
Subject: Checkpoint bug

Posted by [dagr](#) on Thu, 07 Dec 2006 10:17:34 GMT

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Again i get strange results with checkpointing

2.6.9-023stab032 SMP - RHEL4 x86 - vzctl version 3.0.13

////////////////////////////////////

[dagr@ws-ca dagr]\$ sudo vzctl start 555

Starting VE ...

VE is mounted

Adding IP address(es): 10.0.0.55

Setting CPU units: 1000

Set hostname: 10.0.0.55

VE start in progress...

[dagr@ws-ca dagr]\$ sudo vzctl chkpnt 555 --suspend

Setting up checkpoint...

 suspend...

 get context...

Checkpointing completed succesfully

[dagr@ws-ca dagr]\$ sudo vzctl chkpnt 555 --dump --dumpfile ./img

Setting up checkpoint...

 join context..

 dump...

Checkpointing completed succesfully

[dagr@ws-ca dagr]\$ sudo vzctl status 555

VEID 555 exist mounted running

[dagr@ws-ca dagr]\$ sudo vzctl chkpnt 555 --kill

Killing...

[dagr@ws-ca dagr]\$ sudo vzctl status 555

VEID 555 exist mounted down

[dagr@ws-ca dagr]\$ sudo vzctl restore 555 --undump --dumpfile ./img

Restoring VE ...

Starting VE ...

VE is mounted

 undump...

Adding IP address(es): 10.0.0.55

Setting CPU units: 1000

 get context...

VE start in progress...

Restoring completed succesfully

[dagr@ws-ca dagr]\$ sudo vzctl enter 555

enter into VE 555 failed

[dagr@ws-ca dagr]\$ sudo vzctl stop 555

Stopping VE ...

Unable to stop VE: operation timed out

//////////////////////////////////// //

After this there is no way to stop VPS without rebooting HN. Also /etc/init.d/vz stop is not able to stop it and just continuously tries, hanging the whole server, so only hard reset helps !!
After reboot vps is ok to run, start, stop, enter, until next try to dump and restore - i checked, its "restore" section which makes it hang.

//////////////////////////////////// //

Before that i tried to restore dump on another hn - and got this

```
Adding IP address(es): 10.0.0.55
Setting CPU units: 1000
Error: undump failed: No such file or directory
Restoring failed:
rst_file: -2 20496
rst_files: -2
make_baby: -2
rst_clone_children
VE start failed
Stopping VE ...
VE was stopped
VE is unmounted
```

////////////////////////////////////

Same error if i do all on same hn, but don't kill after making dump, but resume and then stop.
Also i noticed that after killing - it doesn't unmount VPS, tried also unmount after killing - didn't help.

////////////////////////////////////

At least tell me - if there's any way to stop it without restarting the HN ?

Subject: Re: Checkpoint bug
Posted by [dagr](#) on Thu, 07 Dec 2006 11:25:36 GMT
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Tried also vzctl 3.0.13 - and 2.6.18-ovz028test005.1-smp

restore on same HN

```
[dagr@ssw2-ca utils]$ sudo vzctl restore 10121 --undump --dumpfile ./img
Restoring VE ...
Starting VE ...
VE is unmounted
VE is mounted
```

undump...

Adding IP address(es): 10.1.2.1

Setting CPU units: 1000

//////////

Then its just hangs and server hangs as well , (on kernel 2.6.9 it hanged only during reboot) , so again hard reset. On console see this

```
[<c02889cf>] unblank_screen+0xf/0x20
[<c023cb16>] bust_spinlocks+0x36/0x50
[<c010f43a>] smp_nmi_callback+0x6a/0x90
[<c010546c>] do_nmi+0x7c/0xa0
[<c0103d12>] nmi_stack_correct+0x1d/0x22
[<c011007b>] do_boot_cpu+0x16b/0x2e0
[<c0494c8d>] __read_lock_failed+0x5/0x18
[<c0496e9b>] _read_lock+0xb/0x10
[<c0132f7d>] send_group_sig_info+0xd/0x40
[<c012f894>] lock_timer_base+0x24/0x50
[<c0129d0e>] it_real_fn+0x2e/0x80
[<c0129ce0>] it_real_fn+0x0/0x80
[<c0140d1a>] hrtimer_run_queues+0x8a/0x110
[<c0130cd7>] run_timer_softirq+0x27/0x1e0
[<c012b322>] __do_softirq+0xa2/0x150
[<c0105ce5>] do_softirq+0x55/0xb0
=====
[<c0130b8a>] update_process_times+0x4a/0xc0
[<c011122e>] smp_apic_timer_interrupt+0x8e/0xb0
[<c0100e6c>] default_idle+0x2c/0x60
[<c0103bbb>] apic_timer_interrupt+0x1f/0x24
[<c0100e6c>] default_idle+0x2c/0x60
[<c0100f32>] cpu_idle+0x72/0x90
```

Subject: Re: Checkpoint bug

Posted by [dagr](#) on Thu, 07 Dec 2006 12:06:24 GMT

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Ok - i found out with first kernel . It wasnt bug . I just forgot to make restore resume.

But restore with kernel 2.6.18 - is a REAL BUG.

Subject: Re: Checkpoint bug

Posted by [dim](#) on Thu, 07 Dec 2006 12:23:13 GMT

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Please, try to replicate with 028test007 kernel and file it, if exists. Note, checkpointing is still buggy indeed in 2.6.18 branch.

Subject: Re: Checkpoint bug
Posted by [dagr](#) on Thu, 07 Dec 2006 14:23:20 GMT
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File it ? What do you mean? I gave all output.

Subject: Re: Checkpoint bug
Posted by [dagr](#) on Thu, 07 Dec 2006 14:25:35 GMT
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Also - is there any way to use CPT with mounts. When i start vps with any kind of mount (bind or loop,ro) , its not possible even suspend -
[dagr@ws-ca mnt]\$ sudo vzctl chkpnt php4_base --suspend
Setting up checkpoint...
suspend...
Can not suspend VE: Invalid argument
unsupported fs type ext3

Subject: Re: Checkpoint bug
Posted by [dim](#) on Thu, 07 Dec 2006 14:27:56 GMT
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I mean create new bug at <http://bugzilla.openvz.org>, where specify kernel version and post full oops messages from dmesg output in it.

Subject: Re: Checkpoint bug
Posted by [dagr](#) on Thu, 07 Dec 2006 14:36:05 GMT
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did it
So what about checkpointing VPS with mounts ?

Subject: Re: Checkpoint bug

Posted by [Andrey Mirkin](#) on Thu, 07 Dec 2006 15:40:18 GMT

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Support for bind mounts in CPT already implemented.

Right now you can use latest development kernel (2.6.18-007).

New stable version (2.6.9 kernel) with bind mounts support in CPT will be released soon.

Subject: Re: Checkpoint bug

Posted by [dagr](#) on Thu, 07 Dec 2006 16:18:28 GMT

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Cool , at first look it works ok with test7 kernel , will test more.
