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Subject: Processes in D state when vzctl chkpnt suspend  
Posted by [Stoyan Stoyanov](#) on Tue, 20 Mar 2012 16:44:19 GMT  
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Hi,

I have an issue when trying vzbackups that happens randomly.  
The issue is with the vzctl chkpnt veid --suspend .

what happens is , all ve's process goes into D states.  
no logs on dmesg or anywhere on the node system in the container itself.  
As you know these processes are uninterruptible (un-killable).  
I'm not sure what exactly happens, so please help me.  
vzserver doesn't use nfs or something like that, but fs is on lvms.  
the kernel version is: Linux vz2 2.6.32-5-openvz-amd64 #1 SMP Mon Oct  
3 05:12:50 UTC 2011 x86\_64 GNU/Linux

here are the ps axu output from the node, only for the freezed  
container processes.:

```
204 root    6688 0.0  0.0  8352  636 ?      Ds  Mar12  0:01
init [2]
204 root    7296 0.0  0.0 119692 1292 ?      Dl  Mar12  0:01 /
usr/sbin/rsyslogd -c4
204 root    7366 0.0  0.0  82588 3316 ?      Ds  Mar12  0:12 /
usr/sbin/apache2 -k start
204 root    7384 0.0  0.0  20900  712 ?      Ds  Mar12  0:01 /
usr/sbin/cron
204 root    7577 0.0  0.0  37160 2096 ?      Ds  Mar12  0:00 /
usr/lib/postfix/master
204 101      7587 0.0  0.0  39380 2224 ?      D   Mar12  0:00
qmgr -l -t fifo -u
204 root    7622 0.0  0.0  49168  960 ?      Ds  Mar12  0:00 /
usr/sbin/sshd
204 101      8899 0.0  0.0  39224 2132 ?      D   Mar17  0:00
pickup -l -t fifo -u -c
204 www-data 25719 0.0  0.0  82728 4044 ?      D   Mar17  0:00 /
usr/sbin/apache2 -k start
204 www-data 26052 0.0  0.0  82728 4032 ?      D   Mar17  0:00 /
usr/sbin/apache2 -k start
204 www-data 26894 0.0  0.0  82728 3900 ?      D   Mar17  0:00 /
usr/sbin/apache2 -k start
204 www-data 27409 0.0  0.0  82728 3860 ?      D   Mar17  0:00 /
usr/sbin/apache2 -k start
204 www-data 27542 0.0  0.0  82728 3832 ?      D   Mar17  0:00 /
usr/sbin/apache2 -k start
204 www-data 27905 99.6 0.0  82728 3824 ?      R   Mar17 5182:40 /
usr/sbin/apache2 -k start
204 www-data 28113 0.0  0.0  82728 3768 ?      D   Mar17  0:00 /
```

```
usr/sbin/apache2 -k start
204 www-data 28191 0.0 0.0 82728 3760 ?    D   Mar17  0:00 /
usr/sbin/apache2 -k start
204 www-data 28347 0.0 0.0 82728 3708 ?    D   Mar17  0:00 /
usr/sbin/apache2 -k start
204 www-data 28720 0.0 0.0 82728 3628 ?    D   Mar17  0:00 /
usr/sbin/apache2 -k start
204 www-data 28750 0.0 0.0 82728 3596 ?    D   Mar17  0:00 /
usr/sbin/apache2 -k start
204 www-data 28849 0.0 0.0 82728 3560 ?    D   Mar17  0:00 /
usr/sbin/apache2 -k start
204 root    28956 99.3 0.0 10220 520 ?      Rs  Mar17 5163:04 /
usr/sbin/vzctl chkpnt 204 --suspend
```

as you see all of them are in D state.

