Subject: Building DRBD 8.3.4 against OpenVZ kernel 2.6.18-164.2.1.el5.028stab066.7
Posted by triangle on Tue, 01 Dec 2009 09:16:15 GMT
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I am failing to build a DRBD 8.3.4 RPM packet on a system running the OpenVZ kernel 2.6.18-164.2.1.el5.028stab066.7.

Building the DRBD 8.3.4 RPM packet on the same system running the CentOS kernel 2.6.18-164.2.1.el5 works fine.

The DRBD source code is taken from http://oss.linbit.com/drbd/8.3/drbd-8.3.4.tar.gz

My questions:
- Are there any hints to make DRBD 8.3.4 compile successfully on 2.6.18-164.2.1.el5.028stab066.7?
- Is it safe to use the DRBD 8.3.4 userland tools built on the CentOS kernel 2.6.18-164.2.1.el5 on the 2.6.18-164.2.1.el5.028stab066.7-based OpenVZ host?

Thanks for your help! David

These kernel-related packages are installed on the system:

```
[root@hostname drbd-8.3.4]# rpm -qa | grep kernel
kernel-headers-2.6.18-164.6.1.el5
ovzkernel-devel-2.6.18-164.2.1.el5.028stab066.7
kernel-devel-2.6.18-164.6.1.el5
kernel-2.6.18-164.2.1.el5
ovzkernel-2.6.18-164.2.1.el5.028stab066.7
kernel-2.6.18-164.6.1.el5
kernel-devel-2.6.18-164.2.1.el5
[root@hostname drbd-8.3.4]#
```

Here are the details about the failing build process:

```
[root@hostname drbd-8.3.4]# uname -a
Linux hostname.domain.net 2.6.18-164.2.1.el5.028stab066.7 #1 SMP Thu Nov 26 06:53:20 MSK 2009 i686 i686 i386 GNU/Linux
[root@hostname drbd-8.3.4]#

[root@hostname drbd-8.3.4]# pwd
/tmp/drbd-8.3.4
[root@hostname drbd-8.3.4]# make rpm
checking for presence of 8\.3\.4 in various changelog files

        debian/changelog needs update [ignored]

make -C drbd drbd_buildtag.c
```

```
make[1]: Entering directory `/tmp/drbd-8.3.4/drbd'
make[1]: Leaving directory `/tmp/drbd-8.3.4/drbd'
make -C documentation doc
make[1]: Entering directory `/tmp/drbd-8.3.4/documentation'
make[1]: Nothing to be done for `doc'.
make[1]: Leaving directory `/tmp/drbd-8.3.4/documentation'
test -e .filelist
ln -sf drbd/linux/drbd_config.h drbd_config.h
rm -f drbd-8.3.4
ln -s . drbd-8.3.4
for f in $(<.filelist) ; do [ -e $f ] && continue ; echo missing: $f ; exit 1; done
grep debian .filelist >/dev/null 2>&1 && _DEB=-debian || _DEB="" ; \
        tar --owner=0 --group=0 -czf - -T .filelist > drbd-8.3.4$_DEB.tar.gz
rm drbd-8.3.4
mkdir -p dist/BUILD \
                 dist/RPMS  \
                 dist/SPECS \
                 dist/SOURCES \
                 dist/TMP \
                 dist/install \
                 dist/SRPMS
[ -h dist/SOURCES/drbd-8.3.4.tar.gz ] || \
          ln -s /tmp/drbd-8.3.4/drbd-8.3.4.tar.gz \
                 /tmp/drbd-8.3.4/dist/SOURCES/drbd-8.3.4.tar.gz
if test drbd.spec.in -nt dist/SPECS/drbd.spec ; then \
           sed -e "s/^\(Version:\).*/\1 8.3.4/;" \
               -e "s/^\(Packager:\).*/\1 root@hostname.domain.net/;" < drbd.spec.in \
           > dist/SPECS/drbd.spec ; \
         fi
rpmbuild -bb \
            --define "_topdir /tmp/drbd-8.3.4/dist" \
            --define "buildroot /tmp/drbd-8.3.4/dist/install" \
            --define "kernelversion 2.6.18-164.2.1.el5.028stab066.7" \
            --define "kdir /lib/modules/2.6.18-164.2.1.el5.028stab066.7/build" \
             \
            /tmp/drbd-8.3.4/dist/SPECS/drbd.spec
Executing(%prep): /bin/sh -e /var/tmp/rpm-tmp.54854
+ umask 022
+ cd /tmp/drbd-8.3.4/dist/BUILD
+ LANG=C
+ export LANG
+ unset DISPLAY
+ cd /tmp/drbd-8.3.4/dist/BUILD
+ rm -rf drbd-8.3.4
+ /bin/gzip -dc /tmp/drbd-8.3.4/dist/SOURCES/drbd-8.3.4.tar.gz
+ tar -xvvf -
-rw-rw-r-- root/root       875 2008-11-24 11:43:32 drbd-8.3.4/.gitignore
drwxr-xr-x                Creating directory: drbd-8.3.4
```

```
-rw-rw-r-- root/root     17990 2008-11-24 11:43:32 drbd-8.3.4/COPYING
-rw-rw-r-- root/root     26897 2009-10-06 14:34:41 drbd-8.3.4/ChangeLog
-rw-rw-r-- root/root      7054 2009-05-26 14:49:07 drbd-8.3.4/Makefile
-rw-rw-r-- root/root       425 2009-05-26 14:49:07 drbd-8.3.4/README
-rw-rw-r-- root/root       191 2009-05-26 14:49:07 drbd-8.3.4/benchmark/Makefile
drwxr-xr-x               Creating directory: drbd-8.3.4/benchmark
-rw-rw-r-- root/root        95 2007-10-22 17:38:27 drbd-8.3.4/benchmark/README
-rw-rw-r-- root/root     10173 2009-07-27 10:47:42 drbd-8.3.4/benchmark/dm.c
-rw-rw-r-- root/root      8639 2009-07-27 10:47:42 drbd-8.3.4/benchmark/io-latency-test.c
-rw-rw-r-- root/root      2293 2009-08-26 15:27:50 drbd-8.3.4/documentation/Makefile
drwxr-xr-x               Creating directory: drbd-8.3.4/documentation
-rw-rw-r-- root/root      2860 2008-11-24 11:43:32 drbd-8.3.4/documentation/Makefile.lang
-rw-rw-r-- root/root      2018 2009-08-26 15:27:50 drbd-8.3.4/documentation/aspell.en.per
-rw-rw-r-- root/root     68148 2009-09-29 10:03:16 drbd-8.3.4/documentation/drbd.conf.xml
-rw-rw-r-- root/root      3522 2009-08-26 15:27:50 drbd-8.3.4/documentation/drbd.xml
-rw-rw-r-- root/root     18425 2009-08-26 15:27:50 drbd-8.3.4/documentation/drbdadm.xml
-rw-rw-r-- root/root      3176 2009-08-26 15:27:50 drbd-8.3.4/documentation/drbddisk.xml
-rw-rw-r-- root/root      7163 2009-08-26 15:27:50 drbd-8.3.4/documentation/drbdmeta.xml
-rw-rw-r-- root/root     70034 2009-09-29 10:03:19 drbd-8.3.4/documentation/drbdsetup.xml
-rw-rw-r-- root/root     28845 2009-10-06 14:34:36 drbd-8.3.4/drbd.spec.in
-rw-rw-r-- root/root      1734 2009-09-29 10:35:31 drbd-8.3.4/drbd/Kconfig
drwxr-xr-x               Creating directory: drbd-8.3.4/drbd
-rw-rw-r-- root/root      7565 2009-09-07 12:21:47 drbd-8.3.4/drbd/Makefile
-rw-rw-r-- root/root       362 2009-08-26 15:27:50 drbd-8.3.4/drbd/Makefile-2.6
-rw-rw-r-- root/root      4932 2009-07-27 10:47:43 drbd-8.3.4/drbd/cn_queue.c
-rw-rw-r-- root/root     12046 2009-10-06 13:32:41 drbd-8.3.4/drbd/connector.c
-rw-rw-r-- root/root     41271 2009-09-14 16:04:52 drbd-8.3.4/drbd/drbd_actlog.c
-rw-rw-r-- root/root     37380 2009-08-26 15:27:50 drbd-8.3.4/drbd/drbd_bitmap.c
-rw-rw-r-- root/root     77793 2009-09-14 16:04:52 drbd-8.3.4/drbd/drbd_int.h
-rw-rw-r-- root/root    106310 2009-09-14 16:44:36 drbd-8.3.4/drbd/drbd_main.c
-rw-rw-r-- root/root     67642 2009-10-05 14:52:03 drbd-8.3.4/drbd/drbd_nl.c
-rw-rw-r-- root/root      7485 2009-08-26 15:27:50 drbd-8.3.4/drbd/drbd_proc.c
-rw-rw-r-- root/root    124900 2009-09-14 16:04:52 drbd-8.3.4/drbd/drbd_receiver.c
-rw-rw-r-- root/root     37373 2009-08-26 15:27:50 drbd-8.3.4/drbd/drbd_req.c
-rw-rw-r-- root/root     10346 2009-08-26 15:27:50 drbd-8.3.4/drbd/drbd_req.h
-rw-rw-r-- root/root      4243 2009-08-26 15:27:50 drbd-8.3.4/drbd/drbd_strings.c
-rw-rw-r-- root/root     21430 2009-09-29 09:51:14 drbd-8.3.4/drbd/drbd_tracing.c
-rw-rw-r-- root/root      2655 2009-07-27 10:47:43 drbd-8.3.4/drbd/drbd_tracing.h
-rw-rw-r-- root/root     11513 2009-07-27 10:47:43 drbd-8.3.4/drbd/drbd_vli.h
-rw-rw-r-- root/root     41241 2009-09-14 16:04:52 drbd-8.3.4/drbd/drbd_worker.c
-rw-rw-r-- root/root     16844 2009-08-26 15:27:50 drbd-8.3.4/drbd/drbd_wrappers.h
-rw-rw-r-- root/root      4091 2009-07-27 10:47:42 drbd-8.3.4/drbd/linux/connector.h
drwxr-xr-x               Creating directory: drbd-8.3.4/drbd/linux
-rw-rw-r-- root/root      9923 2009-10-05 14:52:03 drbd-8.3.4/drbd/linux/drbd.h
-rw-rw-r-- root/root      3059 2009-10-06 14:32:17 drbd-8.3.4/drbd/linux/drbd_config.h
-rw-rw-r-- root/root      3881 2009-09-29 09:51:14 drbd-8.3.4/drbd/linux/drbd_limits.h
-rw-rw-r-- root/root      4068 2009-07-28 16:26:11 drbd-8.3.4/drbd/linux/drbd_nl.h
-rw-rw-r-- root/root      2772 2009-07-27 10:47:43 drbd-8.3.4/drbd/linux/drbd_tag_magic.h
```

