
Subject: Re: DL380 G2 - CCISS
Posted by [gramsa49](#) on Mon, 19 Feb 2007 19:12:38 GMT
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Ok, I almost have the test kernel installed, but I screwed up and missed the network driver when installing the stock 2.6.18 kernel; so I can't get the openvz test kernel onto the box very easily.

It looks like upgrading the kernel to 2.6.18.6 fixed the errors. I am guessing there was a driver update to the cciss driver that corrected some type of problem. The cciss driver in the 2.6.9 kernel is 2.6.10; the cciss driver in the 2.6.18.6 kernel is 3.6.10. I am going to back out at this point and install the latest stable openvz kernel and build a binary rpm for the 3.6.x cciss driver and see if that corrects the issue. I will post the results when I get them.

Here is an account of the process:

0-Install CentOS 4.4

1-Run yum update

```
=====
====
Package                Arch      Version      Repository    Size
=====
====
Installing:
kernel                  i686      2.6.9-42.0.8.EL update      11 M
kernel-devel            i686      2.6.9-42.0.8.EL update      3.7 M
kernel-smp              i686      2.6.9-42.0.8.EL update      10 M
Updating:
bind-libs               i386      20:9.2.4-24.EL4 update      565 k
bind-utils              i386      20:9.2.4-24.EL4 update      141 k
dbus                    i386      0.22-12.EL.8 update      455 k
dbus-devel              i386      0.22-12.EL.8 update      228 k
dbus-glib               i386      0.22-12.EL.8 update       38 k
elinks                  i386      0.9.2-3.3 update      839 k
fetchmail               i386      6.2.5-6.el4.5 update      572 k
gnupg                   i386      1.2.6-8 update       1.6 M
gtk2                    i386      2.4.13-22 update       4.3 M
gzip                    i386      1.3.3-16.rhel4 update       88 k
hwdata                  noarch    0.146.23.EL-1 update      337 k
info                    i386      4.7-5.el4.2 update      145 k
iproute                 i386      2.6.9-3.EL4.3.centos4 update    932 k
kernel-hugemem-devel    i686      2.6.9-42.0.8.EL update      3.7 M
kernel-smp-devel        i686      2.6.9-42.0.8.EL update      3.7 M
nss_idap                i386      226-17 update       1.0 M
openssh                 i386      3.9p1-8.RHEL4.17.1 update    317 k
openssh-clients         i386      3.9p1-8.RHEL4.17.1 update    341 k
openssh-server          i386      3.9p1-8.RHEL4.17.1 update    208 k
openssl                 i686      0.9.7a-43.14 update       1.1 M
```

openssl-devel	i586	0.9.7a-43.14	update	1.6 M
python	i386	2.3.4-14.3	update	4.8 M
python-devel	i386	2.3.4-14.3	update	1.4 M
qt	i386	1:3.3.3-10.RHEL4	update	2.9 M
sysreport	noarch	1.3.15-8	update	18 k
tar	i386	1.14-12.RHEL4	update	334 k
texinfo	i386	4.7-5.el4.2	update	743 k
tzdata	noarch	2006m-3.el4	update	444 k
up2date	i386	4.4.69-25.centos4.7	update	1.8 M
xorg-x11-Mesa-libGL	i386	6.8.2-1.EL.13.37.5	update	379 k
xorg-x11-font-utils	i386	6.8.2-1.EL.13.37.5	update	302 k
xorg-x11-libs	i386	6.8.2-1.EL.13.37.5	update	2.7 M
xorg-x11-xfs	i386	6.8.2-1.EL.13.37.5	update	315 k

Transaction Summary

```
=====
====
```

```
Install    3 Package(s)
Update    33 Package(s)
Remove     0 Package(s)
Total download size: 63 M
```

2-Disable unneeded services

```
[root@vz1 ~]# chkconfig rpcidmapd off
[root@vz1 ~]# chkconfig pcmcia off
[root@vz1 ~]# chkconfig xinetd off
[root@vz1 ~]# chkconfig netfs off
[root@vz1 ~]# chkconfig apmd off
[root@vz1 ~]# chkconfig portmap off
[root@vz1 ~]# chkconfig nfslock off
[root@vz1 ~]# chkconfig isdn off
[root@vz1 ~]# chkconfig rpcgssd off
[root@vz1 ~]# chkconfig openibd off
[root@vz1 ~]# chkconfig gpm off
[root@vz1 ~]# chkconfig mdmonitor off
[root@vz1 ~]# chkconfig xfs off
```