here is the stack trace for the vzctl chkpnt process

```
[714486.771855] Pid: 28956, comm: vzctl Not tainted 2.6.32-5-openvz-
amd64 #1 feoktistov X9SCL/X9SCM
[714486.771857] RIP: 0010:[<ffffffff810484cf>] [<ffffffff810484cf>]
wait_task_inactive+0x41/0xfb
[714486.771861] RSP: 0018:ffff8803578f1cf8 EFLAGS: 00000246
[714486.771863] RAX: 0000000000000001 RBX: 800000000000015d RCX:
ffff8803578f1c78
[714486.771864] RDX: ffff880011a56940 RSI: 0000000000000296 RDI:
0000000000000292
[714486.771866] RBP: ffff880421c2e800 R08: ffff8803578f0000 R09:
ffff88043a160780
[714486.771868] R10: 0000000010000000 R11: ffff880011b96940 R12:
ffff880011a56940
[714486.771869] R13: 0000000000000000 R14: 0000000000016940 R15:
ffff88043d280800
[714486.771871] FS: 00007f11a6e7e700(0000) GS:ffff880011b80000(0000)
knIGS:0000000000000000
[714486.771873] CS: 0010 DS: 0000 ES: 0000 CR0: 000000008005003b
[714486.771875] CR2: 00007f9c12391ae0 CR3: 000000041f983000 CR4:
00000000000406e0
[714486.771877] DR0: 0000000000000000 DR1: 0000000000000000 DR2:
0000000000000000
[714486.771878] DR3: 0000000000000000 DR6: 00000000ffff0ff0 DR7:
0000000000000400
[714486.771880] Call Trace:
[714486.771881] <NMI> <<EOE>> [<ffffffffffa03defb6>] ? cpt_vps_suspend
+0xede/0x138a [vzcpt]
[714486.771887] [<ffffffffffa03dca7f>] ? cpt_ioctl+0x5e5/0xcd2 [vzcpt]
[714486.771889] [<ffffffffffa03dc49a>] ? cpt_ioctl+0x0/0xcd2 [vzcpt]
[714486.771891] [<ffffffffff81134cde>] ? proc_reg_unlocked_ioctl
```

+0xa2/0xc2

```
[714486.771894] [<ffffffff810fd096>] ? vfs_ioctl+0x21/0x6c
[714486.771896] [<ffffffff810fd5d3>] ? do_vfs_ioctl+0x47c/0x4cb
[714486.771899] [<ffffffff810f1aa4>] ? vfs_write+0xcd/0x102
[714486.771901] [<ffffffff810fd65f>] ? sys_ioctl+0x3d/0x5c
[714486.771903] [<ffffffff81010c12>] ? system_call_fastpath+0x16/0x1b
[714486.771904] Pid: 28956, comm: vzctl Not tainted 2.6.32-5-openvz-
amd64 #1
[714486.771905] Call Trace:
[714486.771906] <NMI> [<ffffffff8100fdda>] ? show_regs+0x3c/0x5d
[714486.771909] [<ffffffff812ec738>] ? nmi_watchdog_tick+0xb7/0x1aa
[714486.771912] [<ffffffff812ebe83>] ? do_nmi+0xa5/0x264
[714486.771914] [<ffffffff812eb920>] ? nmi+0x20/0x30
[714486.771916] [<ffffffff810484cf>] ? wait_task_inactive+0x41/0xfb
[714486.771917] <<EOE>> [<ffffffa03defb6>] ? cpt_vps_suspend+0xede/
0x138a [vzcpt]
[714486.771921] [<ffffffa03dca7f>] ? cpt_ioctl+0x5e5/0xcd2 [vzcpt]
[714486.771924] [<ffffffa03dc49a>] ? cpt_ioctl+0x0/0xcd2 [vzcpt]
[714486.771926] [<ffffffff81134cde>] ? proc_reg_unlocked_ioctl
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[714486.771928] [<ffffffff810fd096>] ? vfs_ioctl+0x21/0x6c
[714486.771931] [<ffffffff810fd5d3>] ? do_vfs_ioctl+0x47c/0x4cb
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```

I guess I know what's happen, but I don't know how to fix and I want to hear some suggestions.

Is there anyone else that suffer of such issue ?

Do you have any idea what happens and if I can provide some other useful info , please write.

Stoyan Stoyanov  
Core System Administrator

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Subject: Re: Processes in D state when vzctl chkpnt suspend  
Posted by [Andrew Vagin](#) on Wed, 21 Mar 2012 12:21:12 GMT  
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On 03/20/2012 08:44 PM, Stoyan Stoyanov wrote:

> Hi,  
>  
> I have an issue when trying vzbackups that happens randomly.  
> The issue is with the vzctl chkpnt veid --suspend .  
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> what happens is , all ve's process goes into D states.  
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> 3 05:12:50 UTC 2011 x86\_64 GNU/Linux  
I recommend you to use our rhel6-2.6.32 kernel.  
<http://download.openvz.org/kernel/branches/rhel6-2.6.32/>  
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> 204 root 7577 0.0 0.0 37160 2096 ? Ds Mar12 0:00  
> /usr/lib/postfix/master  
> 204 101 7587 0.0 0.0 39380 2224 ? D Mar12 0:00  
> qmgr -l -t fifo -u  
> 204 root 7622 0.0 0.0 49168 960 ? Ds Mar12 0:00  
> /usr/sbin/sshd  
> 204 101 8899 0.0 0.0 39224 2132 ? D Mar17 0:00  
> pickup -l -t fifo -u -c  
> 204 www-data 25719 0.0 0.0 82728 4044 ? D Mar17 0:00  
> /usr/sbin/apache2 -k start  
> 204 www-data 26052 0.0 0.0 82728 4032 ? D Mar17 0:00

