Subject: vzyum database recovery -- was vzpkgcache fail Posted by dranch on Fri, 19 Oct 2007 18:28:53 GMT

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Hello Everyone,

Per the Russian forum, another user had an issue with "vzyum" where it would fail. I've noticed the following and I was curious if there is a fix for this issue.

What was the solution to this problem (the answer isn't in English)? I've noticed that vzyum will always stop working but if I go into each VE and locally run "yum update", things get cleaned up for vzyum to run again without issue for a while more. But, a day later, the issue comes back.

Below I show that:

- 1. "vzyum update" fails
- 2. I enter the VE, locally run "yum update"
- 3. I exit the VE, rerun "vzyum 100 update" and it works (for some period of time

1. "vzyum 100 update" fails

```
# vzyum 100 install am-utils
```

exec /usr/share/vzyum/bin/yum -c /vz/template/centos/5/i386/config/yum.conf --installroot

/vz/root/100 --vps=100 install am-utils

rpmdb: unable to initialize mutex: Invalid argument

rpmdb: PANIC: Invalid argument

rpmdb: PANIC: DB_RUNRECOVERY: Fatal error, run database recovery

error: db4 error(-30977) from dbenv->open: DB_RUNRECOVERY: Fatal error, run database

recovery

error: cannot open Packages index using db3 - (-30977)

error: cannot open Packages database in /vz/root/100/var/lib/rpm

Traceback (most recent call last):

File "/usr/share/vzyum/bin/yum", line 28, in?

yummain.main(sys.argv[1:])

File "/usr/share/vzyum/yum-cli/yummain.py", line 75, in main

base.getOptionsConfig(args)

File "/usr/share/vzyum/yum-cli/cli.py", line 172, in getOptionsConfig

self.doConfigSetup(fn=opts.conffile, root=root, vps=opts.vps)

File "/usr/share/vzyum/lib/yum/__init__.py", line 82, in doConfigSetup

self.conf = config.yumconf(configfile=fn, root=root, vps=vps)

File "/usr/share/vzyum/lib/yum/config.py", line 271, in __init__

self.yumvar['releasever'] = self._getsysver()

File "/usr/share/vzyum/lib/yum/config.py", line 384, in _getsysver

idx = ts.dbMatch('provides', self.getConfigOption('distroverpkg'))

TypeError: rpmdb open failed

2. Enter VE and run "yum update"

/usr/sbin/vzctl enter 100

entered into VE 100

dolly-centos5-A:/# yum update Loading "installonlyn" plugin

Setting up Update Process

Setting up repositories

Reading repository metadata in from local files No Packages marked for Update/Obsoletion

3. Exit the VE and again run "vzyum 100 update" and it works for some period of time

exit

logout

exited from VE 100

dolly-centos5-openvz:/etc# vzyum 100 install am-utils

 $exec\ /usr/share/vzyum/bin/yum\ -c\ /vz/template/centos/5/i386/config/yum.conf\ --installroot$

/vz/root/100 --vps=100 install am-utils

Setting up Install Process

Setting up repositories

centos5-vz-addons 100% |============== | 951 B 00:00 centos5-updates-released 100% |============== | 951 B 00:00 centos5-base 100% |============= | 1.1 kB 00:00

Reading repository metadata in from local files

Parsing package install arguments

Nothing to do"

Subject: Re: vzyum database recovery -- was vzpkgcache fail Posted by dranch on Mon, 22 Oct 2007 16:08:03 GMT

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As an update, it seems this issue comes up when the VPS is rebooted. As a work around, I've added the following to each VPS:

/etc/rc.d/rc.local

--

```
yum check-update > /dev/null
```

This cleans the issue up but it's only a hack that works around the a root problem.

Subject: Re: vzyum database recovery -- was vzpkgcache fail Posted by steve on Sun, 09 Mar 2008 06:54:56 GMT

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I'm getting this problem too after just having upgraded some packages on the host node. The fact that this can be corrected by entering the VPS and running any rpm command makes it look suspiciously like a bug. Any rpm database inside a VPS is somehow left in an inconsistent state. Of course, this makes vzyum unusable. Does vzyum need an upgrade in order to handle this?