-rw-rw-r-- root/root 26 2009-07-27 10:47:42 drbd-8.3.4/drbd/linux/hardirq.h
-rw-rw-r-- root/root 12315 2009-07-27 10:47:43 drbd-8.3.4/drbd/linux/lru_cache.h
-rw-rw-r-- root/root 133 2009-07-27 10:47:43 drbd-8.3.4/drbd/linux/memcontrol.h
-rw-rw-r-- root/root 611 2009-07-27 10:47:42 drbd-8.3.4/drbd/linux/mutex.h
-rw-rw-r-- root/root 19 2009-07-27 10:47:43 drbd-8.3.4/drbd/linux/tracepoint.h
-rw-rw-r-- root/root 14754 2009-08-26 15:27:50 drbd-8.3.4/drbd/lru_cache.c
-rw-rw-r-- root/root 5379 2009-08-26 15:27:50 drbd-8.3.4/scripts/Makefile
drwxr-xr-x Creating directory: drbd-8.3.4/scripts
-rw-rw-r-- root/root 755 2009-06-09 13:33:03 drbd-8.3.4/scripts/README
-rwxrwxr-x root/root 5651 2009-10-05 14:52:03 drbd-8.3.4/scripts/adjust_drbd_config_h.sh
-rwxrwxr-x root/root 8047 2009-05-26 14:49:07 drbd-8.3.4/scripts/block-drbd
-rwxrwxr-x root/root 16152 2009-09-07 12:21:47 drbd-8.3.4/scripts/crm-fence-peer.sh
-rwxrwxr-x root/root 5607 2009-06-09 13:33:03 drbd-8.3.4/scripts/drbd
-rwxrwxr-x root/root 6250 2009-06-09 13:33:03 drbd-8.3.4/scripts/drbd-overview.pl
-rw-rw-r-- root/root 23759 2009-08-26 15:27:50 drbd-8.3.4/scripts/drbd.conf
-rw-rw-r-- root/root 3380 2008-11-24 11:43:33 drbd-8.3.4/scripts/drbd.gentoo
-rw-rw-r-- root/root 1420 2009-05-26 14:49:07 drbd-8.3.4/scripts/drbd.metadata.rhcs
-rw-rw-r-- root/root 24297 2009-10-05 09:42:05 drbd-8.3.4/scripts/drbd.ocf
-rw-rw-r-- root/root 649 2009-06-09 13:33:03 drbd-8.3.4/scripts/drbd.rules
-rwxrwxr-x root/root 3353 2009-05-26 14:49:07 drbd-8.3.4/scripts/drbd.sh.rhcs
-rw-rw-r-- root/root 4514 2009-05-26 14:49:07 drbd-8.3.4/scripts/drbdadm.bash_completion
-rwxrwxr-x root/root 2141 2009-05-26 14:49:07 drbd-8.3.4/scripts/drbddisk
-rw-rw-r-- root/root 1117 2009-05-26 14:49:07 drbd-8.3.4/scripts/drbdupper
-rwxrwxr-x root/root 334 2008-11-24 11:43:33 drbd-8.3.4/scripts/get_uts_release.sh
-rwxrwxr-x root/root 3526 2009-08-26 15:27:50 drbd-8.3.4/scripts/notify.sh
-rwxrwxr-x root/root 3015 2008-11-24 11:43:33 drbd-8.3.4/scripts/outdate-peer.sh
-rw-rw-r-- root/root 5455 2009-08-26 15:27:50 drbd-8.3.4/scripts/patch-kernel
-rw-rw-r-- root/root 2732 2009-05-26 14:49:07 drbd-8.3.4/scripts/pretty-proc-drbd.sh
-rwxrwxr-x root/root 2099 2009-05-26 14:49:07
drbd-8.3.4/scripts/snapshot-resync-target-lvm.sh
lrwxrwxrwx root/root 0 2009-12-01 09:19:09
drbd-8.3.4/scripts/unsnapshot-resync-target-lvm.sh -> snapshot-resync-target-lvm.sh
-rw-rw-r-- root/root 3700 2009-09-14 16:04:52 drbd-8.3.4/user/Makefile
drwxr-xr-x Creating directory: drbd-8.3.4/user
-rw-rw-r-- root/root 5081 2009-09-14 16:04:52 drbd-8.3.4/user/drbd_endian.h
-rw-rw-r-- root/root 7292 2009-08-26 15:27:50 drbd-8.3.4/user/drbdadm.h
-rw-rw-r-- root/root 7548 2009-08-26 15:27:50 drbd-8.3.4/user/drbdadm_adjust.c
-rw-rw-r-- root/root 79941 2009-09-08 11:34:48 drbd-8.3.4/user/drbdadm_main.c
-rw-rw-r-- root/root 4314 2009-07-27 10:47:43 drbd-8.3.4/user/drbdadm_minor_table.c
-rw-rw-r-- root/root 39131 2009-08-26 15:27:50 drbd-8.3.4/user/drbdadm_parser.c
-rw-rw-r-- root/root 2621 2009-08-26 15:27:50 drbd-8.3.4/user/drbdadm_parser.h
-rw-rw-r-- root/root 7565 2009-08-26 15:27:50 drbd-8.3.4/user/drbdadm_scanner.fl
-rw-rw-r-- root/root 17947 2009-09-14 16:04:52 drbd-8.3.4/user/drbdadm_usage_cnt.c
-rw-rw-r-- root/root 77823 2009-09-14 16:04:52 drbd-8.3.4/user/drbdmeta.c
-rw-rw-r-- root/root 479 2009-09-14 16:04:52 drbd-8.3.4/user/drbdmeta_parser.h
-rw-rw-r-- root/root 2306 2009-06-10 13:36:37 drbd-8.3.4/user/drbdmeta_scanner.fl
-rw-rw-r-- root/root 71860 2009-10-05 14:52:03 drbd-8.3.4/user/drbdsetup.c
-rw-rw-r-- root/root 14171 2009-09-14 16:04:52 drbd-8.3.4/user/drbdtool_common.c

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-rw-rw-r-- root/root      2445 2009-09-14 16:04:52 drbd-8.3.4/user/drbdtool_common.h
-rw-rw-r-- root/root      1783 2009-07-27 10:47:43 drbd-8.3.4/user/unaligned.h
-rw-rw-r-- root/root     35357 2009-10-06 14:36:00 drbd-8.3.4/documentation/drbdsetup.8
-rw-rw-r-- root/root     36452 2009-10-06 14:36:01 drbd-8.3.4/documentation/drbd.conf.5
-rw-rw-r-- root/root      1956 2009-10-06 14:36:02 drbd-8.3.4/documentation/drbd.8
-rw-rw-r-- root/root      8152 2009-10-06 14:36:03 drbd-8.3.4/documentation/drbdadm.8
-rw-rw-r-- root/root      1798 2009-10-06 14:36:04 drbd-8.3.4/documentation/drbddisk.8
-rw-rw-r-- root/root      3633 2009-10-06 14:36:05 drbd-8.3.4/documentation/drbdmeta.8
lrwxrwxrwx root/root         0 2009-12-01 09:20:38 drbd-8.3.4/drbd_config.h ->
drbd/linux/drbd_config.h
-rw-r--r-- root/root       238 2009-12-01 09:20:38 drbd-8.3.4/drbd/drbd_buildtag.c
-rw-rw-r-- root/root      3171 2009-10-06 14:36:05 drbd-8.3.4/.filelist
+ STATUS=0
+ '[' 0 -ne 0 ']'
+ cd drbd-8.3.4
++ /usr/bin/id -u
+ '[' 0 = 0 ']'
+ /bin/chown -Rhf root .
++ /usr/bin/id -u
+ '[' 0 = 0 ']'
+ /bin/chgrp -Rhf root .
+ /bin/chmod -Rf a+rX,u+w,g-w,o-w .
+ test -d /lib/modules/2.6.18-164.2.1.el5.028stab066.7/build/.
++ scripts/get_uts_release.sh
+ test 2.6.18-164.2.1.el5.028stab066.7 = 2.6.18-164.2.1.el5.028stab066.7
+ exit 0
Executing(%build): /bin/sh -e /var/tmp/rpm-tmp.54854
+ umask 022
+ cd /tmp/drbd-8.3.4/dist/BUILD
+ cd drbd-8.3.4
+ LANG=C
+ export LANG
+ unset DISPLAY
+ echo kernelversion=2.6.18-164.2.1.el5.028stab066.7
kernelversion=2.6.18-164.2.1.el5.028stab066.7
+ echo 'kversion=%{kversion}'
kversion=%{kversion}
+ echo krelver=2.6.18_164.2.1.el5.028stab066.7
krelver=2.6.18_164.2.1.el5.028stab066.7
+ '[' -n /tmp/drbd-8.3.4/dist/install -a /tmp/drbd-8.3.4/dist/install '!=' / ']'
+ rm -rf /tmp/drbd-8.3.4/dist/install
+ mkdir -p /tmp/drbd-8.3.4/dist/install
+ make clean
make[1]: Entering directory `/tmp/drbd-8.3.4/dist/BUILD/drbd-8.3.4'
make[2]: Entering directory `/tmp/drbd-8.3.4/dist/BUILD/drbd-8.3.4/user'
rm -f drbdadm_scanner.c drbdmeta_scanner.c
rm -f drbdsetup drbdadm drbdmeta drbdmeta_unfinished_rewrite *.o
rm -f drbd_buildtag.c drbd_strings.c
```