3-Network settings

a-configure bonding

* update /etc/modprobe.conf, add the following lines

```
alias bond0 bonding
```

```
options bond0 mode=0 miimon=100
```

* create /etc/sysconfig/network-scripts/ifcfg-bond0

```
[root@vz1 ~]# cat ifcfg-bond0
```

```
DEVICE=bond0
```

```
IPADDR=10.107.208.150
```

```
NETWORK=10.107.208.0
```

```

NETMASK=255.255.255.0
BROADCAST=10.107.108.255
USERCTL=no
BOOTPROTO=dhcp
ONBOOT=yes
* update /etc/sysconfig/network-scripts/ifcfg-eth0
[root@vz1 ~]# cat ifcfg-eth0
DEVICE=eth0
USERCTL=no
ONBOOT=yes
MASTER=bond0
BOOTPROTO=none
SLAVE=yes
* update /etc/sysconfig/network-scripts/ifcfg-eth1
[root@vz1 ~]# cat ifcfg-eth1
DEVICE=eth1
USERCTL=no
MASTER=bond0
ONBOOT=yes
BOOTPROTO=none
SLAVE=yes

```

4-Server Settings

a-ntp

```

[root@vz1 ~]# yum install ntp
[root@vz1 ~]# chkconfig --level 2345 ntpd on
<update /etc/ntp.conf to use our server>
server 10.107.208.1

```

b-sendmail

```

[root@vz1 ~]# diff -u /etc/aliases.orig /etc/aliases
--- /etc/aliases.orig  2007-02-xxx
+++ /etc/aliases       2007-02-xxx
@@ -97,4 +97,4 @@
decode:          root

```

Person who should get root's mail

```

-#root:      marc
+root:      xxxx
[root@vz1 ~]# newaliases

```

5-Install openvz

a-kernel

```

[root@vz1 ~]# cd /etc/yum.repos.d
[root@vz1 ~]# wget http://download.openvz.org/openvz.repo
<disable stable and enable devel repo>
--- openvz.repo.original  2007-02-19 12:43:11.000000000 -0500
+++ openvz.repo 2007-02-19 12:43:21.000000000 -0500
@@ -2,7 +2,7 @@

```

```
name=OpenVZ stable kernel and utilities
#baseurl=http://download.openvz.org/current/
mirrorlist=http://download.openvz.org/mirrors-current
-enabled=1
+enabled=0
gpgcheck=1
gpgkey=http://download.openvz.org/RPM-GPG-Key-OpenVZ
```

```
@ @ -10,7 +10,7 @ @
```

```
name=OpenVZ development kernel
#baseurl=http://download.openvz.org/kernel/devel/current/
mirrorlist=http://download.openvz.org/kernel/mirrors-devel
-enabled=0
+enabled=1
gpgcheck=1
gpgkey=http://download.openvz.org/RPM-GPG-Key-OpenVZ
[root@vz1 ~]# rpm --import http://download.openvz.org/RPM-GPG-Key-OpenVZ
<build latest kernel - non-openvz, upgrade to openvz test yeilds an error>
[root@vz1 src]# yum install kernel-smp
Setting up Install Process
Setting up repositories
Reading repository metadata in from local files
Parsing package install arguments
Resolving Dependencies
--> Populating transaction set with selected packages. Please wait.
---> Package kernel-smp.i686 0:2.6.18-ovz028test015.1 set to be installed
--> Running transaction check
--> Processing Conflict: klsctp-tools conflicts kernel >= 2.6.10
--> Finished Dependency Resolution
Error: klsctp-tools conflicts with kernel >= 2.6.10
[root@vz1 ~]# cd /usr/src
[root@vz1 src]# wget http://www.kernel.org/pub/linux/kernel/v2.6/linux-2.6.18.6.tar.gz
[root@vz1 src]# tar -xvzf linux-2.6.18.6.tar.gz
[root@vz1 src]# cd linux-2.6.18.6
[root@vz1 linux-2.6.18.6]# cp ../kernels/2.6.9-42.0.8.EL-smp-i686/.config .
[root@vz1 src]# make oldconfig
<accepted defaults for all new options>
[root@vz1 src]# make all
[root@vz1 src]# make modules_install
[root@vz1 src]# make install
<update grub to use new kernel as default>
[root@vz1 src]# reboot
<let's go ahead and try engaging the tape drive and see if the problem stops>
It does, good.
```