Run: vzyum 139 install wget

Yields:

exec /usr/share/vzyum/bin/yum -c /vz/template/centos/5/i386/config/yum.conf --installroot

/vz/root/139 --vps=139 install wget

rpmdb: unable to initialize mutex: Invalid argument

rpmdb: PANIC: Invalid argument

rpmdb: PANIC: DB_RUNRECOVERY: Fatal error, run database recovery

error: db4 error(-30977) from dbenv->open: DB_RUNRECOVERY: Fatal error, run database

recovery

error: cannot open Packages index using db3 - (-30977)

error: cannot open Packages database in /vz/root/139/var/lib/rpm

Traceback (most recent call last):

File "/usr/share/vzyum/bin/yum", line 28, in?

yummain.main(sys.argv[1:])

File "/usr/share/vzyum/yum-cli/yummain.py", line 75, in main

base.getOptionsConfig(args)

File "/usr/share/vzyum/yum-cli/cli.py", line 172, in getOptionsConfig

self.doConfigSetup(fn=opts.conffile, root=root, vps=opts.vps)

File "/usr/share/vzyum/lib/yum/__init__.py", line 82, in doConfigSetup

self.conf = config.yumconf(configfile=fn, root=root, vps=vps)

File "/usr/share/vzyum/lib/yum/config.py", line 271, in __init__

self.yumvar['releasever'] = self._getsysver()

File "/usr/share/vzyum/lib/yum/config.py", line 384, in _getsysver

idx = ts.dbMatch('provides', self.getConfigOption('distroverpkg'))

TypeError: rpmdb open failed

Subject: Re: vzyum database recovery -- was vzpkgcache fail Posted by tranky on Wed, 30 Jul 2008 12:53:31 GMT

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I've experienced the same behavior and found that a simple "rpm -qa" ran inside the VE (either via 'vzctl exec' or entering the VE and running it inside) solves the issue

HTH

edit: unfortunately, this fix isn't permanent and the issue reappears as soon as the VE is restarted as mentioned above

At least this workaround doesn't need the installation of yum inside the VE

Subject: Re: vzyum database recovery -- was vzpkgcache fail Posted by bchapman on Fri. 01 Aug 2008 19:42:00 GMT View Forum Message <> Reply to Message

This works perfectly. Thanks for the workaround.

Subject: Re: vzyum database recovery -- was vzpkgcache fail Posted by bchapman on Fri, 01 Aug 2008 20:05:36 GMT

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Here is some further information on this issue.

When booted, the virtual machine does not have the /var/lib/rpm/__db.00{1,2,3} files. This causes the vzyum issue regarding the database.

Running "rpm -ga" inside the virtual machine recreates the /var/lib/rpm/ db.00{1,2,3} files. It looks like the files are deleted on start up; doing a "shutdown now -h" from inside the machine does not delete them. This leaves the machine "mounted". Running "vzctl umount VE ID" doesn't remove them either. However, running "vzctl start VE_ID" deletes the db files.

Not sure where to go next with this...

[EDIT]

Here is a small enhancement to the previous workaround - edit /usr/bin/vzyum so that it runs the 'rpm -ga' command prior to running yum.

Add the following to the next to last line of /usr/bin/vzyum:

\$VZCTL exec \$VEID rpm --quiet -qa

After the change the last four lines of vzyum should look like this:

log4 PYTHONPATH=\$PYTHONPATH log3 exec \$YUM \$YUM_ARGS \$USER_ARGS \$VZCTL exec \$VEID rpm --quiet -qa exec \$YUM \$YUM_ARGS \$USER_ARGS

This will rebuild the db files as in the earlier post.

Ben

Subject: Re: vzyum database recovery -- was vzpkgcache fail Posted by n00b_admin on Sun, 09 Nov 2008 22:50:14 GMT View Forum Message <> Reply to Message

So, this is a bug?

It will be fixed, it is reported somewhere?

I don't think using workarounds as permanent solutions is THE solution.

Some admins please?

For example, i'm using the contrib template of centos 5 minimal and the issue is not fixed by running "rpm -qa" inside VE or by "vzctl <ve_id> rpm -qa"

Subject: Re: vzyum database recovery -- was vzpkgcache fail Posted by n00b_admin on Sun, 09 Nov 2008 23:51:37 GMT View Forum Message <> Reply to Message

I apologize for my frustration in my previous post.

It seems i discovered the problem.

In my setup i have two vz storage locations on two separate drives.

It appears that the fix in this post (http://forum.openvz.org/index.php?t=msg&goto=30830&) does not work in my case since the ve_root dir for my particular ve is in another location than the one in vz.conf

In my setup a require two locations for the private and root dirs and the vz.conf file allows only one location.

As a quick fix i have made a copy of the vzyum wrapper in vzyum2 and hardcoded the second location inside vzyum2.

In this way i can run vzyum for VE's in the default location and vzyum2 for VE's in the second

location as the paths differ.

Maybe an official solution would be to make the functions file read the private and root paths from the VE config file since vzctl supports creating VE's in different locations than the default one.