```
rm -f *~
make[2]: Leaving directory `/tmp/drbd-8.3.4/dist/BUILD/drbd-8.3.4/user'
make[2]: Entering directory `/tmp/drbd-8.3.4/dist/BUILD/drbd-8.3.4/scripts'
rm -f *~
rm -f datadisk
make[2]: Leaving directory `/tmp/drbd-8.3.4/dist/BUILD/drbd-8.3.4/scripts'
make[2]: Entering directory `/tmp/drbd-8.3.4/dist/BUILD/drbd-8.3.4/documentation'
To clean the documentation: make doc-clean
make[2]: Leaving directory `/tmp/drbd-8.3.4/dist/BUILD/drbd-8.3.4/documentation'
make[2]: Entering directory `/tmp/drbd-8.3.4/dist/BUILD/drbd-8.3.4/drbd'
rm -rf .tmp_versions
rm -f *.[oas] *.ko .*.cmd .*.d .*.tmp *.mod.c .*.flags .depend .kernel*
make[2]: Leaving directory `/tmp/drbd-8.3.4/dist/BUILD/drbd-8.3.4/drbd'
rm -f *~
rm -rf dist
make[1]: Leaving directory `/tmp/drbd-8.3.4/dist/BUILD/drbd-8.3.4'
+ '[' -e /etc/redhat-release ']'
+ make all doc PREFIX=/tmp/drbd-8.3.4/dist/install/ MANDIR=/usr/share/man
KDIR=/lib/modules/2.6.18-164.2.1.el5.028stab066.7/build LOCALVERSION=
make[1]: Entering directory `/tmp/drbd-8.3.4/dist/BUILD/drbd-8.3.4'
make -C drbd drbd_buildtag.c
make[2]: Entering directory `/tmp/drbd-8.3.4/dist/BUILD/drbd-8.3.4/drbd'
make[2]: Leaving directory `/tmp/drbd-8.3.4/dist/BUILD/drbd-8.3.4/drbd'
make[2]: Entering directory `/tmp/drbd-8.3.4/dist/BUILD/drbd-8.3.4/user'
flex -s -odrbdadm_scanner.c drbdadm_scanner.fl
gcc -O1 -c -W -Wall -I../drbd   -c -o drbdadm_scanner.o drbdadm_scanner.c
drbdadm_scanner.fl:24: warning: 'yyunput' declared 'static' but never defined
gcc -O1 -c -W -Wall -I../drbd   -c -o drbdadm_parser.o drbdadm_parser.c
gcc -O1 -c -W -Wall -I../drbd   -c -o drbdadm_main.o drbdadm_main.c
gcc -O1 -c -W -Wall -I../drbd   -c -o drbdadm_adjust.o drbdadm_adjust.c
gcc -O1 -c -W -Wall -I../drbd   -c -o drbdtool_common.o drbdtool_common.c
gcc -O1 -c -W -Wall -I../drbd   -c -o drbdadm_usage_cnt.o drbdadm_usage_cnt.c
cp ../drbd/drbd_buildtag.c drbd_buildtag.c
gcc -O1 -c -W -Wall -I../drbd   -c -o drbd_buildtag.o drbd_buildtag.c
gcc -O1 -c -W -Wall -I../drbd   -c -o drbdadm_minor_table.o drbdadm_minor_table.c
gcc -o drbdadm drbdadm_scanner.o drbdadm_parser.o drbdadm_main.o drbdadm_adjust.o
drbdtool_common.o drbdadm_usage_cnt.o drbd_buildtag.o drbdadm_minor_table.o
gcc -O1 -c -W -Wall -I../drbd   -c -o drbdmeta.o drbdmeta.c
flex -s -odrbdmeta_scanner.c drbdmeta_scanner.fl
gcc -O1 -c -W -Wall -I../drbd   -c -o drbdmeta_scanner.o drbdmeta_scanner.c
drbdmeta_scanner.c: In function 'yylex':
drbdmeta_scanner.c:860: warning: label 'find_rule' defined but not used
drbdmeta_scanner.fl: At top level:
drbdmeta_scanner.fl:14: warning: 'yyunput' declared 'static' but never defined
gcc -o drbdmeta drbdmeta.o drbdmeta_scanner.o drbdtool_common.o drbd_buildtag.o
gcc -O1 -c -W -Wall -I../drbd   -c -o drbdsetup.o drbdsetup.c
cp ../drbd/drbd_strings.c drbd_strings.c
gcc -O1 -c -W -Wall -I../drbd   -c -o drbd_strings.o drbd_strings.c
```

```
gcc -o drbdsetup drbdsetup.o drbdtool_common.o drbd_buildtag.o drbd_strings.o
make[2]: Leaving directory `/tmp/drbd-8.3.4/dist/BUILD/drbd-8.3.4/user'
make[2]: Entering directory `/tmp/drbd-8.3.4/dist/BUILD/drbd-8.3.4/scripts'
make[2]: Nothing to be done for `all'.
make[2]: Leaving directory `/tmp/drbd-8.3.4/dist/BUILD/drbd-8.3.4/scripts'
make[2]: Entering directory `/tmp/drbd-8.3.4/dist/BUILD/drbd-8.3.4/documentation'
To (re)make the documentation: make doc
make[2]: Leaving directory `/tmp/drbd-8.3.4/dist/BUILD/drbd-8.3.4/documentation'

       Userland tools build was successful.
make[2]: Entering directory `/tmp/drbd-8.3.4/dist/BUILD/drbd-8.3.4/drbd'

   Calling toplevel makefile of kernel source tree, which I believe is in
   KDIR=/lib/modules/2.6.18-164.2.1.el5.028stab066.7/build

test -f ../scripts/adjust_drbd_config_h.sh && \
        KDIR=/lib/modules/2.6.18-164.2.1.el5.028stab066.7/build O= /bin/bash
../scripts/adjust_drbd_config_h.sh
/lib/modules/2.6.18-164.2.1.el5.028stab066.7/build /tmp/drbd-8.3.4/dist/BUILD/drbd-8.3.4/drbd
/tmp/drbd-8.3.4/dist/BUILD/drbd-8.3.4/drbd

  Adjusted drbd_config.h:
  --- ./linux/drbd_config.h     2009-10-06 14:32:17.000000000 +0200
  +++ ./linux/drbd_config.h.new 2009-12-01 09:20:40.000000000 +0100
  @@ -67 +67 @@
  -//#define DEFINE_KERNEL_SOCK_SHUTDOWN
  +#define DEFINE_KERNEL_SOCK_SHUTDOWN
  @@ -81 +81 @@
  -//#define HAVE_LINUX_BYTEORDER_SWABB_H
  +#define HAVE_LINUX_BYTEORDER_SWABB_H
  @@ -102 +102 @@
  -#define KERNEL_HAS_CN_SKB_PARMS
  +//#define KERNEL_HAS_CN_SKB_PARMS

make -C /lib/modules/2.6.18-164.2.1.el5.028stab066.7/build
SUBDIRS=/tmp/drbd-8.3.4/dist/BUILD/drbd-8.3.4/drbd  modules
make[3]: Entering directory `/usr/src/kernels/2.6.18-164.2.1.el5.028stab066.7-i686'
  CC [M]  /tmp/drbd-8.3.4/dist/BUILD/drbd-8.3.4/drbd/drbd_buildtag.o
  CC [M]  /tmp/drbd-8.3.4/dist/BUILD/drbd-8.3.4/drbd/drbd_bitmap.o
  CC [M]  /tmp/drbd-8.3.4/dist/BUILD/drbd-8.3.4/drbd/drbd_proc.o
  CC [M]  /tmp/drbd-8.3.4/dist/BUILD/drbd-8.3.4/drbd/drbd_worker.o
  CC [M]  /tmp/drbd-8.3.4/dist/BUILD/drbd-8.3.4/drbd/drbd_receiver.o
/tmp/drbd-8.3.4/dist/BUILD/drbd-8.3.4/drbd/drbd_receiver.c: In function
'drbd_crypto_alloc_digest_safe':
 /tmp/drbd-8.3.4/dist/BUILD/drbd-8.3.4/drbd/drbd_receiver.c:2 729: warning: passing argument 1
of 'crypto_alloc_hash' discards qualifiers from pointer target type
/tmp/drbd-8.3.4/dist/BUILD/drbd-8.3.4/drbd/drbd_receiver.c: In function 'vli_decode_bits':
/tmp/drbd-8.3.4/dist/BUILD/drbd-8.3.4/drbd/drbd_vli.h:164: warning: control reaches end of
```

```
non-void function
/tmp/drbd-8.3.4/dist/BUILD/drbd-8.3.4/drbd/drbd_receiver.c: In function 'receive_bitmap':
 /tmp/drbd-8.3.4/dist/BUILD/drbd-8.3.4/drbd/drbd_receiver.c:3 300: warning: 'rl' may be used
uninitialized in this function
  CC [M]  /tmp/drbd-8.3.4/dist/BUILD/drbd-8.3.4/drbd/drbd_req.o
  CC [M]  /tmp/drbd-8.3.4/dist/BUILD/drbd-8.3.4/drbd/drbd_actlog.o
  CC [M]  /tmp/drbd-8.3.4/dist/BUILD/drbd-8.3.4/drbd/lru_cache.o
  CC [M]  /tmp/drbd-8.3.4/dist/BUILD/drbd-8.3.4/drbd/drbd_main.o
 /tmp/drbd-8.3.4/dist/BUILD/drbd-8.3.4/drbd/drbd_main.c:52:24 : error: linux/swab.h: No such file
or directory
/tmp/drbd-8.3.4/dist/BUILD/drbd-8.3.4/drbd/drbd_main.c: In function 'drbd_free_sock':
 /tmp/drbd-8.3.4/dist/BUILD/drbd-8.3.4/drbd/drbd_main.c:3389: error: implicit declaration of
function 'kernel_sock_shutdown'
 /tmp/drbd-8.3.4/dist/BUILD/drbd-8.3.4/drbd/drbd_main.c:3389: error: 'SHUT_RDWR' undeclared
(first use in this function)
 /tmp/drbd-8.3.4/dist/BUILD/drbd-8.3.4/drbd/drbd_main.c:3389: error: (Each undeclared identifier
is reported only once
 /tmp/drbd-8.3.4/dist/BUILD/drbd-8.3.4/drbd/drbd_main.c:3389: error: for each function it appears
in.)
/tmp/drbd-8.3.4/dist/BUILD/drbd-8.3.4/drbd/drbd_main.c: In function '_drbd_fault_random':
 /tmp/drbd-8.3.4/dist/BUILD/drbd-8.3.4/drbd/drbd_main.c:3870: error: implicit declaration of
function 'swahw32'
make[4]: *** [/tmp/drbd-8.3.4/dist/BUILD/drbd-8.3.4/drbd/drbd_main.o] Error 1
make[3]: *** [_module_/tmp/drbd-8.3.4/dist/BUILD/drbd-8.3.4/drbd] Error 2
make[3]: Leaving directory `/usr/src/kernels/2.6.18-164.2.1.el5.028stab066.7-i686'
make[2]: *** [kbuild] Error 2
make[2]: Leaving directory `/tmp/drbd-8.3.4/dist/BUILD/drbd-8.3.4/drbd'
make[1]: *** [module] Error 2
make[1]: Leaving directory `/tmp/drbd-8.3.4/dist/BUILD/drbd-8.3.4'
error: Bad exit status from /var/tmp/rpm-tmp.54854 (%build)


