Subject: Oops. How do i find out what it means.
Posted by vobiscum on Sat, 22 Apr 2006 05:20:31 GMT
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I was attempting to shut down a VPS with vzctl and I got the following message:

Message from syslogd@corbusier at Sat Apr 22 15:08:21 2006 ...
corbusier kernel: Oops: 0000 [1]

Message from syslogd@corbusier at Sat Apr 22 15:08:21 2006 ...
corbusier kernel: CR2: ffff820401003128

What does this mean? I have had problems with the server crashing using the previous patch (026test005). However the current patch has been running for a day without any real problems.

I am using using kernel.org 2.6.16 patched with 026test009 running on an athlon 64. I am using debian, with vzctl 3.0.0 ported using alien.

Subject: Re: Oops. How do i find out what it means.
Posted by dev on Sat, 22 Apr 2006 07:21:13 GMT
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first, I would like to ask you to check /var/log/messages for full kernel report of oops, including registers and call traces, since 2 lines you provided are the most irrelevant part of it and don't help

next, if this 2.6.16 kernels oops very often on your hardware I really recommend to run memtest86 and memtest+cpuburn. 009 kernel should be stable enough (at least on VPS stop))))

Subject: Re: Oops. How do i find out what it means.
Posted by dev on Sat, 22 Apr 2006 07:34:26 GMT
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also any additional details will be appreciated. is it reproducable? full oops text.

Subject: Re: Oops. How do i find out what it means.
Posted by vobiscum on Sat, 22 Apr 2006 08:35:53 GMT
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Here is the output in the kernel log. Its kind of strange that its saying the number of IP tables entries in virtual server 101 is exceeding the limit (since i haven't tried to run iptables in any of them). As I understand it, cpuburn doesn't work on K8 cpus. Any suggestions?

Ned

Apr 22 14:56:20 corbusier kernel: Fatal resource shortage: numiptent, UB 101.
Apr 22 15:03:41 corbusier kernel: Fatal resource shortage: numiptent, UB 101.
Apr 22 15:08:07 corbusier last message repeated 2 times
Apr 22 15:08:08 corbusier last message repeated 2 times
Apr 22 15:08:11 corbusier last message repeated 2 times
Apr 22 15:08:21 corbusier kernel: Unable to handle kernel paging request at ffff820401003128 RIP:
Apr 22 15:08:21 corbusier kernel: [kfree+87/176]
Apr 22 15:08:21 corbusier kernel: PGD 0
Apr 22 15:08:21 corbusier kernel: Oops: 0000 [1]
Apr 22 15:08:21 corbusier kernel: CPU: 0
Apr 22 15:08:21 corbusier kernel: Modules linked in: simfs vznetdev vzdquota vzmon vzdev af_packet xt_length ipt_ttl xt_tcpmss ipt_TCPMSS iptable_mangle ipt_multiport xt_limit ipt_tos ipt_REJECT xt_state xt_tcpudp ipt_LOG iptable_nat ip_nat iptable_filter ip_conntrack_irc ip_conntrack_ftp ip_conntrack ip_tables x_tables i2c_viapro i2c_core shpchp ehci_hcd uhci_hcd usbcore r8169 ide_cd cdrom
Apr 22 15:08:21 corbusier kernel: Pid: 4916, comm: vzmond Not tainted 2.6.16-026test009-026test009-combined-ovz #1
Apr 22 15:08:21 corbusier kernel: RIP: 0060:[kfree+87/176]
Apr 22 15:08:21 corbusier kernel: RSP: 0000:ffff81003d771e98 EFLAGS: 00210086
Apr 22 15:08:21 corbusier kernel: RAX: ffff820401003100 RBX: ffff81003e88c580 RCX: 000000000000f2e1
Apr 22 15:08:21 corbusier kernel: RDX: 0000000000000021 RSI: ffffffff80583460 RDI: ffffc200000c4000
Apr 22 15:08:21 corbusier kernel: RBP: ffffc200000c4000 R08: 0000000000000080 R09: 00000000bffff278
Apr 22 15:08:21 corbusier kernel: R10: ffff810023d8c000 R11: 0000000014e7de00 R12: 00000000000017bf
Apr 22 15:08:21 corbusier kernel: R13: 00002b2227bd3000 R14: ffffffff804b2e80 R15: 0000000000507320
Apr 22 15:08:21 corbusier kernel: FS: 00002b2227f13640(0000) GS:ffffffff805ba000(0000) knlGS:00000000b7bcf4e0
Apr 22 15:08:21 corbusier kernel: CS: 0060 DS: 0000 ES: 0000 CR0: 000000008005003b
Apr 22 15:08:21 corbusier kernel: CR2: ffff820401003128 CR3: 000000000d9b6000 CR4: 00000000000006e0
Apr 22 15:08:21 corbusier kernel: Process vzmond (pid: 4916, veid=0, threadinfo ffff81003d770000, task ffff81003fa2c050)
Apr 22 15:08:21 corbusier kernel: Stack: ffff81003d610880 0000000000200286 ffff81003e88c580 0000000000000003
Apr 22 15:08:21 corbusier kernel: 00000000000017bf ffffffff88069d89 ffffffff8808bf10 ffffffff8808b1c6
Apr 22 15:08:21 corbusier kernel: ffff81003c89e000 ffff81003c89e000
Apr 22 15:08:21 corbusier kernel: Call Trace: [__nosave_end+128376201/2130722816] [__nosave_end+128512454/2130722816] [__nosave_end+128729376/2130722816] [__nosave_end+128733451/2130722816] [__nosave_end+128733816/2130722816]

