Subject: \*SOLVED\* Random Crashes

Posted by webmotive on Mon, 19 Feb 2007 12:00:23 GMT

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Hi Members of the Support Forum,

i post this here and not at the Bugs section - because iam not realy sure we are talking about a bug or some missconfiguration on our side.

We are using OpenVz since some weeks and have random crashes of the hole machine. We made sure that the hardware is not the cause by moving all the stuff to a different server (same hardware config though).

Now we are sure now that it is not a memory or cpu failure. But it could still be some kind of conflict between some harware components and the VZKernel ...?

There are no debug messages in the syslog that are of any use ...

When the mashine crashes it is still possible to ping it for a while. After that it is not even possible to ping it any more.

We had to change the beancounters very much - otherwise we were getting errors about open, files etc, (see further down)

The crash seems to occour when load goes up. Any Ideas where we should start to search? Monitoring the beancounters did not give us a hint.

At the moment we definitly cant use the system for production ...

Very strange all together ...

**Thanks** 

Christian

#### Kernel:

Linux version 2.6.18-8+openvz.2-007.1 (root@Nitrox) (gcc version 4.1.2 20061115 (prerelease) (Debian 4.1.1-21)) #1 SMP Fri Jan

#### Ispci:

00:00.0 Host bridge: VIA Technologies, Inc. K8T800Pro Host Bridge

00:00.1 Host bridge: VIA Technologies, Inc. K8T800Pro Host Bridge

00:00.2 Host bridge: VIA Technologies, Inc. K8T800Pro Host Bridge

00:00.3 Host bridge: VIA Technologies, Inc. K8T800Pro Host Bridge 00:00.4 Host bridge: VIA Technologies, Inc. K8T800Pro Host Bridge

00:00.7 Host bridge: VIA Technologies, Inc. K8T800Pro Host Bridge

00:01.0 PCI bridge: VIA Technologies, Inc. VT8237 PCI bridge [K8T800/K8T890 South]

00:09.0 RAID bus controller: 3ware Inc 7xxx/8xxx-series PATA/SATA-RAID (rev 01)

00:0b.0 Ethernet controller: Realtek Semiconductor Co., Ltd. RTL-8169 Gigabit Ethernet (rev 10) 00:0d.0 Ethernet controller: Realtek Semiconductor Co., Ltd. RTL-8169 Gigabit Ethernet (rev 10) 00:0f.0 RAID bus controller: VIA Technologies, Inc. VIA VT6420 SATA RAID Controller (rev 80) 00:0f.1 IDE interface: VIA Technologies, Inc. VT82C586A/B/VT82C686/A/B/VT823x/A/C PIPC Bus Master IDE (rev 06)

00:10.0 USB Controller: VIA Technologies, Inc. VT82xxxxx UHCI USB 1.1 Controller (rev 81)

00:10.1 USB Controller: VIA Technologies, Inc. VT82xxxxx UHCI USB 1.1 Controller (rev 81)

00:10.2 USB Controller: VIA Technologies, Inc. VT82xxxxx UHCI USB 1.1 Controller (rev 81)

00:10.3 USB Controller: VIA Technologies, Inc. VT82xxxxx UHCI USB 1.1 Controller (rev 81)

00:10.4 USB Controller: VIA Technologies, Inc. USB 2.0 (rev 86)

00:11.0 ISA bridge: VIA Technologies, Inc. VT8237 ISA bridge [KT600/K8T800/K8T890 South] 00:18.0 Host bridge: Advanced Micro Devices [AMD] K8 [Athlon64/Opteron] HyperTransport Technology Configuration

00:18.1 Host bridge: Advanced Micro Devices [AMD] K8 [Athlon64/Opteron] Address Map 00:18.2 Host bridge: Advanced Micro Devices [AMD] K8 [Athlon64/Opteron] DRAM Controller 00:18.3 Host bridge: Advanced Micro Devices [AMD] K8 [Athlon64/Opteron] Miscellaneous

Control 01:00.0 VGA compatible controller: Matrox Graphics, Inc. MGA G400/G450 (rev 85)