RPM build errors:
    Bad exit status from /var/tmp/rpm-tmp.54854 (%build)
make: *** [rpm] Error 1
[root@hostname drbd-8.3.4]#
```

And these are the details about the successful build process:

```
[root@hostname drbd-8.3.4]# uname -a
Linux hostname.domain.net 2.6.18-164.2.1.el5 #1 SMP Wed Sep 30 12:55:19 EDT 2009 i686
i686 i386 GNU/Linux
[root@hostname drbd-8.3.4]# pwd
/tmp/drbd-8.3.4
[root@hostname drbd-8.3.4]# make rpm
checking for presence of 8\.3\.4 in various changelog files
```

```
        debian/changelog needs update [ignored]

make -C drbd drbd_buildtag.c
make[1]: Entering directory `/tmp/drbd-8.3.4/drbd'
make[1]: Leaving directory `/tmp/drbd-8.3.4/drbd'
make -C documentation doc
make[1]: Entering directory `/tmp/drbd-8.3.4/documentation'
make[1]: Nothing to be done for `doc'.
make[1]: Leaving directory `/tmp/drbd-8.3.4/documentation'
test -e .filelist
ln -sf drbd/linux/drbd_config.h drbd_config.h
rm -f drbd-8.3.4
ln -s . drbd-8.3.4
for f in $(<.filelist) ; do [ -e $f ] && continue ; echo missing: $f ; exit 1; done
grep debian .filelist >/dev/null 2>&1 && _DEB=-debian || _DEB="" ; \
        tar --owner=0 --group=0 -czf - -T .filelist > drbd-8.3.4$_DEB.tar.gz
rm drbd-8.3.4
mkdir -p dist/BUILD \
                dist/RPMS  \
                dist/SPECS \
                dist/SOURCES \
                dist/TMP \
                dist/install \
                dist/SRPMS
[ -h dist/SOURCES/drbd-8.3.4.tar.gz ] || \
          ln -s /tmp/drbd-8.3.4/drbd-8.3.4.tar.gz \
                 /tmp/drbd-8.3.4/dist/SOURCES/drbd-8.3.4.tar.gz
if test drbd.spec.in -nt dist/SPECS/drbd.spec ; then \
           sed -e "s/^\(Version:\).*/\1 8.3.4/;" \
               -e "s/^\(Packager:\).*/\1 root@hostname.domain.net/;" < drbd.spec.in \
           > dist/SPECS/drbd.spec ; \
         fi
rpmbuild -bb \
            --define "_topdir /tmp/drbd-8.3.4/dist" \
            --define "buildroot /tmp/drbd-8.3.4/dist/install" \
            --define "kernelversion 2.6.18-164.2.1.el5" \
            --define "kdir /lib/modules/2.6.18-164.2.1.el5/build" \
             \
            /tmp/drbd-8.3.4/dist/SPECS/drbd.spec
Executing(%prep): /bin/sh -e /var/tmp/rpm-tmp.30476
+ umask 022
+ cd /tmp/drbd-8.3.4/dist/BUILD
+ LANG=C
+ export LANG
+ unset DISPLAY
+ cd /tmp/drbd-8.3.4/dist/BUILD
+ rm -rf drbd-8.3.4
```

