Subject: RPM DB corruption when using vzrpm/vzyum
Posted by seanfulton on Sat, 04 Aug 2007 23:37:10 GMT
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I posted this as a bug but thought I would post here as well. About two months ago I tried setting up OpenVZ with a shared NFS drive as /vz. One of the problems I ran into was data corruption in the form of trying to install packages using vzrpm that was corrupting the rpm database within the VE.

I was told at the time that there was a kernel bug affecting NFS and that was likely the cause.

I scrapped the idea of using NFS and am now using a local drive. I am using the latest OpenVZ kernel on RHEL 5, latest utilities, etc. I reinstalled all of the VZ software, and when trying to add programs to the VE using vzrpm and again, it's corrupting the RPM database.

I'm wondering now if there's a problem with vzrpm or if there's another kernel bug. Any insight or help would be appreciated.

sean

Subject: Re: RPM DB corruption when using vzrpm/vzyum
Posted by rickb on Sun, 05 Aug 2007 17:50:58 GMT
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Hi Sean, post the complete steps necessary to duplicate the problem, so that it can be understood and investigated more effectively.

ie,
1) deploy centos4 VE
2) run commands XX,YY,ZZ
3) note error AA in log BB

Rick

Subject: Re: RPM DB corruption when using vzrpm/vzyum
Posted by seanfulton on Sun, 05 Aug 2007 18:37:02 GMT
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Install 2.6.18-8.1.8.el5.028stab039.1 kernel on RHEL 5
vzctl create 6004 --ostemplate=centos-4

vzctl start 6004
vzrpm 6004 -qa --outputs a list of installed RPMS
for a in "perl-Filter-1.30-6 perl-HTML-Parser-3.35-6 erl-libwww-perl-5.79-5 perl-5.8.5-36.RHEL4
perl-DBI-1.40-8
perl-DBD-MySQL-2.9004-3.1 perl-HTML-Tagset-3.03-30 perl-URI-1.30-4 "
 # OR REALLY *ANY RPMS*
do
vzrpm 6004 -Uvh $a
done
RPMS all install correctly.

vzrpm 6004 -qa
Outputs a partial list of RPMs followed by:
error: db4 error(-30988) from dbcursor->c_get: DB_PAGE_NOTFOUND: Requested page not found

Please note that I just tested this on RHEL 4.4 with the 2.6.18-8.el5.028stab031.1 kernel and get no errors.

sean

Subject: Re: RPM DB corruption when using vzrpm/vzyum
Posted by rickb on Sun, 05 Aug 2007 18:43:55 GMT
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strange, as vzrpm is just a wrapper on rpm. is it really any rpms that cause this problem? if you use vzrpm with a single simple rpm, does the problem occur?

Rick

Subject: Re: RPM DB corruption when using vzrpm/vzyum
Posted by seanfulton on Sun, 05 Aug 2007 18:48:34 GMT
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Yes, it happens with different RPMs. At first I thought it was a corrupt RPM, but it's very reproducable.

This is the same behavior I had previously with the 31 kernel running over NFS and was told it (DB corruption on a DB4 database) was likely a known kernel issue running over NFS. Given that I am no longer using NFS, and the problem can be reproduced on the 39 kernel but not 31, I'm wondering if there isn't something else going on.

sean

Subject: Re: RPM DB corruption when using vzrpm/vzyum
Posted by dcox on Mon, 10 Dec 2007 02:26:28 GMT
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I have always experienced the same problems with OpenVZ using CentOS 4 or 5.

Currently with 2.6.18-53.el5.028stab051.1PAE and a local ext3 file system.

Initially I thought the best fix was: rpm --rebuilddb
But in fact that has often removed the record of many packages.

A fix which now seems to work is: rm -f /var/lib/rpm/__db*
Which I need to do almost every time I use vzyum.

Subject: Re: RPM DB corruption when using vzrpm/vzyum
Posted by jthomps on Mon, 10 Dec 2007 04:33:23 GMT
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dcox wrote on Sun, 09 December 2007 20:26I have always experienced the same problems with OpenVZ using CentOS 4 or 5.
I noticed the same thing for all VE's I create using CentOS 5. I have noticed that yum will fail after a VE is started, unless I run a RPM command first in the VE. After that, all vzyum commands seem to work just fine.

For example:

vzctl start 100
vzyum 100 list updates (fails)
vzctl exec 100 rpm -qa (works)
vzyum 100 list updates (works)

Very strange, but at least the workaround seems to be 100% reliable.

Subject: Re: RPM DB corruption when using vzrpm/vzyum
Posted by Sambo on Sun, 13 Jan 2008 05:42:22 GMT
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Could it be something to do with the fact that rpm on Centos 5 is version 4.4.2 and rpm inside the Centos 4 VE is 4.3.3 ? Or else some other incompatability (does rpm use bdb or something?).

I have the same problem and it's pretty annoying.