### cat /proc/user beancounters

# Version: 2.5

uid resource	held	maxheld	barrier	limit failc	nt	
0: kmemsize	2040256	04 26910	5689 214	7483647 214	1748364 <sup>-</sup>	7 0
lockedpages	0	0 2147	7483647	2147483647	0	
privvmpages	5998	41589	2147483	647 2147483	647	0
shmpages	1289	1625 2	1474836	47 21474836	47	0
dummy	0	0 21474	183647 2 <i>′</i>	147483647	0	
numproc	62	113 214	7483647	2147483647	0	
physpages	3201	304192	21474836	47 21474836	347	0
vmguarpage	s 0	0 214	17483647	2147483647	7 0	
oomguarpag	es 321	0 3042	8 214748	3647 214748	33647	0
numtcpsock	5	12 214	7483647	2147483647	0	
numflock	2	4 21474	83647 21	47483647	0	
numpty	2	2 21474	83647 21	47483647	0	
numsiginfo	1	5 21474	483647 2	147483647	0	
tcpsndbuf	66720	284672	21474836	647 21474836	347	0
tcprcvbuf	81920	185264 2	1474836	47 21474836	47	0
othersockbut	f 33360	408016	2147483	8647 214748	3647	0
dgramrcvbuf	0	11696 21	14748364	7 214748364	17 (	0
numothersoc	k 32	49 21	4748364	7 214748364	7 (	)
dcachesize	1614538	3 242848	31 214748	33647 21474	83647	0
numfile	975818	1299251	21474836	647 21474836	347	0
dummy	0	0 21474	183647 21	147483647	0	
dummy	0	0 21474	183647 2 <i>°</i>	147483647	0	
dummy	0	0 21474	183647 2 <i>°</i>	147483647	0	
numiptent	31	31 2147	483647 2	2147483647	0	

cat /proc/cpuinfo processor : 0

vendor id : AuthenticAMD

cpu family : 15 model : 43

model name : AMD Athlon(tm) 64 X2 Dual Core Processor 4600+

stepping : 1

cpu MHz : 2399.830 cache size : 512 KB

physical id : 0 : 2 siblings core id : 0 cpu cores : 2 : no fdiv\_bug hlt\_bug : no f00f bug : no coma bug : no fpu : yes fpu\_exception : yes cpuid level : 1

flags : fpu vme de pse tsc msr pae mce cx8 apic sep mtrr pge mca cmov pat pse36 clflush mmx fxsr sse sse2 ht syscall nx mmxext fxsr\_opt lm 3dnowext 3dnow pni lahf\_lm cmp\_legacy ts

fid vid ttp

wp

bogomips : 4805.43

: yes

processor : 1

vendor\_id : AuthenticAMD

cpu family : 15 model : 43

model name : AMD Athlon(tm) 64 X2 Dual Core Processor 4600+

stepping : 1

cpu MHz : 2399.830 cache size : 512 KB

physical id : 0 : 2 siblings core id : 1 cpu cores : 2 fdiv\_bug : no hlt bug : no f00f\_bug : no coma\_bug : no : yes fpu fpu\_exception : yes

cpuid level : 1 wp : yes

flags : fpu vme de pse tsc msr pae mce cx8 apic sep mtrr pge mca cmov pat pse36 clflush

mmx fxsr sse sse2 ht syscall nx mmxext fxsr\_opt lm 3dnowext 3dnow pni lahf\_lm cmp\_legacy ts

fid vid ttp

bogomips : 4799.54

appropriate kernel config for openvz CONFIG\_VZ\_QUOTA=m # CONFIG VZ QUOTA UNLOAD is not set CONFIG\_VZ\_QUOTA\_UGID=y # OpenVZ

CONFIG VZ GENCALLS=y

CONFIG VZ DEV=m

CONFIG VZ WDOG=m

CONFIG\_VZ\_CHECKPOINT=m

Subject: Re: Random Crashes

Posted by Vasily Tarasov on Mon, 19 Feb 2007 12:21:37 GMT

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Hello,

You're using the very old kernel! There were a lot of memory leaks and other bugs. Please, upgrade till 2.6.18-028test015, and report us, if the problem persists.

Thank you, Vasily

Subject: Re: Random Crashes

Posted by grisu on Fri, 23 Feb 2007 08:57:46 GMT

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Vasily Tarasov wrote on Mon, 19 February 2007 07:21Hello,

You're using the very old kernel! There were a lot of memory leaks and other bugs. Please, upgrade till 2.6.18-028test015, and report us, if the problem persists.

Ok, now we have a new kernel and 1.5 houre later, we have the next 'crash'.

it is running:

# cat /proc/version

Linux version 2.6.18-028test015-grisu-ovz028test015.1

and after some time (the backup-script with some IO was running) the maschin begin to crash.

You can't start a real ssh connection on the computer, but 'ssh root@XXXX uptime' was working, 'ssh root@XXXX bash' also.

If I typed 'date', I get a 'permission deny'?!

After this I push reset and now the computer is running... I wait for the next crash.

Some new ideas?

Thanks

Grisu

Subject: Re: Random Crashes

Posted by JimL on Fri, 23 Feb 2007 10:23:39 GMT

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Sounds strange enough to be a result of a hacked system. If you have an extra partition, I'd suggest reinstalling the system from scratch on a separate partition. Since you do appear have extra hardware perhaps you could use it instead just to eliminate that possibility. This is a long shot, but somthing to try.

Jim

Subject: Re: Random Crashes

Posted by grisu on Fri, 23 Feb 2007 11:00:40 GMT

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JimL wrote on Fri, 23 February 2007 05:23Sounds strange enough to be a result of a hacked system. If you have an extra partition, I'd suggest reinstalling the system from scratch on a separate partition. Since you do appear have extra hardware perhaps you could use it instead just to eliminate that possibility. This is a long shot, but somthing to try.

