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Subject: [Solved] Mlgrated Ubuntu VPS take 2 minutes to shut down  
Posted by [tanteauguri](#) on Wed, 26 Nov 2008 17:07:24 GMT

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I am migrating a lot of Ubuntu VE from Vserver to OpenVZ. I could solve all problems except one: the machines wont shut down. A vzctl VEID stop kills all daemons except the init process - after 2 Minutes it seemes the init will recieve a kill -9. A reboot inside the VE in not successful, init hangs forever.

In this forum I found, that it is likely that this behavior has to do with udev. Does someone know the difference to the templates, wich work fine? What changes do I have to make to shut down clean the init process of the VE?

Thx

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Subject: Re: Mlgrated Ubuntu VPS take 2 minutes to shut down  
Posted by [maratrus](#) on Mon, 01 Dec 2008 12:27:24 GMT

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Hello,

what kernel do you use? What vzctl version do you use? What osteamplate (the exact version) your VE is based on? Do you have any special settings inside problem VE (anything is mounted inside VE or something ...)?

Is it possible to reproduce the problem with osteamplates from <http://download.openvz.org/> ?

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Subject: Re: Mlgrated Ubuntu VPS take 2 minutes to shut down  
Posted by [tanteauguri](#) on Mon, 01 Dec 2008 13:24:27 GMT

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Thank you for the reply. I do not use a template. The templates are working. I draged a VE from vserver to openzv. Because they are about 300 servers I have no other chance. vzctl is able to shutdown the init process in the template VE's, so there must have been modifications made in the guest OS, which I was not able to find.

The versions:

Linux openvz01 2.6.24-21-openvz #1 SMP Wed Oct 22 02:50:53 UTC 2008 i686 GNU/Linux

root@openvz01:~# dpkg -l | grep vzctl

ii vzctl 3.0.22-5ubuntu1 server virtualization solution - control too

root@openvz01:~#

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Subject: Re: Migrated Ubuntu VPS take 2 minutes to shut down

Posted by [maratrus](#) on Mon, 01 Dec 2008 15:27:24 GMT

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And what about special settings? Any mounted filesystems inside VE?

If you have a suspicion that udev may cause this issue it's worth to increase udev loglevel (udevcontrol utility can do it).

What state does init process have? Are you able to "strace" init process?

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Subject: Re: Migrated Ubuntu VPS take 2 minutes to shut down

Posted by [tanteauguri](#) on Mon, 01 Dec 2008 17:54:18 GMT

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This is what the mounts look like:

```
root@ppdev:/# mount
simfs on / type simfs (rw,relatime)
devpts on /dev/pts type devpts (rw,relatime)
tmpfs on /dev/shm type tmpfs (rw,relatime)
proc on /proc type proc (rw,relatime)
sysfs on /sys type sysfs (rw,relatime)
tmpfs on /var/run type tmpfs (rw,relatime)
tmpfs on /var/lock type tmpfs (rw,relatime)
```

I try to stop inside the VE ppdev:

```
root@ppdev:/# udevcontrol log_priority=debug
root@ppdev:/# halt
root@ppdev:/# got signal 15
                exited from VE 103
```

All processes seem to be killed quick. From now on only one process ist running for ever:

```
~root@openvz01:~#vzlist 103
  VEID  NPROC STATUS IP_ADDR  HOSTNAME
  103   1 running 193.80.225.57 ppdev
root@openvz01:~#
```

It's the init process:

```
root  15617 0.0 0.0  1568  536 ?    Ss  Nov27  0:01 init [0]
```

Trying to kill:

```
root@openvz01:~# kill -9 15617
```

Now the VE is still running without any procs =8-|

```
root@openvz01:~# vzlist 103
```

```
VEID   NPROC STATUS IP_ADDR   HOSTNAME
```

```
103    - mounted 193.80.225.57 ppdev
```

Trying to stop from outside:

```
root@openvz01:~# vzctl stop 103
```

Unable to stop: VE is not running

There was no output in the syslog until I startet again

```
Dec 1 18:07:20 ppdev shutdown[11782]: shutting down for system halt
```

```
Dec 1 18:07:21 ppdev init: Switching to runlevel: 0
```

```
Dec 1 18:07:26 ppdev exiting on signal 15
```

```
Dec 1 18:19:44 ppdev syslogd 1.4.1#17ubuntu7.1: restart.
```

```
Dec 1 18:19:45 ppdev init: no more processes left in this runlevel
```

I also tried to unmount all bevor stopping the VE - no success

How can I trace when nothing ist running? I am not sure, if there is a possibility to trace init, because its the first porcess.

