Subject: OpenVz + DRBD
Posted by Jorge Cabello on Fri, 20 Jul 2007 12:23:49 GMT
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Hi,

Im trying to use DRBD inside an OpenVz Virtual Node but I can't access the kernel module from inside the node.

I tried to follow wiki howto (HA cluster with DRBD and Heartbeat) but when I start drbd inside the node I get the next error:

stone101# /etc/init.d/drbd start
Starting DRBD resources: No response from the DRBD driver! Is the module loaded?
[d0 No response from the DRBD driver! Is the module loaded?
State change failed: (0)unknown error.

cmd /sbin/drbdsetup /dev/drbd0 disk /dev/sda7 /dev/sda7 flexible --set-defaults --create-device --on-io-error=detach failed!

The kernel module is installed in the kernel as lsmod shows (result at the end of the email). Im using a kernel 2.6.20 with OpenVz patch: patch-ovz007.1-combined.gz

Im probably missing something, as I'm just starting to use these tools, but I can't find what it is.

Does someone know what it could be?

Thanks
Jorge

These are the results of some commands:
Inside Hardware Node
---
stone# lsmod
Module   Size Used by
drbd   194372 0
simfs   5348 1
vzdquota   40148 1 [permanent]
firmware_class   9984 0
vznetdev   16960 3
vzethdev   11656 0
vzmon   33032 3 vznetdev,vzethdev
vzdev   3588 6 vzdquota,vznetdev,vzethdev,vzmon

Inside Virtual Node
---
stone101# lsmod
Module Size Used by

stone101# cat /proc/drbd
version: 8.0.0 (api:86/proto:86)
SVN Revision: 2713 build by root@dhcp0-176.sw.ru, 2007-03-05 16:06:51
0: cs:Unconfigured

DRBD Tools were compiled from source code. First entry of ChangeLog
file:
8.0.0 (api:86/proto:86)
---
* No effecitve changes to rc2.

Subject: Re: OpenVz + DRBD
Posted by Daniel Pittman on Sat, 21 Jul 2007 10:42:58 GMT
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Jorge Cabello <jorge@aspl.es> writes:

> Im trying to use DRBD inside an OpenVz Virtual Node but I can't access
> the kernel module from inside the node.

[...]

> Im probably missing something, as I'm just starting to use these
> tools, but I can't find what it is.

You didn't mention using the vzctl tool to grant read/write permissions
to the DRBD device anywhere in your notes. See the manual page for the
'devnodes' or 'devices' arguments.

Regards,
Daniel
--
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Subject: Re: OpenVz + DRBD
Posted by Jorge Cabello on Wed, 17 Oct 2007 11:31:50 GMT
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Hi,

Sorry for the delay in the answer but I have been working in other proyects.

I granted permissions to the virtual node using:
HN# vzctl set 202 --devices b:147:0:rw

If I dont load manually the kernel module in the hardware node when I start drbd in the virtual node I get the following:

Starting DRBD resources: Can not load the drbd module.

But if I start the kernel module manually before starting drbd there is a kernel Ooops (kernel log in attachment) and the virtual node reports:

Starting DRBD resources: No response from the DRBD driver! Is the module loaded?
Error code 10943 unknown.
You should updated the drbd userland tools.

With the same tools version (8.0.6) drbd works properly inside hardware node.

Anyone has been able to run drbd inside a virtual node?

> Jorge Cabello <jorge@aspl.es> writes:
>
> > Im trying to use DRBD inside an OpenVz Virtual Node but I can't access
> > the kernel module from inside the node.
>
> [...]
>
> > Im probably missing something, as I'm just starting to use these
> > tools, but I can't find what it is.
>
> You didn't mention using the vzctl tool to grant read/write permissions
> to the DRBD device anywhere in your notes. See the manual page for the
> 'devnodes' or 'devices' arguments.
>
> Regards,
> Daniel

