gcc asciidoc newt-devel
2 yum install redhat-rpm-config patchutilsxmlto elfutils-libelf-devel binutils-de
3 yum install perl-ExtUtils-Embed hmaccalc -y
4 yum install patchutils \
5 xmlto \
6 elfutils-libelf-devel \
7 binutils-devel \
8 hmaccalc -y
```

2.将kernel-2.6.32-220.el6.src.rpm

Linux-2.6.32-220.23.1.el6.x86_64.rs.src.tar.gz

Linux-2.6.32-220.23.1.el6.x86_64.lvs.src.tar.gz

Lvs-fullnat-synproxy.tar.gz 上传

二、编译内核

1、安装kernel-2.6.32-220.23.1.el6.src.rpm

```
1 cd ~/rpmbuild/SPECS
2 rpmbuild -bp kernel.spec
```

此处报错:

```
[root@localhost src]# cd ~/rpmbuild/SPECS
[root@localhost SPECS]# rpmbuild -bp kernel.spec
-bash: rpmbuild: command not found
```

解决方法:

```
1 sudo yum install rpm-build
```

重新rpmbuild -bp kernel.spec

出现卡住不动的情况,解决方法:

```
1 yum -y install rng-tools
2 rngd -r /dev/urandom
```

再次: rpmbuild -bp kernel.spec

#在/usr/local/src下解压linux-2.6.32-220.23.1.el6.x86_64.lvs.src.tar.gz

```
tar zxf Linux-2.6.32-220.23.1.el6.x86_64.lvs.src.tar.gz
#打patch

cd ~/rpmbuild/BUILD/kernel-2.6.32-220.23.1.el6/linux-2.6.32-220.23.1.el6.x86_64

cp /usr/local/src/linux-2.6.32-220.23.1.el6.x86_64.lvs/lvs-2.6.32-220.23.1.el6.

#淘宝将IP_VS改成了22,测试时遇到些麻烦,因此改为20了。

#vim .config

CONFIG_IP_VS_TAB_BITS=20
```

4, make

```
make -j16
make modules_install
make install;
```

5、配置grub.conf

```
#vim /boot/grub/grub.conf
default=0
```

三、reboot

reboot之后uname -r看下是不是你想要的内核。

四、打内核rpm包

1、安装kernel-2.6.32-220.23.1.el6.src.rpm

```
1 rpm -ivh /usr/local/src/kernel-2.6.32-220.23.1.el6.src.rpm
```

2、生成内核源码目录

```
1 rpmbuild -bp ~/rpmbuild/SPECS/kernel.spec
```

遇到卡住不动:

```
1 rngd -r /dev/urandom
```

重新rpmbuild -bp ~/rpmbuild/SPECS/kernel.spec

3、复制出一份内核源码目录

```
1
2 cd ~/rpmbuild/BUILD/kernel-2.6.32-220.23.1.el6/
3 cp -a linux-2.6.32-220.23.1.el6.x86_64/ linux-2.6.32-220.23.1.el6.x86_64_new
```

解压Lvs-fullnat-synproxy.tar .gz

```
1 tar zxf Lvs-fullnat-synproxy.tar.gz
```

会看到patch在如下路径:

4、为内核打fullnat的patch

```
cd ~/rpmbuild/BUILD/kernel-2.6.32-220.23.1.el6/
cd linux-2.6.32-220.23.1.el6.x86_64_new/
patch -p1 < /usr/local/src/lvs-fullnat-synproxy/lvs-2.6.32-220.23.1.el6.patch
cp .config ~/rpmbuild/SOURCES/config-x86_64-generic</pre>
```

5、删除原来内核源码目录中的.config文件

```
1 cd ~/rpmbuild/BUILD/kernel-2.6.32-220.23.1.el6/linux-2.6.32-220.23.1.el6.x86_64
2 rm -rf .config
```

不删的话,会在最后打rpm时遇到报错

6、打自己的patch

```
x-2.6.32-220.23.1.el6.x86_64_new/ > ../../SOURCES/lvs-2.6.32-220.23.1.el6.patch
```

7、编辑kernel.spec

```
vim ~/rpmbuild/SPECS/kernel.spec
line: 9 打上个版本号
%define dist .e27
line: 22 打上个名称的标记
%define distro_build fnat.shanks
line: 605 标记下自己的patch
Patch999999: lvs-2.6.32-220.23.1.el6.patch
line: 915 让自己的patch生效
ApplyOptionalPatch lvs-2.6.32-220.23.1.el6.patch
```

改过后出现错误:

```
[root@localhost kernel-2.6.32-220.23.1.el6]# vim -/rpmbuild/SPECS/kernel.spec
[root@localhost kernel-2.6.32-220.23.1.el6]# rpmbuild -bb --with baseonly --with firmware --without debuginfo --without kabichk --target=x86_64 /root/rpmbuild/SPECS/kernel
.spec
Building target platforms: x86_64
Building for target x86_64
Building for target x86_64
error: line 495: Tag takes single token only: Release: fnat.shanks.el6 .e27
```

kernel.spec第九行zhi'neng'shi只能使用一个标记,删除 .el6即解决。

8、打rpm

```
1 rpmbuild -bb --with baseonly --with firmware --without debuginfo --without kabi
```