```

> /usr/sbin/apache2 -k start
> 204 www-data 26894 0.0 0.0 82728 3900 ?    D   Mar17  0:00
> /usr/sbin/apache2 -k start
> 204 www-data 27409 0.0 0.0 82728 3860 ?    D   Mar17  0:00
> /usr/sbin/apache2 -k start
> 204 www-data 27542 0.0 0.0 82728 3832 ?    D   Mar17  0:00
> /usr/sbin/apache2 -k start
> 204 www-data 27905 99.6 0.0 82728 3824 ?    R   Mar17 5182:40
> /usr/sbin/apache2 -k start

```

This process is in RUNNING state... Could you say what it's doing.

```

strace -fp 3824 -o log.s
cat /proc/3824/stack

```

```

> 204 www-data 28113 0.0 0.0 82728 3768 ?    D   Mar17  0:00
> /usr/sbin/apache2 -k start
> 204 www-data 28191 0.0 0.0 82728 3760 ?    D   Mar17  0:00
> /usr/sbin/apache2 -k start
> 204 www-data 28347 0.0 0.0 82728 3708 ?    D   Mar17  0:00
> /usr/sbin/apache2 -k start
> 204 www-data 28720 0.0 0.0 82728 3628 ?    D   Mar17  0:00
> /usr/sbin/apache2 -k start
> 204 www-data 28750 0.0 0.0 82728 3596 ?    D   Mar17  0:00
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Not all and it's a problem.

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> ffff88043a160780

```

```

> [714486.771868] R10: 0000000100000000 R11: ffff880011b96940 R12:
> ffff880011a56940
> [714486.771869] R13: 0000000000000000 R14: 0000000000016940 R15:
> ffff88043d280800
> [714486.771871] FS: 00007f11a6e7e700(0000) GS:ffff880011b80000(0000)
> knlGS:0000000000000000
> [714486.771873] CS: 0010 DS: 0000 ES: 0000 CR0: 000000008005003b
> [714486.771875] CR2: 00007f9c12391ae0 CR3: 000000041f983000 CR4:
> 000000000000406e0
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> 00000000000000400
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> [714486.771924] [<ffffffffffa03dc49a>] ? cpt_ioctl+0x0/0xcd2 [vzcpt]
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> [714486.771928] [<ffffffffff810fd096>] ? vfs_ioctl+0x21/0x6c
> [714486.771931] [<ffffffffff810fd5d3>] ? do_vfs_ioctl+0x47c/0x4cb
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> [714486.771935] [<ffffffffff810fd65f>] ? sys_ioctl+0x3d/0x5c
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>  
>  
> Stoyan Stoyanov  
> Core System Administrator  
>  
>  
>

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Subject: Re: Processes in D state when vzctl chkpnt suspend  
Posted by [Stoyan Stoyanov](#) on Wed, 21 Mar 2012 13:21:18 GMT

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Yes, you are right, all excepts the pids: 27905 and 28956, which are in R,Rs .

With strace on these pids, there WAS nothing the process are doing, and I mean really nothing -nothing to stdout nothing to log (with log option), but I was strace'd them without -f options , yes this is my bad.. I said WAS, because server is in production, and after a couple of hours debug I was forced to restart it, to make CT up and running, so now is too late and can not show you strace and cat /proc/./stack :(

Please, if you have something in mind that can be the reason for this, tell me. Also if I can provide you with some useful info (without providing debug info, because the problem is gone after restart) please let me know.

On Mar 21, 2012, at 2:21 PM, Andrew Vagin wrote:

> On 03/20/2012 08:44 PM, Stoyan Stoyanov wrote:  
>> Hi,  
>>  
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```

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> I recommend you to use our rhel6-2.6.32 kernel.
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>> /usr/sbin/sshd
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>> /usr/sbin/apache2 -k start
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>> /usr/sbin/apache2 -k start
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> This process is in RUNNING state... Could you say what it's doing.
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```