Jim

Sorry, the ssh-problem was on the host-system and the hostsystem was reinstalled on both hardware. (we only copy the openvz's, not the whole disk)

Also the backup-script (faubackup) was running in the host-system.

At the time of the crash the openvz are running, but not in real use...

**Thanks** 

Subject: Re: Random Crashes

Posted by Vasily Tarasov on Mon, 26 Feb 2007 10:41:32 GMT

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Hello,

It will be perfect, you'll post here:

- 1) full .config file you used, while compiling OpenVZ kernel in use
- 2) Your backup-script. Having it in hand we will be able to produce the same stress test locally and probably reproduce the crash.

It will be great, if you can set up a remote console and press magic keys while next crash (http://wiki.openvz.org/Remote\_console\_setup http://wiki.openvz.org/Magic\_SysRq\_Key)

Also you can compile OpenVZ kernel with official configs from openvz.org and check, is the problem reproducible with such kernels.

Thank you,

We appreciate you help very much,

Vasily

Subject: Re: Random Crashes

Posted by grisu on Mon, 26 Feb 2007 23:01:03 GMT

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Vasily Tarasov wrote on Mon, 26 February 2007 05:41Hello,

It will be perfect, you'll post here:

1) full .config file you used, while compiling OpenVZ kernel in use

see Attachment.

Quote:

2) Your backup-script. Having it in hand we will be able to produce the same stress test locally and probably reproduce the crash.

it is only:

/usr/sbin/faubackup --one-file-system 10.0.0.136:/data1

see http://faubackup.sourceforge.net/

#### Quote:

It will be great, if you can set up a remote console and press magic keys while next crash (http://wiki.openvz.org/Remote\_console\_setup http://wiki.openvz.org/Magic\_SysRq\_Key)

Ok, I start Remote\_console\_setup...

#### Quote:

Also you can compile OpenVZ kernel with official configs from openvz.org and check, is the problem reproducible with such kernels.

I download kernel-smp-2.6.18-ovz028test015.1.i686.rpm and I try to using this kernel after the next reboot...

Thanks for your help

Grisu

## File Attachments

1) config-2.6.18-028test015-grisu-ovz028test015.1, downloaded 356 times

Subject: Re: Random Crashes

Posted by Vasily Tarasov on Tue, 27 Feb 2007 08:57:51 GMT

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Hello,

Thanks for the cooperation. I look forrward to information from you. Meanwhile in the evening I'll set your io-test on kernel compiled on your config.

Thanks.

Subject: Re: Random Crashes

Posted by grisu on Wed, 28 Feb 2007 08:52:39 GMT

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Vasily Tarasov wrote on Tue, 27 February 2007 03:57Thanks for the cooperation. I look forrward to information from you. Meanwhile in the evening I'll set your io-test on kernel compiled on your config.

The first infos:

we have 2.6.18-ovz028test015.1-sm running the remote console is running

and we now waiting for the next crash.

**Thanks** 

Grisu

Subject: Re: Random Crashes

Posted by grisu on Sat, 10 Mar 2007 10:56:48 GMT

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Quote: The first infos:

we have 2.6.18-ovz028test015.1-sm running the remote console is running

and we now waiting for the next crash.

Ok. I have new infos:

first we run the OVZ on the Server1 with the 2.6.18-ovz028test015.1-sm-Kernel. With out any problem. Uptime >10 Days. Nice. Your Kernel is running.

Yesterday I switch the OVZ back the Server2 with the 2.6.18-ovz028test015.1-sm-Kernel. The Software ist the same, the HW also, with one exception: the server2 have a raid-controller

The Server2 crash after X hours... Hm.

I add the remote-console-output from both Server. One with the kernel-ops.

Maybe you see now the problem...

Thanks for your help....

Grisu

### File Attachments

- 1) crash.txt, downloaded 437 times
- 2) work.txt, downloaded 373 times

Subject: Re: Random Crashes Posted by Vasily Tarasov on Tue, 13 Mar 2007 08:00:54 GMT

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Hello.

sorry for the answer delay! Your crash seems to be a hardware related problem. Can you, please, run memtest and cpuburn on server2, where you had Ooops (http://wiki.openvz.org/Hardware\_testing). Please, run cpuburn under non-OpenVZ kernel.

Thanks, Vasily.

Subject: Re: Random Crashes

Posted by grisu on Thu, 22 Mar 2007 13:26:18 GMT

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Hello

**Thanks** 

Now we have checked the server and the company found a HW-error.

With the new server, openVz is working...

Thanks

Grisu

Subject: Re: Random Crashes

Posted by Vasily Tarasov on Thu, 22 Mar 2007 13:43:39 GMT

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Thank you for info.

Good luck, Vasily.