Subject: OpenVZ + Reiserfs
Posted by FilipeCifali on Fri, 24 Aug 2012 21:26:36 GMT
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Sorry, I searched a little in this forum, in the wiki and in google for a "HOW TO OPENVZ KERNEL + ReiserFS" and didn't found a way to do it.

How can I add it? Since the kernel is different, I tried to download the package but it's only the utilities:

As CT0 I'm running CentOS 6.3(final) fully updated

As CT1 I'm running Gentoo Base System release 2.0.2 (not fully updated)

mount: unknown filesystem type 'reiserfs'

What's the right way to add support for reiserfs?

TY in advice!

Subject: Re: OpenVZ + Reiserfs
Posted by Ales on Sat, 25 Aug 2012 04:47:42 GMT
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You need a ReiserFS kernel module. I believe you'll find one in elrepo (kmod-reiserfs) repository.

You might need to rebuild it for the OpenVZ kernel, I can't say... Neither do I have any experience in using ReiserFS with OpenVZ. Please report back with your experiences.

Subject: Re: OpenVZ + Reiserfs
Posted by FilipeCifali on Sat, 25 Aug 2012 13:27:50 GMT
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TY for your reply, unfortunately, to add reiserfs support to a redhat kernel I would need to compile the kernel from source, cause in CentOS I got kmod-reiserfs and I'm able to mkfs.reiserfs and even mount it, but inside Gentoo(that only uses the kernel) he does not have support(that's why I would need to compile).

I already work w/ reiserfs both but w/o OpenVZ as another layer.

I'll try to modprobe the module, but I don't thing it's gonna work, guess I'll have to compile from source.

Subject: Re: OpenVZ + Reiserfs
Posted by Ales on Sat, 25 Aug 2012 16:59:54 GMT
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If your hardware node (CT0) runs CentOS and you have ReiserFS kernel module inserted & working in the OpenVZ RHEL kernel, than that's all you need, as far as the kernel goes.

I don't think recompiling the kernel with ReiserFS included (as opposed to being inserted as a module) will make any difference.

Also, trying to insert the module from within your Gentoo CT1 can't possibly work, as OpenVZ doesn't work like that. If you have the module inserted from within CT0, than it's inserted for all the CTs. All modules / kernel changes are done on CT0 and are seen from all virtual machines, as long as OpenVZ itself supports the functionality (not all features/devices are virtualized).

How are you trying to use ReiserFS from within the CT1? What errors do you see?

Subject: Re: OpenVZ + Reiserfs
Posted by FilipeCifali on Sat, 25 Aug 2012 21:04:33 GMT
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I'm just trying to mount, I can mount in CentOS (CT0) but I cannot mount in Gentoo (CT1), Gentoo can't mount saying:

mount: unknown filesystem type 'reiserfs'

But CentOS can.

Subject: Re: OpenVZ + Reiserfs
Posted by Ales on Mon, 27 Aug 2012 18:21:48 GMT
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Yes, but what are you trying to mount? Are you following any of these: wiki.openvz.org/Mounting_filesystems, did you give your container access to a pyhsical block device, or...?

Subject: Re: OpenVZ + Reiserfs
Posted by FilipeCifali on Mon, 27 Aug 2012 19:19:02 GMT
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I'm sorry I didn't provided enough information:

I've made this far:

CT0:

NODE=101

vzctl create $NODE --ostemplate gentoo-openvz-stage3-amd64-20110520

set some variables

vzctl set $NODE --hostname mysql01-openvz.localhost.net --save
vzctl set $NODE --devnodes sdb1:rw --save
vzctl set $NODE --netif_add eth0 --save

I'm delivering a full partitioned reiserfs disk:

[root@openvz-test ~]# fdisk -l /dev/sdb

Disk /dev/sdb: 146.2 GB, 146163105792 bytes
255 heads, 63 sectors/track, 17769 cylinders
Units = cylinders of 16065 * 512 = 8225280 bytes
Sector size (logical/physical): 512 bytes / 512 bytes
I/O size (minimum/optimal): 512 bytes / 512 bytes
Disk identifier: 0x80d176b5