[__nosave_end+128734005/2130722816] [child_rip+8/18]
[__nosave_end+128733856/2130722816] [child_rip+0/18]
Apr 22 15:08:21 corbusier kernel:
Apr 22 15:08:21 corbusier kernel: Code: 4c 8b 60 28 49 8b 1c 24 e8 8c 3f fd ff 8b 13 3b 53 04 73 0c
Apr 22 15:08:21 corbusier kernel: RIP [kfree+87/176] RSP <ffff81003d771e98>
Apr 22 15:08:21 corbusier kernel: CR2: ffff820401003128

Subject: Re: Oops. How do i find out what it means.
Posted by xemul on Mon, 24 Apr 2006 08:25:04 GMT
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If you can reproduce it, please, try
echo 1 > /proc/sys/debug/decode_call_traces
first.

Subject: Re: Oops. How do i find out what it means.
Posted by xemul on Mon, 24 Apr 2006 08:35:08 GMT
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Also, your calltrace looks wierd to me... There's no places in our kernel where address is printed with "[%s+%d/%d]" format.
Did you patch non-vanilia kernel or apply some other patches rather than openvz one?

Subject: Re: Oops. How do i find out what it means.
Posted by vobiscum on Mon, 01 May 2006 22:54:06 GMT
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It is impossible to replicate the problem. When I reported the error, it was probably the first time the server had crashed while I was doing something. Last night for example, the system crashed after 9 days, with no notification in kern.log.

The kernel was built from vanilla sources. However, it was compiled using the debian kernel-package tools.

I have turned on /proc/sys/debug/decode_call_traces. Now is it time to wait and see what happens?

Ned

Subject: Re: Oops. How do i find out what it means.

Posted by dev on Tue, 02 May 2006 06:49:33 GMT
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what do you mean by crashed w/o messages in kern.log? Maybe, you mean /var/log/messages?
Was soomething on the screen? Did it hang or reboot?

Subject: Re: Oops. How do i find out what it means.
Posted by vobiscum on Tue, 02 May 2006 07:44:53 GMT
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Sorry about mentioning kern.log (its a debianism). Its similar to /var/log/messages.

Unfortunately I don't console access to this server (its stuck in a datacentre). The server just hung, rather than being rebooted.

The problem could be completely unrelated to the OpenVZ patch, I am just exploring all possibilities as the people who I rent the server of are sure that there are no hardware problems with the server.

Subject: Re: Oops. How do i find out what it means.
Posted by dev on Wed, 03 May 2006 18:17:23 GMT
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Is it possible to setup a serial console in this datacenter?
If not, maybe you are able to setup netconsole which can help to collect kernel messages before the hang?