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Subject: Re: Mlgrated Ubuntu VPS take 2 minutes to shut down

Posted by [maratrus](#) on Mon, 01 Dec 2008 18:32:52 GMT

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Hello,

Quote:

I try to stop inside the VE ppdev:

```
root@ppdev:~# udevcontrol log_priority=debug
```

```
root@ppdev:~# halt
```

```
root@ppdev:~# got signal 15
```

```
    exited from VE 103
```

And does "vzctl stop 103" command work from HN? Could you possibly try it?

Actually "reboot" inside VE is a little bit tricky operation,

Read <http://download.openvz.org/doc/OpenVZ-Users-Guide.pdf> "Rebooting Virtual Private Server, page 71"

Quote:

It's the init process:

```
root  15617 0.0 0.0 1568 536 ?    Ss  Nov27  0:01 init [0]
```

Ok, it's in a sleeping state. Seems nobody "sends" init a signal.  
As far as I understand reboot (sys\_reboot) syscall must be invoked (not "kill" from inside the VE because it's impossible to kill init from inside the VE moreover it's impossible to do it on a common Linux machine).

Does "reboot" command from inside the VE kills init properly?

Quote:

Now the VE is still running without any procs =8-|

No, nothing of the kind, this VE is not in running state it is in "mounted" state.

Quote:

Trying to stop from outside:

```
root@openvz01:~# vzctl stop 103
Unable to stop: VE is not running
```

As VE is not running but in mounted state you should invoke "vzctl umount 103" command.

So, I have a suspicion that init scripts inside VE cause such behavior but it's still unproven.  
How long did you wait until manually killed init process? Are there anything in dmesg/logs on the HN?

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Subject: Re: Migrated Ubuntu VPS take 2 minutes to shut down

Posted by [tanteauguri](#) on Tue, 02 Dec 2008 08:11:37 GMT

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Stopping the VE from the HE works, but the init process hangs for 2 minutes, then it is for some reason killed. The VE is unmountet as well then.

A reboot command results in an hanging init process as well

I waited 12 mintutes before I killed the init process manually

No output from dmesg in the HE

[48496.766025] CT: 103: started

[419258.414523] CT: 103: stopped

[419523.494158] CT: 103: started

[420068.767340] CT: 103: stopped

[420070.952626] CT: 103: started

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Subject: Re: Mlgrated Ubuntu VPS take 2 minutes to shut down  
Posted by [maratrus](#) on Wed, 03 Dec 2008 09:16:34 GMT  
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Hi,

could I get that VE from somewhere, i.e. is there a chance to make a tarball and provide a link to get it?

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Subject: Re: Mlgrated Ubuntu VPS take 2 minutes to shut down  
Posted by [tanteauguri](#) on Thu, 04 Dec 2008 09:28:16 GMT  
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I set up a box for you, but email is disabled, so I can't send you a login. I copied a tarball of the box itself at <http://193.80.225.68/vetest.tgz>, its 146MB.

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Subject: Re: Mlgrated Ubuntu VPS take 2 minutes to shut down  
Posted by [maratrus](#) on Fri, 05 Dec 2008 08:36:15 GMT  
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Hello,

you should create appropriate symlink:

```
In -s /etc/init.d/halt /etc/rc0.d/S90halt
```

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Subject: Re: Mlgrated Ubuntu VPS take 2 minutes to shut down  
Posted by [tanteauguri](#) on Wed, 10 Dec 2008 15:37:53 GMT  
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Thanks a lot, it works!

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