Device	Boot	Start	End	Blocks	Id	System
/dev/sdb1		1	17769	142729461	83	Linux

At CT1 I got this:

mysql01-openvz / # mount /dev/sdb1 /var/lib/mysql/
mount: unknown filesystem type 'reiserfs'

But at CT0:

[root@openvz-test ~]# mount /dev/sdb1 test/
[root@openvz-test ~]# mount
/dev/sdb1 on /root/test type reiserfs (rw)

Subject: Re: OpenVZ + Reiserfs
Posted by Ales on Tue, 28 Aug 2012 17:40:32 GMT
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I was hoping you answer would provide some clue on how to solve this, but everything looks fine to me...

What I'd do at this point is:

- check on CT1 if /proc/filesystems contains reiserfs (I'm guessing that it doesn't)
- try with CT2 using CentOS 6 as OS, for better comparison.

If both CT1 and CT2 behave the same, than I'd assume it's a deeper issue and that resierfs and openvz don't play nicely together. You might have more luck catching the attention of one of the openvz developers on the mailing list for further help. They seem to frequent there more.

I'm sure you're also aware of bind mounts as an option, I'm just mentioning it here for the sake of completeness or if anyone else is reading the thread.

Subject: Re: OpenVZ + Reiserfs
Posted by FilipeCifali on Tue, 28 Aug 2012 21:52:22 GMT
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I double check /proc/filesystem, they even show different support, tomorrow I'll try a CentOS(CT0) / CentOS(CT1) install. I like Gentoo for low resources consumption and that he compiles everything for my machine(when I set the right flags).

I'm aware of bind_mounts, but they don't really offer the solution I want. I want to deliver the disk for the user w/ hot-swap support in his system.

If even this does not happen, still, I must thank you for trying to help!

Subject: Re: OpenVZ + Reiserfs
Posted by FilipeCifali on Mon, 03 Sep 2012 16:05:27 GMT
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Just an update(busy last week):

I can't, even in a CentOS(CT0) / CentOS(CT3) cenario use reiserfs inside cannot be done:

openvz-test(CT0)

[root@openvz-test ~]# uname -a
Linux openvz-test.localhost.net 2.6.32-042stab059.7 #1 SMP Tue Jul 24 19:12:01 MSK 2012 x86_64 x86_64 x86_64 GNU/Linux
[root@openvz-test ~]# cat /proc/filesystems
nodev sysfs
nodev rootfs
nodev bdev
nodev proc
nodev cgroup
nodev cpuset
nodev tmpfs
nodev devtmpfs

nodev binfmt_misc
nodev debugfs
nodev securityfs
nodev sockfs
nodev usbfs
nodev pipefs
nodev anon_inodefs
nodev inotifyfs
nodev devpts
nodev ramfs
nodev pram
nodev hugetlbfs
 iso9660
nodev pstore
nodev mqueue
 ext4
nodev rpc_pipefs
nodev nfs
nodev nfs4
nodev delayfs
nodev simfs

mysql03-openvz(CT3)

[root@mysql03-openvz /]# cat /proc/filesystems
nodev cgroup
nodev devpts
nodev mqueue
 ext4
nodev nfs
nodev nfs4
nodev delayfs
nodev devtmpfs
nodev sysfs
nodev proc
nodev tmpfs
nodev binfmt_misc
[root@mysql03-openvz /]# uname -a
Linux mysql03-openvz.localhost.net 2.6.32-042stab059.7 #1 SMP Tue Jul 24 19:12:01 MSK 2012 x86_64 x86_64 x86_64 GNU/Linux

I'll try them.

Subject: Re: OpenVZ + Reiserfs
Posted by FilipeCifali on Thu, 06 Sep 2012 20:08:46 GMT

I know you guys may not share the same vision that I have, but ReiserFS is a MUST for high I/O | low files scenario that I have.

I posted there but I didn't got any answer on that yet...