```
+ /bin/gzip -dc /tmp/drbd-8.3.4/dist/SOURCES/drbd-8.3.4.tar.gz
+ tar -xvvf -
-rw-rw-r-- root/root      875 2008-11-24 11:43:32 drbd-8.3.4/.gitignore
drwxr-xr-x               Creating directory: drbd-8.3.4
-rw-rw-r-- root/root    17990 2008-11-24 11:43:32 drbd-8.3.4/COPYING
-rw-rw-r-- root/root    26897 2009-10-06 14:34:41 drbd-8.3.4/ChangeLog
-rw-rw-r-- root/root     7054 2009-05-26 14:49:07 drbd-8.3.4/Makefile
-rw-rw-r-- root/root      425 2009-05-26 14:49:07 drbd-8.3.4/README
-rw-rw-r-- root/root      191 2009-05-26 14:49:07 drbd-8.3.4/benchmark/Makefile
drwxr-xr-x               Creating directory: drbd-8.3.4/benchmark
-rw-rw-r-- root/root       95 2007-10-22 17:38:27 drbd-8.3.4/benchmark/README
-rw-rw-r-- root/root    10173 2009-07-27 10:47:42 drbd-8.3.4/benchmark/dm.c
-rw-rw-r-- root/root     8639 2009-07-27 10:47:42 drbd-8.3.4/benchmark/io-latency-test.c
-rw-rw-r-- root/root     2293 2009-08-26 15:27:50 drbd-8.3.4/documentation/Makefile
drwxr-xr-x               Creating directory: drbd-8.3.4/documentation
-rw-rw-r-- root/root     2860 2008-11-24 11:43:32 drbd-8.3.4/documentation/Makefile.lang
-rw-rw-r-- root/root     2018 2009-08-26 15:27:50 drbd-8.3.4/documentation/aspell.en.per
-rw-rw-r-- root/root    68148 2009-09-29 10:03:16 drbd-8.3.4/documentation/drbd.conf.xml
-rw-rw-r-- root/root     3522 2009-08-26 15:27:50 drbd-8.3.4/documentation/drbd.xml
-rw-rw-r-- root/root    18425 2009-08-26 15:27:50 drbd-8.3.4/documentation/drbdadm.xml
-rw-rw-r-- root/root     3176 2009-08-26 15:27:50 drbd-8.3.4/documentation/drbddisk.xml
-rw-rw-r-- root/root     7163 2009-08-26 15:27:50 drbd-8.3.4/documentation/drbdmeta.xml
-rw-rw-r-- root/root    70034 2009-09-29 10:03:19 drbd-8.3.4/documentation/drbdsetup.xml
-rw-rw-r-- root/root    28845 2009-10-06 14:34:36 drbd-8.3.4/drbd.spec.in
-rw-rw-r-- root/root     1734 2009-09-29 10:35:31 drbd-8.3.4/drbd/Kconfig
drwxr-xr-x               Creating directory: drbd-8.3.4/drbd
-rw-rw-r-- root/root     7565 2009-09-07 12:21:47 drbd-8.3.4/drbd/Makefile
-rw-rw-r-- root/root      362 2009-08-26 15:27:50 drbd-8.3.4/drbd/Makefile-2.6
-rw-rw-r-- root/root     4932 2009-07-27 10:47:43 drbd-8.3.4/drbd/cn_queue.c
-rw-rw-r-- root/root    12046 2009-10-06 13:32:41 drbd-8.3.4/drbd/connector.c
-rw-rw-r-- root/root    41271 2009-09-14 16:04:52 drbd-8.3.4/drbd/drbd_actlog.c
-rw-rw-r-- root/root    37380 2009-08-26 15:27:50 drbd-8.3.4/drbd/drbd_bitmap.c
-rw-rw-r-- root/root    77793 2009-09-14 16:04:52 drbd-8.3.4/drbd/drbd_int.h
-rw-rw-r-- root/root   106310 2009-09-14 16:44:36 drbd-8.3.4/drbd/drbd_main.c
-rw-rw-r-- root/root    67642 2009-10-05 14:52:03 drbd-8.3.4/drbd/drbd_nl.c
-rw-rw-r-- root/root     7485 2009-08-26 15:27:50 drbd-8.3.4/drbd/drbd_proc.c
-rw-rw-r-- root/root   124900 2009-09-14 16:04:52 drbd-8.3.4/drbd/drbd_receiver.c
-rw-rw-r-- root/root    37373 2009-08-26 15:27:50 drbd-8.3.4/drbd/drbd_req.c
-rw-rw-r-- root/root    10346 2009-08-26 15:27:50 drbd-8.3.4/drbd/drbd_req.h
-rw-rw-r-- root/root     4243 2009-08-26 15:27:50 drbd-8.3.4/drbd/drbd_strings.c
-rw-rw-r-- root/root    21430 2009-09-29 09:51:14 drbd-8.3.4/drbd/drbd_tracing.c
-rw-rw-r-- root/root     2655 2009-07-27 10:47:43 drbd-8.3.4/drbd/drbd_tracing.h
-rw-rw-r-- root/root    11513 2009-07-27 10:47:43 drbd-8.3.4/drbd/drbd_vli.h
-rw-rw-r-- root/root    41241 2009-09-14 16:04:52 drbd-8.3.4/drbd/drbd_worker.c
-rw-rw-r-- root/root    16844 2009-08-26 15:27:50 drbd-8.3.4/drbd/drbd_wrappers.h
-rw-rw-r-- root/root     4091 2009-07-27 10:47:42 drbd-8.3.4/drbd/linux/connector.h
drwxr-xr-x               Creating directory: drbd-8.3.4/drbd/linux
-rw-rw-r-- root/root     9923 2009-10-05 14:52:03 drbd-8.3.4/drbd/linux/drbd.h
```

-rw-rw-r-- root/root 3059 2009-10-06 14:32:17 drbd-8.3.4/drbd/linux/drbd_config.h
-rw-rw-r-- root/root 3881 2009-09-29 09:51:14 drbd-8.3.4/drbd/linux/drbd_limits.h
-rw-rw-r-- root/root 4068 2009-07-28 16:26:11 drbd-8.3.4/drbd/linux/drbd_nl.h
-rw-rw-r-- root/root 2772 2009-07-27 10:47:43 drbd-8.3.4/drbd/linux/drbd_tag_magic.h
-rw-rw-r-- root/root 26 2009-07-27 10:47:42 drbd-8.3.4/drbd/linux/hardirq.h
-rw-rw-r-- root/root 12315 2009-07-27 10:47:43 drbd-8.3.4/drbd/linux/lru_cache.h
-rw-rw-r-- root/root 133 2009-07-27 10:47:43 drbd-8.3.4/drbd/linux/memcontrol.h
-rw-rw-r-- root/root 611 2009-07-27 10:47:42 drbd-8.3.4/drbd/linux/mutex.h
-rw-rw-r-- root/root 19 2009-07-27 10:47:43 drbd-8.3.4/drbd/linux/tracepoint.h
-rw-rw-r-- root/root 14754 2009-08-26 15:27:50 drbd-8.3.4/drbd/lru_cache.c
-rw-rw-r-- root/root 5379 2009-08-26 15:27:50 drbd-8.3.4/scripts/Makefile
drwxr-xr-x Creating directory: drbd-8.3.4/scripts
-rw-rw-r-- root/root 755 2009-06-09 13:33:03 drbd-8.3.4/scripts/README
-rwxrwxr-x root/root 5651 2009-10-05 14:52:03 drbd-8.3.4/scripts/adjust_drbd_config_h.sh
-rwxrwxr-x root/root 8047 2009-05-26 14:49:07 drbd-8.3.4/scripts/block-drbd
-rwxrwxr-x root/root 16152 2009-09-07 12:21:47 drbd-8.3.4/scripts/crm-fence-peer.sh
-rwxrwxr-x root/root 5607 2009-06-09 13:33:03 drbd-8.3.4/scripts/drbd
-rwxrwxr-x root/root 6250 2009-06-09 13:33:03 drbd-8.3.4/scripts/drbd-overview.pl
-rw-rw-r-- root/root 23759 2009-08-26 15:27:50 drbd-8.3.4/scripts/drbd.conf
-rw-rw-r-- root/root 3380 2008-11-24 11:43:33 drbd-8.3.4/scripts/drbd.gentoo
-rw-rw-r-- root/root 1420 2009-05-26 14:49:07 drbd-8.3.4/scripts/drbd.metadata.rhcs
-rw-rw-r-- root/root 24297 2009-10-05 09:42:05 drbd-8.3.4/scripts/drbd.ocf
-rw-rw-r-- root/root 649 2009-06-09 13:33:03 drbd-8.3.4/scripts/drbd.rules
-rwxrwxr-x root/root 3353 2009-05-26 14:49:07 drbd-8.3.4/scripts/drbd.sh.rhcs
-rw-rw-r-- root/root 4514 2009-05-26 14:49:07 drbd-8.3.4/scripts/drbdadm.bash_completion
-rwxrwxr-x root/root 2141 2009-05-26 14:49:07 drbd-8.3.4/scripts/drbddisk
-rw-rw-r-- root/root 1117 2009-05-26 14:49:07 drbd-8.3.4/scripts/drbdupper
-rwxrwxr-x root/root 334 2008-11-24 11:43:33 drbd-8.3.4/scripts/get_uts_release.sh
-rwxrwxr-x root/root 3526 2009-08-26 15:27:50 drbd-8.3.4/scripts/notify.sh
-rwxrwxr-x root/root 3015 2008-11-24 11:43:33 drbd-8.3.4/scripts/outdate-peer.sh
-rw-rw-r-- root/root 5455 2009-08-26 15:27:50 drbd-8.3.4/scripts/patch-kernel
-rw-rw-r-- root/root 2732 2009-05-26 14:49:07 drbd-8.3.4/scripts/pretty-proc-drbd.sh
-rwxrwxr-x root/root 2099 2009-05-26 14:49:07
drbd-8.3.4/scripts/snapshot-resync-target-lvm.sh
lrwxrwxrwx root/root 0 2009-12-01 09:34:44
drbd-8.3.4/scripts/unsnapshot-resync-target-lvm.sh -> snapshot-resync-target-lvm.sh
-rw-rw-r-- root/root 3700 2009-09-14 16:04:52 drbd-8.3.4/user/Makefile
drwxr-xr-x Creating directory: drbd-8.3.4/user
-rw-rw-r-- root/root 5081 2009-09-14 16:04:52 drbd-8.3.4/user/drbd_endian.h
-rw-rw-r-- root/root 7292 2009-08-26 15:27:50 drbd-8.3.4/user/drbdadm.h
-rw-rw-r-- root/root 7548 2009-08-26 15:27:50 drbd-8.3.4/user/drbdadm_adjust.c
-rw-rw-r-- root/root 79941 2009-09-08 11:34:48 drbd-8.3.4/user/drbdadm_main.c
-rw-rw-r-- root/root 4314 2009-07-27 10:47:43 drbd-8.3.4/user/drbdadm_minor_table.c
-rw-rw-r-- root/root 39131 2009-08-26 15:27:50 drbd-8.3.4/user/drbdadm_parser.c
-rw-rw-r-- root/root 2621 2009-08-26 15:27:50 drbd-8.3.4/user/drbdadm_parser.h
-rw-rw-r-- root/root 7565 2009-08-26 15:27:50 drbd-8.3.4/user/drbdadm_scanner.fl
-rw-rw-r-- root/root 17947 2009-09-14 16:04:52 drbd-8.3.4/user/drbdadm_usage_cnt.c
-rw-rw-r-- root/root 77823 2009-09-14 16:04:52 drbd-8.3.4/user/drbdmeta.c

```
-rw-rw-r-- root/root       479 2009-09-14 16:04:52 drbd-8.3.4/user/drbdmeta_parser.h
-rw-rw-r-- root/root      2306 2009-06-10 13:36:37 drbd-8.3.4/user/drbdmeta_scanner.fl
-rw-rw-r-- root/root     71860 2009-10-05 14:52:03 drbd-8.3.4/user/drbdsetup.c
-rw-rw-r-- root/root     14171 2009-09-14 16:04:52 drbd-8.3.4/user/drbdtool_common.c
-rw-rw-r-- root/root      2445 2009-09-14 16:04:52 drbd-8.3.4/user/drbdtool_common.h
-rw-rw-r-- root/root      1783 2009-07-27 10:47:43 drbd-8.3.4/user/unaligned.h
-rw-rw-r-- root/root     35357 2009-10-06 14:36:00 drbd-8.3.4/documentation/drbdsetup.8
-rw-rw-r-- root/root     36452 2009-10-06 14:36:01 drbd-8.3.4/documentation/drbd.conf.5
-rw-rw-r-- root/root      1956 2009-10-06 14:36:02 drbd-8.3.4/documentation/drbd.8
-rw-rw-r-- root/root      8152 2009-10-06 14:36:03 drbd-8.3.4/documentation/drbdadm.8
-rw-rw-r-- root/root      1798 2009-10-06 14:36:04 drbd-8.3.4/documentation/drbddisk.8
-rw-rw-r-- root/root      3633 2009-10-06 14:36:05 drbd-8.3.4/documentation/drbdmeta.8
lrwxrwxrwx root/root         0 2009-12-01 09:39:54 drbd-8.3.4/drbd_config.h ->
drbd/linux/drbd_config.h
-rw-r--r-- root/root       238 2009-12-01 09:39:54 drbd-8.3.4/drbd/drbd_buildtag.c
-rw-rw-r-- root/root      3171 2009-10-06 14:36:05 drbd-8.3.4/.filelist
+ STATUS=0
+ '[' 0 -ne 0 ']'
+ cd drbd-8.3.4
++ /usr/bin/id -u
+ '[' 0 = 0 ']'
+ /bin/chown -Rhf root .
++ /usr/bin/id -u
+ '[' 0 = 0 ']'
+ /bin/chgrp -Rhf root .
+ /bin/chmod -Rf a+rX,u+w,g-w,o-w .
+ test -d /lib/modules/2.6.18-164.2.1.el5/build/.
++ scripts/get_uts_release.sh
+ test 2.6.18-164.2.1.el5 = 2.6.18-164.2.1.el5
+ exit 0
Executing(%build): /bin/sh -e /var/tmp/rpm-tmp.30476
+ umask 022
+ cd /tmp/drbd-8.3.4/dist/BUILD
+ cd drbd-8.3.4
+ LANG=C
+ export LANG
+ unset DISPLAY
+ echo kernelversion=2.6.18-164.2.1.el5
kernelversion=2.6.18-164.2.1.el5
+ echo 'kversion=%{kversion}'
kversion=%{kversion}
+ echo krelver=2.6.18_164.2.1.el5
krelver=2.6.18_164.2.1.el5
+ '[' -n /tmp/drbd-8.3.4/dist/install -a /tmp/drbd-8.3.4/dist/install '!=' / ']'
+ rm -rf /tmp/drbd-8.3.4/dist/install
+ mkdir -p /tmp/drbd-8.3.4/dist/install
+ make clean
make[1]: Entering directory `/tmp/drbd-8.3.4/dist/BUILD/drbd-8.3.4'
```