stone kernel: CR2: 0000000000000016
Oct 17 13:13:56 stone kernel: Unable to handle kernel NULL pointer dereference at 0000000000000016 RIP:
Oct 17 13:13:56 stone kernel: [<ffffffff88026eed>] :drbd:drbd_nl_disk_conf+0x1dd/0x760
Oct 17 13:13:56 stone kernel: PGD 32789067 PUD 30abb067 PMD 0
Oct 17 13:13:56 stone kernel: Oops: 0000 [1]
Oct 17 13:13:56 stone kernel: CPU: 0
Oct 17 13:13:56 stone kernel: Modules linked in: drbd simfs vznetdev vzethdev vzdquota vzmon vzdev bridge llc forcedeth
Oct 17 13:13:56 stone kernel: Pid: 161, comm: cqueue/0 Not tainted 2.6.20-ovz007 #2
Oct 17 13:13:56 stone kernel: RIP: 0060:[<ffffffff88026eed>] [<ffffffff88026eed>] :drbd:drbd_nl_disk_conf+0x1dd/0x760
Oct 17 13:13:56 stone kernel: RSP: 0068:ffff810037c05d90 EFLAGS: 00010282
Oct 17 13:13:56 stone kernel: RAX: fffffffffffffffe RBX: ffff810036be4000 RCX: 0000000000000282
Oct 17 13:13:56 stone kernel: RDX: fffffffffffffffe RSI: ffffffff80281f00 RDI: ffff810030f96080
Oct 17 13:13:56 stone kernel: RBP: 0000000000000068 R08: 0000000000000001 R09: 0000000000000000
Oct 17 13:13:56 stone kernel: R10: 0000000000000000 R11: 00000000000000aa R12: ffff8100316abe24
Oct 17 13:13:56 stone kernel: R13: ffff8100379459c0 R14: ffff8100379459c0 R15: ffff8100354edb54
Oct 17 13:13:56 stone kernel: FS: 00002abf425ab6d0(0000) GS:ffffffff80597000(0000) knlGS:0000000000000000
Oct 17 13:13:56 stone kernel: CS: 0060 DS: 0018 ES: 0018 CR0: 000000008005003b
Oct 17 13:13:56 stone kernel: CR2: 0000000000000016 CR3: 0000000030533000 CR4: 00000000000006e0
Oct 17 13:13:56 stone kernel: Process cqueue/0 (pid: 161, veid=0, threadinfo ffff810037c04000, task ffff810037e55000)
Oct 17 13:13:56 stone kernel: Stack: 0000000000000000 0000000000000000 ffff8100316abe24 0000000000000030
Oct 17 13:13:56 stone kernel: ffff8100354edb40 ffff8100316abe24 ffff8100316abe10 ffff810036be4000
Oct 17 13:13:56 stone kernel: ffffffff8803e010 ffffffff880286cd ffff810037c05e60 ffff810031bca568
Oct 17 13:13:56 stone kernel: Call Trace:
Oct 17 13:13:56 stone kernel: [<ffffffff880286cd>] :drbd:drbd_connector_callback+0xfd/0x1a0
Oct 17 13:13:56 stone kernel: [<ffffffff80385ddc>] cn_queue_wrapper+0x1c/0x50
Oct 17 13:13:56 stone kernel: [<ffffffff80385dc0>] cn_queue_wrapper+0x0/0x50
Oct 17 13:13:56 stone kernel: [<ffffffff8023d504>] run_workqueue+0x94/0x130
Oct 17 13:13:56 stone kernel: [<ffffffff8023d6f8>] worker_thread+0x158/0x1a0
Oct 17 13:13:56 stone kernel: [<ffffffff80225e10>] default_wake_function+0x0/0x10
Oct 17 13:13:56 stone kernel: [<ffffffff80225e10>] default_wake_function+0x0/0x10
Oct 17 13:13:56 stone kernel: [<ffffffff8023d5a0>] worker_thread+0x0/0x1a0
Oct 17 13:13:56 stone kernel: [<ffffffff8023d5a0>] worker_thread+0x0/0x1a0
Oct 17 13:13:56 stone kernel: [<ffffffff802413ff>] kthread+0x8f/0xd0
Oct 17 13:13:56 stone kernel: [<ffffffff8020a428>] child_rip+0xa/0x12
Oct 17 13:13:56 stone kernel: [<ffffffff80241370>] kthread+0x0/0xd0
Oct 17 13:13:56 stone kernel: [<ffffffff8020a41e>] child_rip+0x0/0x12
Oct 17 13:13:56 stone kernel:

Oct 17 13:13:56 stone kernel:
Oct 17 13:13:56 stone kernel: Code: 48 8b 40 18 bd 6b 00 00 00 4c 8b 60 08 41 0f b7 84 24 b2 00
Oct 17 13:13:56 stone kernel: RIP [<ffffffff88026eed>] :drbd:drbd_nl_disk_conf+0x1dd/0x760
Oct 17 13:13:56 stone kernel: RSP <ffff810037c05d90>
Oct 17 13:13:56 stone kernel: CR2: 0000000000000016

File Attachments

1) oops.txt, downloaded 638 times