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>> /usr/sbin/apache2 -k start
>> 204 www-data 28720 0.0 0.0 82728 3628 ?      D   Mar17  0:00
>> /usr/sbin/apache2 -k start
>> 204 www-data 28750 0.0 0.0 82728 3596 ?      D   Mar17  0:00
>> /usr/sbin/apache2 -k start
>> 204 www-data 28849 0.0 0.0 82728 3560 ?      D   Mar17  0:00
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>> ffff88043a160780
>> [714486.771868] R10: 0000000100000000 R11: ffff880011b96940 R12:
>> ffff880011a56940
>> [714486.771869] R13: 0000000000000000 R14: 0000000000016940 R15:
>> ffff88043d280800
>> [714486.771871] FS: 00007f11a6e7e700(0000) GS:ffff880011b80000(0000)
>> knlGS:0000000000000000
>> [714486.771873] CS: 0010 DS: 0000 ES: 0000 CR0: 000000008005003b
>> [714486.771875] CR2: 00007f9c12391ae0 CR3: 0000000041f98300 CR4:
>> 000000000000406e0
>> [714486.771877] DR0: 0000000000000000 DR1: 0000000000000000 DR2:
>> 0000000000000000
>> [714486.771878] DR3: 0000000000000000 DR6: 00000000ffff0ff0 DR7:
>> 00000000000000400
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```

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>> [714486.771894] [<ffffff810fd096>] ? vfs_ioctl+0x21/0x6c
>> [714486.771896] [<ffffff810fd5d3>] ? do_vfs_ioctl+0x47c/0x4cb
>> [714486.771899] [<ffffff810f1aa4>] ? vfs_write+0xcd/0x102
>> [714486.771901] [<ffffff810fd65f>] ? sys_ioctl+0x3d/0x5c
>> [714486.771903] [<ffffff81010c12>] ? system_call_fastpath
>> +0x16/0x1b
>> [714486.771904] Pid: 28956, comm: vzctl Not tainted
>> 2.6.32-5-openvz-amd64 #1
>> [714486.771905] Call Trace:
>> [714486.771906] <NMI> [<ffffff8100fdda>] ? show_regs+0x3c/0x5d
>> [714486.771909] [<ffffff812ec738>] ? nmi_watchdog_tick+0xb7/0x1aa
>> [714486.771912] [<ffffff812ebe83>] ? do_nmi+0xa5/0x264
>> [714486.771914] [<ffffff812eb920>] ? nmi+0x20/0x30
>> [714486.771916] [<ffffff810484cf>] ? wait_task_inactive+0x41/0xfb
>> [714486.771917] <<EOE>> [<fffffffa03defb6>] ?
>> cpt_vps_suspend+0xede/0x138a [vzcpt]
>> [714486.771921] [<fffffffa03dca7f>] ? cpt_ioctl+0x5e5/0xcd2 [vzcpt]
>> [714486.771924] [<fffffffa03dc49a>] ? cpt_ioctl+0x0/0xcd2 [vzcpt]
>> [714486.771926] [<ffffff81134cde>] ? proc_reg_unlocked_ioctl
>> +0xa2/0xc2
>> [714486.771928] [<ffffff810fd096>] ? vfs_ioctl+0x21/0x6c
>> [714486.771931] [<ffffff810fd5d3>] ? do_vfs_ioctl+0x47c/0x4cb
>> [714486.771933] [<ffffff810f1aa4>] ? vfs_write+0xcd/0x102
>> [714486.771935] [<ffffff810fd65f>] ? sys_ioctl+0x3d/0x5c
>> [714486.771937] [<ffffff81010c12>] ? system_call_fastpath
>> +0x16/0x1b
>>
>> I guess I know what's happen, but I don't know how to fix and I want
>> to hear some suggestions.
>>
>> Is there anyone else that suffer of such issue ?
>> Do you have any idea what happens and if I can provide some other
>> useful info , please write.
>>
>>
>>
>>
>>
>> Stoyan Stoyanov
>> Core System Administrator
>>
>>

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Core System Administrator

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#### File Attachments

1) [maxtelecom-logo.gif](#), downloaded 351 times

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Subject: Re: Processes in D state when vzctl chkpnt suspend  
Posted by [Angel Bosch Mora](#) on Wed, 21 Mar 2012 13:34:54 GMT  
[View Forum Message](#) <> [Reply to Message](#)

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----- Missatge original -----

> Yes, you are right, all excepts the pids: 27905 and 28956, which are  
> in R,Rs .  
> With strace on these pids, there WAS nothing the process are doing,  
> and I mean really nothing -nothing to stdout nothing to log (with log  
> option), but I was strace'd them without -f options , yes this is my  
> bad.. I said WAS, because server is in production, and after a couple  
> of hours debug I was forced to restart it, to make CT up and running,  
> so now is too late and can not show you strace and cat /proc/./stack  
> :(  
>  
> Please, if you have something in mind that can be the reason for this,  
> tell me. Also if I can provide you with some useful info (without  
> providing debug info, because the problem is gone after restart)  
> please let me know.  
>

we were having high loads on our HN and the only thing we changed was loading fuse module.  
we needed some fuse mounts inside some vms, but fuse really screwed up our servers.

worst of all is that only way to remove 'D' processes is by rebooting :(

abosch

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