```
make[2]: Entering directory `/tmp/drbd-8.3.4/dist/BUILD/drbd-8.3.4/user'
rm -f drbdadm_scanner.c drbdmeta_scanner.c
rm -f drbdsetup drbdadm drbdmeta drbdmeta_unfinished_rewrite *.o
rm -f drbd_buildtag.c drbd_strings.c
rm -f *~
make[2]: Leaving directory `/tmp/drbd-8.3.4/dist/BUILD/drbd-8.3.4/user'
make[2]: Entering directory `/tmp/drbd-8.3.4/dist/BUILD/drbd-8.3.4/scripts'
rm -f *~
rm -f datadisk
make[2]: Leaving directory `/tmp/drbd-8.3.4/dist/BUILD/drbd-8.3.4/scripts'
make[2]: Entering directory `/tmp/drbd-8.3.4/dist/BUILD/drbd-8.3.4/documentation'
To clean the documentation: make doc-clean
make[2]: Leaving directory `/tmp/drbd-8.3.4/dist/BUILD/drbd-8.3.4/documentation'
make[2]: Entering directory `/tmp/drbd-8.3.4/dist/BUILD/drbd-8.3.4/drbd'
rm -rf .tmp_versions
rm -f *.[oas] *.ko .*.cmd .*.d .*.tmp *.mod.c .*.flags .depend .kernel*
make[2]: Leaving directory `/tmp/drbd-8.3.4/dist/BUILD/drbd-8.3.4/drbd'
rm -f *~
rm -rf dist
make[1]: Leaving directory `/tmp/drbd-8.3.4/dist/BUILD/drbd-8.3.4'
+ '[' -e /etc/redhat-release ']'
+ make all doc PREFIX=/tmp/drbd-8.3.4/dist/install/ MANDIR=/usr/share/man
KDIR=/lib/modules/2.6.18-164.2.1.el5/build LOCALVERSION=
make[1]: Entering directory `/tmp/drbd-8.3.4/dist/BUILD/drbd-8.3.4'
make -C drbd drbd_buildtag.c
make[2]: Entering directory `/tmp/drbd-8.3.4/dist/BUILD/drbd-8.3.4/drbd'
make[2]: Leaving directory `/tmp/drbd-8.3.4/dist/BUILD/drbd-8.3.4/drbd'
make[2]: Entering directory `/tmp/drbd-8.3.4/dist/BUILD/drbd-8.3.4/user'
flex -s -odrbdadm_scanner.c drbdadm_scanner.fl
gcc -O1 -c -W -Wall -I../drbd   -c -o drbdadm_scanner.o drbdadm_scanner.c
drbdadm_scanner.fl:24: warning: 'yyunput' declared 'static' but never defined
gcc -O1 -c -W -Wall -I../drbd   -c -o drbdadm_parser.o drbdadm_parser.c
gcc -O1 -c -W -Wall -I../drbd   -c -o drbdadm_main.o drbdadm_main.c
gcc -O1 -c -W -Wall -I../drbd   -c -o drbdadm_adjust.o drbdadm_adjust.c
gcc -O1 -c -W -Wall -I../drbd   -c -o drbdtool_common.o drbdtool_common.c
gcc -O1 -c -W -Wall -I../drbd   -c -o drbdadm_usage_cnt.o drbdadm_usage_cnt.c
cp ../drbd/drbd_buildtag.c drbd_buildtag.c
gcc -O1 -c -W -Wall -I../drbd   -c -o drbd_buildtag.o drbd_buildtag.c
gcc -O1 -c -W -Wall -I../drbd   -c -o drbdadm_minor_table.o drbdadm_minor_table.c
gcc -o drbdadm drbdadm_scanner.o drbdadm_parser.o drbdadm_main.o drbdadm_adjust.o
drbdtool_common.o drbdadm_usage_cnt.o drbd_buildtag.o drbdadm_minor_table.o
gcc -O1 -c -W -Wall -I../drbd   -c -o drbdmeta.o drbdmeta.c
flex -s -odrbdmeta_scanner.c drbdmeta_scanner.fl
gcc -O1 -c -W -Wall -I../drbd   -c -o drbdmeta_scanner.o drbdmeta_scanner.c
drbdmeta_scanner.c: In function 'yylex':
drbdmeta_scanner.c:860: warning: label 'find_rule' defined but not used
drbdmeta_scanner.fl: At top level:
drbdmeta_scanner.fl:14: warning: 'yyunput' declared 'static' but never defined
```

```
gcc -o drbdmeta drbdmeta.o drbdmeta_scanner.o drbdtool_common.o drbd_buildtag.o
gcc -O1 -c -W -Wall -I../drbd   -c -o drbdsetup.o drbdsetup.c
cp ../drbd/drbd_strings.c drbd_strings.c
gcc -O1 -c -W -Wall -I../drbd   -c -o drbd_strings.o drbd_strings.c
gcc -o drbdsetup drbdsetup.o drbdtool_common.o drbd_buildtag.o drbd_strings.o
make[2]: Leaving directory `/tmp/drbd-8.3.4/dist/BUILD/drbd-8.3.4/user'
make[2]: Entering directory `/tmp/drbd-8.3.4/dist/BUILD/drbd-8.3.4/scripts'
make[2]: Nothing to be done for `all'.
make[2]: Leaving directory `/tmp/drbd-8.3.4/dist/BUILD/drbd-8.3.4/scripts'
make[2]: Entering directory `/tmp/drbd-8.3.4/dist/BUILD/drbd-8.3.4/documentation'
To (re)make the documentation: make doc
make[2]: Leaving directory `/tmp/drbd-8.3.4/dist/BUILD/drbd-8.3.4/documentation'

       Userland tools build was successful.
make[2]: Entering directory `/tmp/drbd-8.3.4/dist/BUILD/drbd-8.3.4/drbd'

   Calling toplevel makefile of kernel source tree, which I believe is in
   KDIR=/lib/modules/2.6.18-164.2.1.el5/build

test -f ../scripts/adjust_drbd_config_h.sh && \
       KDIR=/lib/modules/2.6.18-164.2.1.el5/build O= /bin/bash ../scripts/adjust_drbd_config_h.sh
/lib/modules/2.6.18-164.2.1.el5/build /tmp/drbd-8.3.4/dist/BUILD/drbd-8.3.4/drbd
/tmp/drbd-8.3.4/dist/BUILD/drbd-8.3.4/drbd

  Adjusted drbd_config.h:
  --- ./linux/drbd_config.h     2009-10-06 14:32:17.000000000 +0200
  +++ ./linux/drbd_config.h.new 2009-12-01 09:39:58.000000000 +0100
  @@ -67 +67 @@
  -//#define DEFINE_KERNEL_SOCK_SHUTDOWN
  +#define DEFINE_KERNEL_SOCK_SHUTDOWN
  @@ -81 +81 @@
  -//#define HAVE_LINUX_BYTEORDER_SWABB_H
  +#define HAVE_LINUX_BYTEORDER_SWABB_H
  @@ -102 +102 @@
  -#define KERNEL_HAS_CN_SKB_PARMS
  +//#define KERNEL_HAS_CN_SKB_PARMS

make -C /lib/modules/2.6.18-164.2.1.el5/build
SUBDIRS=/tmp/drbd-8.3.4/dist/BUILD/drbd-8.3.4/drbd  modules
make[3]: Entering directory `/usr/src/kernels/2.6.18-164.2.1.el5-i686'
  CC [M]  /tmp/drbd-8.3.4/dist/BUILD/drbd-8.3.4/drbd/drbd_buildtag.o
  CC [M]  /tmp/drbd-8.3.4/dist/BUILD/drbd-8.3.4/drbd/drbd_bitmap.o
  CC [M]  /tmp/drbd-8.3.4/dist/BUILD/drbd-8.3.4/drbd/drbd_proc.o
  CC [M]  /tmp/drbd-8.3.4/dist/BUILD/drbd-8.3.4/drbd/drbd_worker.o
  CC [M]  /tmp/drbd-8.3.4/dist/BUILD/drbd-8.3.4/drbd/drbd_receiver.o
/tmp/drbd-8.3.4/dist/BUILD/drbd-8.3.4/drbd/drbd_receiver.c: In function
'drbd_crypto_alloc_digest_safe':
 /tmp/drbd-8.3.4/dist/BUILD/drbd-8.3.4/drbd/drbd_receiver.c:2 729: warning: passing argument 1
```

```
of 'crypto_alloc_hash' discards qualifiers from pointer target type
/tmp/drbd-8.3.4/dist/BUILD/drbd-8.3.4/drbd/drbd_receiver.c: In function 'vli_decode_bits':
/tmp/drbd-8.3.4/dist/BUILD/drbd-8.3.4/drbd/drbd_vli.h:164: warning: control reaches end of
non-void function
/tmp/drbd-8.3.4/dist/BUILD/drbd-8.3.4/drbd/drbd_receiver.c: In function 'receive_bitmap':
 /tmp/drbd-8.3.4/dist/BUILD/drbd-8.3.4/drbd/drbd_receiver.c:3 300: warning: 'rl' may be used
uninitialized in this function
  CC [M]  /tmp/drbd-8.3.4/dist/BUILD/drbd-8.3.4/drbd/drbd_req.o
  CC [M]  /tmp/drbd-8.3.4/dist/BUILD/drbd-8.3.4/drbd/drbd_actlog.o
  CC [M]  /tmp/drbd-8.3.4/dist/BUILD/drbd-8.3.4/drbd/lru_cache.o
  CC [M]  /tmp/drbd-8.3.4/dist/BUILD/drbd-8.3.4/drbd/drbd_main.o
  CC [M]  /tmp/drbd-8.3.4/dist/BUILD/drbd-8.3.4/drbd/drbd_strings.o
  CC [M]  /tmp/drbd-8.3.4/dist/BUILD/drbd-8.3.4/drbd/drbd_nl.o
  LD [M]  /tmp/drbd-8.3.4/dist/BUILD/drbd-8.3.4/drbd/drbd.o
  Building modules, stage 2.
  MODPOST
  CC      /tmp/drbd-8.3.4/dist/BUILD/drbd-8.3.4/drbd/drbd.mod.o
  LD [M]  /tmp/drbd-8.3.4/dist/BUILD/drbd-8.3.4/drbd/drbd.ko
make[3]: Leaving directory `/usr/src/kernels/2.6.18-164.2.1.el5-i686'
mv .drbd_kernelrelease.new .drbd_kernelrelease
Memorizing module configuration ... done.
make[2]: Leaving directory `/tmp/drbd-8.3.4/dist/BUILD/drbd-8.3.4/drbd'

