先准备好要用到的包: kernel-2.6.32-220.23.1.el6.src.rpm Linux-2.6.32-220.23.1.el6.x86\_64.lvs.src.tar.gz Linux-2.6.32-220.23.1.el6.x86 64.rs.src.tar.gz Lvs-fullnat-synproxy.tar.gz 第一步: cd /usr/local/src rpm -ivh kernel-2.6.32-220.23.1.el6.src.rpm [root@localhost src]# rpm -ivh kernel-2.6.32-220.23.1.el6.src.rpm Updating / installing... 1:kernel-2.6.32-220.23.1.el6 ############### [100%] warning: user mockbuild does not exist - using root warning: group mockbuild does not exist - using root warning: user mockbuild does not exist - using root warning: group mockbuild does not exist - using root warning: user mockbuild does not exist - using root warning: group mockbuild does not exist - using root warning: user mockbuild does not exist - using root warning: group mockbuild does not exist - using root warning: user mockbuild does not exist - using root warning: group mockbuild does not exist - using root warning: user mockbuild does not exist - using root warning: group mockbuild does not exist - using root warning: user mockbuild does not exist - using root warning: group mockbuild does not exist - using root warning: user mockbuild does not exist - using root warning: group mockbuild does not exist - using root warning: user mockbuild does not exist - using root warning: group mockbuild does not exist - using root warning: user mockbuild does not exist - using root warning: group mockbuild does not exist - using root warning: user mockbuild does not exist - using root warning: group mockbuild does not exist - using root warning: user mockbuild does not exist - using root warning: group mockbuild does not exist - using root warning: user mockbuild does not exist - using root warning: group mockbuild does not exist - using root warning: user mockbuild does not exist - using root warning: group mockbuild does not exist - using root warning: user mockbuild does not exist - using root warning: group mockbuild does not exist - using root

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第二步:生成内核源码
cd ~/rpmbuild/SPECS
rpmbuild -bp kernel.spec
这里会报错:
  oot@localhost src]# cd ~/rpmbuild/SPECS
[root@localhost SPECS]# rpmbuild -bp kernel.spec
rootgeboannost setts]# rpmbufus -op kennet.spec
warning: bogus date im %changelog: Tue Dec 07 2011 Karanbir Singh <kbsingh@centos.org> [2.6.32-220.el6.centos]
error: Failed build dependencies:
xmlto is needed by kernel-2.6.32-220.el7.x86_64
解决方法:
安装以下依赖包:
yum install -y gcc asciidoc newt-devel
yum install redhat-rpm-config patchutilsxmlto elfutils-libelf-devel binutils-devel
python-devel hmaccalcperl-ExtUtils-Embed -y
yum install perl-ExtUtils-Embed hmaccalc -y
yum install patchutils \
  xmlto \
   elfutils-libelf-devel \
   binutils-devel \
   hmaccalc -y
```

再次执行 rpmbuild -bp kernel.spec

[root@localhost SPECS]# rpmbuild -bp kernel.spec

```
gpg --homedir . --batch --gen-key /home/icbcmon/rpmbuild/SOURCES/genkey
gpg: WARNING: unsafe permissions on homedir .'
gpg: keyring./secring.gpg' created
gpg: keyring./pubring.gpg' created`
٨C
gpg: signal Interrupt caught ... exiting
会在这里卡着不动,解决方法是:
yum -y install rng-tools
rngd -r /dev/urandom
继续执行rpmbuild -bp kernel.spec,成功.
第三步、对生成的内核源码打patch
#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.patch
#修改.config文件
vim .config
CONFIG_IP_VS_TAB_BITS=20
第四步:
make
这里面又是数不清的坑。虽然最终失败了,但还是记录一下已经遇到过的问题和解决方法:
problem 1:
 /tmp/ccIU2t9m.s: Assembler messages:
/tmp/cclU2t9m.s: Assembler messages:
/tmp/cclU2t9m.s: Error: .size expression for do_hypervisor_callback does not evaluate to a constant
make[2]: *** [arch/x86/kernel/entry_64.o] Error 1
make[1]: *** [arch/x86/kernel] Error 2
make: *** [arch/x86] Error 2
[root@localhost linux-2.6.32-220.23.1.el6.x86_64]#
解决方法:将报错文件中的END(do_hypervisor_callback)改为END(xen_do_hypervisor_callback)
problem 2:
gcc: error: elf_x86_64: No such file or director
gcc: error: unrecognized command line option '-m
make[2]: *** [arch/x86/vdso/vdso.so.dbg] Error 1
make[1]: *** [arch/x86/vdso] Error 2
     *** [arch/x86] Error 2
 [root@localhost linux-2.6.32-220.23.1.el6.x86_64]# 🛚
解决方法:
In arch/x86/vdso/Makefile:
```

replace "-m elf\_x86\_64" by "-m64" on the line starting with VDSO\_LDFLAGS\_vdso.lds replace "-m elf\_i386" by "-m32" on the line starting with VDSO\_LDFLAGS\_vdso32.lds

problem 3:

```
In file included from drivers/scsi/pmcraid.c:57:0:
drivers/scsi/pmcraid.h:611:8: error: duplicate member 'sense_buffer'
    u8 *sense_buffer;

make[2]: *** [drivers/scsi/pmcraid.o] Error 1
make[1]: *** [drivers/scsi] Error 2
make: *** [drivers] Error 2
[root@localhost linux-2.6.32-220.23.1.el6.x86_64]# [
```

## 解决方法:

将drivers/scsi/pmcraid.h中的第611行注释掉:

## problem 4:

```
LD vmlinux.o

ld: final link failed: No space left on device

make: *** [vmlinux.o] Error 1

[root@localhost linux-2.6.32-220.23.1.el6.x86_64]# []
```