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

lspci:
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	failcnt
0:	kmemsize	204025604	269105689	2147483647	2147483647	0
	lockedpages	0	0	2147483647	2147483647	0
	privvmpages	5998	41589	2147483647	2147483647	0
	shmpages	1289	1625	2147483647	2147483647	0
	dummy	0	0	2147483647	2147483647	0
	numproc	62	113	2147483647	2147483647	0
	physpages	3201	30419	2147483647	2147483647	0
	vmguarpages	0	0	2147483647	2147483647	0
	oomguarpages	3210	30428	2147483647	2147483647	0
	numtcpsock	5	12	2147483647	2147483647	0
	numflock	2	4	2147483647	2147483647	0
	numpty	2	2	2147483647	2147483647	0
	numsiginfo	1	5	2147483647	2147483647	0
	tcpsndbuf	66720	284672	2147483647	2147483647	0
	tcprcvbuf	81920	185264	2147483647	2147483647	0
	othersockbuf	33360	408016	2147483647	2147483647	0
	dgramrcvbuf	0	11696	2147483647	2147483647	0
	numothersock	32	49	2147483647	2147483647	0
	dcachesize	1614538	2428481	2147483647	2147483647	0
	numfile	975818	1299251	2147483647	2147483647	0
	dummy	0	0	2147483647	2147483647	0
	dummy	0	0	2147483647	2147483647	0
	dummy	0	0	2147483647	2147483647	0
	numiptent	31	31	2147483647	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
siblings        : 2
core id         : 0
cpu cores       : 2
fdiv_bug        : no
hlt_bug         : no
f00f_bug        : no
coma_bug        : no
fpu             : yes
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        : 4805.43

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
siblings        : 2
core id         : 1
cpu cores       : 2
fdiv_bug        : no
hlt_bug         : no
f00f_bug        : no
coma_bug        : no
fpu             : yes
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

Grisu

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 481 times

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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 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 566 times
2) work.txt, downloaded 479 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.