        Module build was successful.
make -C documentation doc
make[2]: Entering directory `/tmp/drbd-8.3.4/dist/BUILD/drbd-8.3.4/documentation'
make[2]: Nothing to be done for `doc'.
make[2]: Leaving directory `/tmp/drbd-8.3.4/dist/BUILD/drbd-8.3.4/documentation'
make[1]: Leaving directory `/tmp/drbd-8.3.4/dist/BUILD/drbd-8.3.4'
+ exit 0
Executing(%install): /bin/sh -e /var/tmp/rpm-tmp.22027
+ umask 022
+ cd /tmp/drbd-8.3.4/dist/BUILD
+ cd drbd-8.3.4
+ LANG=C
+ export LANG
+ unset DISPLAY
+ make install PREFIX=/tmp/drbd-8.3.4/dist/install/ MANDIR=/usr/share/man
make[1]: Entering directory `/tmp/drbd-8.3.4/dist/BUILD/drbd-8.3.4'
make[2]: Entering directory `/tmp/drbd-8.3.4/dist/BUILD/drbd-8.3.4/user'
install -d /tmp/drbd-8.3.4/dist/install//sbin/
if getent group haclient > /dev/null 2> /dev/null ; then        \
                install -g haclient -m 4750 drbdsetup /tmp/drbd-8.3.4/dist/install//sbin/ ;     \
                install -g haclient -m 4750 drbdmeta /tmp/drbd-8.3.4/dist/install//sbin/ ;      \
                install -m 755 drbdadm /tmp/drbd-8.3.4/dist/install//sbin/ ;            \
        else                                                    \
                install -m 755 drbdsetup /tmp/drbd-8.3.4/dist/install//sbin/ ;          \
                install -m 755 drbdmeta /tmp/drbd-8.3.4/dist/install//sbin/ ;           \
```

```
                install -m 755 drbdadm /tmp/drbd-8.3.4/dist/install//sbin/ ;            \
        fi
mkdir -p /tmp/drbd-8.3.4/dist/install//var/lib/drbd
make[2]: Leaving directory `/tmp/drbd-8.3.4/dist/BUILD/drbd-8.3.4/user'
make[2]: Entering directory `/tmp/drbd-8.3.4/dist/BUILD/drbd-8.3.4/scripts'
mkdir -p /tmp/drbd-8.3.4/dist/install//etc/ha.d/resource.d
install -d /tmp/drbd-8.3.4/dist/install//etc/rc.d/init.d/
install -m 755 drbd /tmp/drbd-8.3.4/dist/install//etc/rc.d/init.d/drbd
install -m 755 drbddisk /tmp/drbd-8.3.4/dist/install//etc/ha.d/resource.d
install -m 755 drbdupper /tmp/drbd-8.3.4/dist/install//etc/ha.d/resource.d
mkdir -p /tmp/drbd-8.3.4/dist/install//usr/lib/ocf/resource.d/linbit
install -m 755 drbd.ocf  /tmp/drbd-8.3.4/dist/install//usr/lib/ocf/resource.d/linbit/ drbd
install -d /tmp/drbd-8.3.4/dist/install//usr/lib/drbd
install -m 755 outdate-peer.sh /tmp/drbd-8.3.4/dist/install//usr/lib/drbd
install -m 755 crm-fence-peer.sh /tmp/drbd-8.3.4/dist/install//usr/lib/drbd
install -m 755 snapshot-resync-target-lvm.sh /tmp/drbd-8.3.4/dist/install//usr/lib/drbd
install -m 755 notify.sh /tmp/drbd-8.3.4/dist/install//usr/lib/drbd
( set -e ; cd /tmp/drbd-8.3.4/dist/install//usr/lib/drbd ;\
        ln -sf crm-fence-peer.sh crm-unfence-peer.sh ;\
        ln -sf snapshot-resync-target-lvm.sh unsnapshot-resync-target-lvm.sh ;\
        ln -sf notify.sh notify-split-brain.sh ;\
        ln -sf notify.sh notify-io-error.sh ;\
        ln -sf notify.sh notify-pri-on-incon-degr.sh ;\
        ln -sf notify.sh notify-pri-lost.sh ;\
        ln -sf notify.sh notify-pri-lost-after-sb.sh ;\
        ln -sf notify.sh notify-emergency-reboot.sh ;\
        ln -sf notify.sh notify-emergency-shutdown.sh ;\
        ln -sf notify.sh notify-out-of-sync.sh; )
mkdir -p /tmp/drbd-8.3.4/dist/install//etc/xen/scripts
install -m 755 block-drbd /tmp/drbd-8.3.4/dist/install//etc/xen/scripts
mkdir -p /tmp/drbd-8.3.4/dist/install//etc/udev/rules.d
install -d /tmp/drbd-8.3.4/dist/install//usr/sbin
# strip .pl on install,
# at some point we might reimplement similar functionality in non-perl
install -m 755 drbd-overview.pl /tmp/drbd-8.3.4/dist/install//usr/sbin/drbd-overview
mkdir -p /tmp/drbd-8.3.4/dist/install//usr/share/cluster
install -m 755 drbd.sh.rhcs /tmp/drbd-8.3.4/dist/install//usr/share/cluster/drbd.sh
install -m 644 drbd.metadata.rhcs  /tmp/drbd-8.3.4/dist/install//usr/share/cluster/drbd.metadat a

Don't forget to run update-rc.d or chkconfig
disable=.disabled ; \
        v=$(udevadm version 2>/dev/null) || \
        v=$(rpm -q --qf '%{VERSION}' udev 2>/dev/null) || \
        v=$(dpkg-query -W -f '${Version}' udev 2>/dev/null); \
        v=${v##*.} ; v=${v%%-*} ; v=${v#0} ; \
        if [ -n "$DRBD_ENABLE_UDEV" ] ; then \
                disable="" ; \
        else case "$v" in \
```

```
        "") :;; *[!0-9]*) :;; *) \
                if [ "$v" -ge 85 ]; then \
                        disable=""; \
                fi ;; \
        esac; fi ; \
        install -m 644 drbd.rules  /tmp/drbd-8.3.4/dist/install//etc/udev/rules.d/65-drbd.rules $disable
make[2]: Leaving directory `/tmp/drbd-8.3.4/dist/BUILD/drbd-8.3.4/scripts'
make[2]: Entering directory `/tmp/drbd-8.3.4/dist/BUILD/drbd-8.3.4/documentation'
set -e; for f in drbdsetup.8 drbd.conf.5 drbd.8 drbdadm.8 drbddisk.8 drbdmeta.8 ; do \
                s=${f##*.}; \
                install -v -D -m 644 $f /tmp/drbd-8.3.4/dist/install//usr/share/man/man$s/$f ; \
        done
install: creating directory `/tmp/drbd-8.3.4/dist/install//usr/share/man'
install: creating directory `/tmp/drbd-8.3.4/dist/install//usr/share/man/man8'
`drbdsetup.8' ->  `/tmp/drbd-8.3.4/dist/install//usr/share/man/man8/drbdsetup. 8'
install: creating directory `/tmp/drbd-8.3.4/dist/install//usr/share/man/man5'
`drbd.conf.5' ->  `/tmp/drbd-8.3.4/dist/install//usr/share/man/man5/drbd.conf. 5'
`drbd.8' -> `/tmp/drbd-8.3.4/dist/install//usr/share/man/man8/drbd.8'
`drbdadm.8' ->  `/tmp/drbd-8.3.4/dist/install//usr/share/man/man8/drbdadm.8'
`drbddisk.8' ->  `/tmp/drbd-8.3.4/dist/install//usr/share/man/man8/drbddisk.8 '
`drbdmeta.8' ->  `/tmp/drbd-8.3.4/dist/install//usr/share/man/man8/drbdmeta.8 '
make[2]: Leaving directory `/tmp/drbd-8.3.4/dist/BUILD/drbd-8.3.4/documentation'
make[2]: Entering directory `/tmp/drbd-8.3.4/dist/BUILD/drbd-8.3.4/drbd'
install -d  /tmp/drbd-8.3.4/dist/install//lib/modules/2.6.18-164.2.1.el5 /kernel/drivers/block
install -m 644 drbd.ko  /tmp/drbd-8.3.4/dist/install//lib/modules/2.6.18-164.2.1.el5
/kernel/drivers/block
make[2]: Leaving directory `/tmp/drbd-8.3.4/dist/BUILD/drbd-8.3.4/drbd'
make[1]: Leaving directory `/tmp/drbd-8.3.4/dist/BUILD/drbd-8.3.4'
+ cd drbd
+ mv .kernel.config.gz k-config-2.6.18-164.2.1.el5.gz
+ FILELIST=/tmp/drbd-8.3.4/dist/BUILD/drbd-8.3.4/file.list
+ cd /tmp/drbd-8.3.4/dist/install
+ find etc/ -name drbd -printf '/%p\n'
+ test -e sbin/rcdrbd
+ test -e etc/bash_completion.d/drbdadm
+ test -e etc/bash_completion.d/drbdadm.sh
+ test -e usr/share/cluster/drbd.sh
+ echo /usr/share/cluster/drbd.sh
+ test -e usr/share/cluster/drbd.metadata
+ echo /usr/share/cluster/drbd.metadata
+ cat
+ /usr/lib/rpm/find-debuginfo.sh /tmp/drbd-8.3.4/dist/BUILD/drbd-8.3.4
extracting debug info from /tmp/drbd-8.3.4/dist/install/sbin/drbdadm
extracting debug info from /tmp/drbd-8.3.4/dist/install/sbin/drbdmeta
extracting debug info from /tmp/drbd-8.3.4/dist/install/sbin/drbdsetup
+ /usr/lib/rpm/redhat/brp-compress
+ /usr/lib/rpm/redhat/brp-strip-static-archive /usr/bin/strip
+ /usr/lib/rpm/redhat/brp-strip-comment-note /usr/bin/strip /usr/bin/objdump
```

```
+ /usr/lib/rpm/brp-python-bytecompile
+ /usr/lib/rpm/redhat/brp-java-repack-jars
Processing files: drbd-8.3.4-3
Executing(%doc): /bin/sh -e /var/tmp/rpm-tmp.40688
+ umask 022
+ cd /tmp/drbd-8.3.4/dist/BUILD
+ cd drbd-8.3.4
+  DOCDIR=/tmp/drbd-8.3.4/dist/install/usr/share/doc/drbd-8.3.4
+ export DOCDIR
+ rm -rf /tmp/drbd-8.3.4/dist/install/usr/share/doc/drbd-8.3.4
+ /bin/mkdir -p /tmp/drbd-8.3.4/dist/install/usr/share/doc/drbd-8.3.4
+ cp -pr scripts/drbd.conf /tmp/drbd-8.3.4/dist/install/usr/share/doc/drbd-8.3.4
+ cp -pr COPYING /tmp/drbd-8.3.4/dist/install/usr/share/doc/drbd-8.3.4
+ cp -pr README /tmp/drbd-8.3.4/dist/install/usr/share/doc/drbd-8.3.4
+ cp -pr file.list /tmp/drbd-8.3.4/dist/install/usr/share/doc/drbd-8.3.4
+ exit 0
Provides: config(drbd) = 8.3.4-3
Requires(interp): /bin/sh /bin/sh
Requires(rpmlib): rpmlib(CompressedFileNames) <= 3.0.4-1 rpmlib(PayloadFilesHavePrefix) <=
4.0-1
Requires(post): /bin/sh
Requires(preun): /bin/sh
Requires: /bin/bash /usr/bin/perl config(drbd) = 8.3.4-3 libc.so.6 libc.so.6(GLIBC_2.0)
libc.so.6(GLIBC_2.1) libc.so.6(GLIBC_2.1.1) libc.so.6(GLIBC_2.2) libc.so.6(GLIBC_2.3)
perl(strict) perl(warnings) rtld(GNU_HASH)
Processing files: drbd-km-2.6.18_164.2.1.el5-8.3.4-3
Executing(%doc): /bin/sh -e /var/tmp/rpm-tmp.40688
+ umask 022
+ cd /tmp/drbd-8.3.4/dist/BUILD
+ cd drbd-8.3.4
+  DOCDIR=/tmp/drbd-8.3.4/dist/install/usr/share/doc/drbd-km-2. 6.18_164.2.1.el5-8.3.4
+ export DOCDIR
+ rm -rf  /tmp/drbd-8.3.4/dist/install/usr/share/doc/drbd-km-2.6.18_16 4.2.1.el5-8.3.4
+ /bin/mkdir -p  /tmp/drbd-8.3.4/dist/install/usr/share/doc/drbd-km-2.6.18_16 4.2.1.el5-8.3.4
+ cp -pr drbd/k-config-2.6.18-164.2.1.el5.gz
/tmp/drbd-8.3.4/dist/install/usr/share/doc/drbd-km-2.6.18_16 4.2.1.el5-8.3.4
+ exit 0
Requires(interp): /bin/sh /bin/sh
Requires(rpmlib): rpmlib(CompressedFileNames) <= 3.0.4-1 rpmlib(PayloadFilesHavePrefix) <=
4.0-1
Requires(post): /bin/sh
Requires(postun): /bin/sh
Requires: /sbin/depmod drbd = 8.3.4 kernel
Conflicts: km_drbd drbd-kmp <= 8.3.4_3 drbd-kmod <= 8.3.4_3
Processing files: drbd-debuginfo-8.3.4-3
Requires(rpmlib): rpmlib(CompressedFileNames) <= 3.0.4-1 rpmlib(PayloadFilesHavePrefix) <=
4.0-1
Checking for unpackaged file(s): /usr/lib/rpm/check-files /tmp/drbd-8.3.4/dist/install
```

Wrote: /tmp/drbd-8.3.4/dist/RPMS/i386/drbd-8.3.4-3.i386.rpm
Wrote: /tmp/drbd-8.3.4/dist/RPMS/i386/drbd-km-2.6.18_164.2.1.el5-8. 3.4-3.i386.rpm
Wrote: /tmp/drbd-8.3.4/dist/RPMS/i386/drbd-debuginfo-8.3.4-3.i386.r pm
Executing(%clean): /bin/sh -e /var/tmp/rpm-tmp.14423
+ umask 022
+ cd /tmp/drbd-8.3.4/dist/BUILD
+ cd drbd-8.3.4
+ '[' -n /tmp/drbd-8.3.4/dist/install -a /tmp/drbd-8.3.4/dist/install '!=' / ']'
+ rm -rf /tmp/drbd-8.3.4/dist/install
+ exit 0
You have now:
-rw-r--r-- 1 root root 200642 Dec 1 09:40 dist/RPMS/i386/drbd-8.3.4-3.i386.rpm
-rw-r--r-- 1 root root   36745 Dec 1 09:40 dist/RPMS/i386/drbd-debuginfo-8.3.4-3.i386.rpm
-rw-r--r-- 1 root root 1036894 Dec 1 09:40
dist/RPMS/i386/drbd-km-2.6.18_164.2.1.el5-8.3.4-3.i386.rpm
[root@hostname drbd-8.3.4]#

Subject: Re: Building DRBD 8.3.4 against OpenVZ kernel 2.6.18-164.2.1.el5.028stab066.7
Posted by curx on Tue, 01 Dec 2009 14:27:03 GMT
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Hi,

in this OpenVZ Version, drbd is upgraded to 8.3.4 in the prebuild kernel package -> please see changelog at:

http://wiki.openvz.org/Download/kernel/rhel5/028stab066.7

Only load the drbd linux kernel module on your hardware node.

Bye,
Thorsten

Subject: Re: Building DRBD 8.3.4 against OpenVZ kernel 2.6.18-164.2.1.el5.028stab066.7
Posted by triangle on Wed, 02 Dec 2009 09:52:01 GMT
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Hmm... Is your answer really correct or do I get something wrong?

The OpenVZ kernel 2.6.18-164.2.1.el5.028stab066.7 contains - as expected - only the kernel module of DRBD:

```
[root@hostname ~]# rpm --query --filesbypkg ovzkernel-2.6.18-164.2.1.el5.028stab066.7 | grep drbd
ovzkernel               /lib/modules/2.6.18-164.2.1.el5.028stab066.7/kernel/drivers/ block/drbd
ovzkernel               /lib/modules/2.6.18-164.2.1.el5.028stab066.7/kernel/drivers/ block/drbd/drbd.ko
[root@hostname ~]#
```

The DRBD userland tools (such as /sbin/drbdadm) are obviously provided by another package. When running the OpenVZ kernel 2.6.18-128.1.1.el5.028stab062.3 (which contains DRBD 8.3.0 kernel code)
I am using the package drbd-8.3.0-3 to get these tools:

```
[root@hostname ~]# rpm --query --filesbypkg drbd-8.3.0-3
drbd                    /etc/drbd.conf
drbd                    /etc/ha.d/resource.d/drbddisk
drbd                    /etc/ha.d/resource.d/drbdupper
drbd                    /etc/rc.d/init.d/drbd
drbd                    /etc/xen/scripts/block-drbd
drbd                    /sbin/drbdadm
drbd                    /sbin/drbdmeta
drbd                    /sbin/drbdsetup
drbd                    /usr/lib/drbd/notify-out-of-sync.sh
drbd                    /usr/lib/drbd/notify-split-brain.sh
drbd                    /usr/lib/drbd/notify.sh
drbd                    /usr/lib/drbd/outdate-peer.sh
drbd                    /usr/lib/drbd/snapshot-resync-target-lvm.sh
drbd                    /usr/lib/drbd/unsnapshot-resync-target-lvm.sh
drbd                    /usr/sbin/drbd-overview.pl
drbd                    /usr/share/cluster/drbd.metadata
drbd                    /usr/share/cluster/drbd.sh
drbd                    /usr/share/doc/drbd-8.3.0
drbd                    /usr/share/doc/drbd-8.3.0/COPYING
drbd                    /usr/share/doc/drbd-8.3.0/README
drbd                    /usr/share/doc/drbd-8.3.0/drbd.conf
drbd                    /usr/share/doc/drbd-8.3.0/file.list
drbd                    /usr/share/man/man5/drbd.conf.5.gz
drbd                    /usr/share/man/man8/drbd.8.gz
drbd                    /usr/share/man/man8/drbdadm.8.gz
drbd                    /usr/share/man/man8/drbddisk.8.gz
drbd                    /usr/share/man/man8/drbdmeta.8.gz
drbd                    /usr/share/man/man8/drbdsetup.8.gz
drbd                    /var/lib/drbd
[root@hostname ~]#
```

BTW: The RPM package drbd-8.3.0-3 built fine against the OpenVZ kernel 2.6.18-128.1.1.el5.028stab062.3.

Please correct me if I am misunderstanding something. Otherwise, I am still looking for some advise related to my original question.

Thanks, David

Subject: Re: Building DRBD 8.3.4 against OpenVZ kernel 2.6.18-164.2.1.el5.028stab066.7
Posted by jleg on Wed, 02 Dec 2009 12:00:33 GMT
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[quote title=triangle wrote on Wed, 02 December 2009
BTW: The RPM package drbd-8.3.0-3 built fine against the OpenVZ kernel 2.6.18-128.1.1.el5.028stab062.3.

Please correct me if I am misunderstanding something. Otherwise, I am still looking for some advise related to my original question.

Thanks, David[/quote]

Hm, didn't check drbd 8.3.4, but for the *current* version 8.3.6 there's the define "HAVE_LINUX_BYTEORDER_SWABB_H" which drbd should set properly:
- obviously your build fails because of missing "linux/swab.h"
- either your drbd does not find it there (because it's missing, or more likely it is "linux/byteorder/swap.h"), and/or drbd fails to set HAVE_LINUX_BYTEORDER_SWABB_H correctly

The latter probably could be fixed by editing drbd_config.h manually...

jleg

Subject: Re: Building DRBD 8.3.4 against OpenVZ kernel 2.6.18-164.2.1.el5.028stab066.7
Posted by curx on Wed, 02 Dec 2009 13:11:17 GMT
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reHi,

OpenVZ ver. // drbd ver.

028stab066.7 // 8.3.4
028stab064.8 // 8.3.0
028stab064.7 // -"-
028stab064.4 // -"-
028stab062.3 // -"-
(...)

> The DRBD userland tools (such as /sbin/drbdadm) are obviously
> provided by another package. When running the OpenVZ kernel
> 2.6.18-128.1.1.el5.028stab062.3 (which contains DRBD 8.3.0
> kernel code)

=> you need to install the drbd usertools v8.3.4 with OpenVZ Linux kernel 028stab066.7

Bye,
Thorsten
