Subject: Weird VE/UBC problem
Posted by dlzinc on Fri, 27 Oct 2006 04:18:26 GMT
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I tried to SSH into one of my VPSes and it failed (connection reset). So I logged in to the HN and tried enter, that failed. Usually when that happens it's "cannot fork" due to inadequate resource, but this time...

[root@sakura ~]# vzctl enter 112
enter failed

I checked UBC just in case...

[root@sakura ~]# vzctl exec 112 cat /proc/user_beancounters
Version: 2.5

uid	resource	held	maxheld	barrier	limit	failcnt
112:	kmemsize	2936930	4623186	16384000	18022400	0
	lockedpages	0	0	32	32	0
	privvmpages	47892	245925	262144	288358	0
	shmpages	140	812	8192	8192	0
	dummy	0	0	0	0	0
	numproc	52	80	100	100	0
	physpages	12146	27743	0	2147483647	0
	vmguarpages	0	0	6144	2147483647	0
	oomguarpages	12146	27743	6144	2147483647	0
	numtcpsock	10	18	80	80	0
	numflock	6	12	100	110	0
	numpty	0	1	16	16	0
	numsiginfo	0	10	256	256	0
	tcpsndbuf	101728	291600	5365760	10485760	0
	tcprcvbuf	214120	507292	5365760	10485760	0
	othersockbuf	22360	45640	1503232	4063232	0
	dgramrcvbuf	0	8380	2097152	2097152	0
	numothersock	18	28	80	80	0
	dcachesize	0	0	1048576	1097728	0
	numfile	1164	1706	2048	2048	0
	dummy	0	0	0	0	0
	dummy	0	0	0	0	0
	dummy	0	0	0	0	0
	numiptent	10	10	128	128	0

I tried restarting it, and it still had the same problem. I checked dmesg and noticed:

UBC: BUG: fixing bad page PBs for c1646fbc
flags: 0x20000070 mapping: ef9c43fd mapcount: 0 count: 1

PB is c2e56da0 magic 1651769345
[<c015f2ab>] pb_remove_ref+0x34b/0x460
[<c016b380>] find_get_page+0x50/0x130
[<c018133a>] zap_pte_range+0x18a/0x2e0
[<c015ec88>] pb_add_ref+0x1f8/0x4d0
[<c0181513>] zap_pmd_range+0x83/0xb0
[<c01816bf>] unmap_page_range+0x5f/0xf0
[<c0181870>] unmap_vmas+0x120/0x200
[<c0189105>] exit_mmap+0xa5/0x260
[<c012d0ce>] mmput+0x7e/0x130
[<c01356ee>] do_exit+0x1be/0x860
[<c0135ece>] do_group_exit+0xbe/0x1d0
[<c0120c40>] do_page_fault+0x0/0x5dd
[<c057b61f>] syscall_call+0x7/0xb
Leak PB c2e56da0 for UB f6af0580
removed 1 PBs from hash
VPS: 112: stopped
VPS: 112: started
Registered tone zone 0 (United States / North America)

The stopped/started was me trying to restart it. It runs asterisk with ztdummy.

1. What does that UBC BUG mean?
2. Would ztdummy have something to do with it?
I have never had this issue before.

Off-topic:
Is there a specific reason why ipt_owner isn't built into the OVZ stab kernel? Is it because it needs to be virtualized to work properly?

[root@sakura ~]# uname -ar
Linux sakura.seraphimnetworks.com 2.6.9-023stab032.1 #1 Fri Oct 20 02:48:36 MSD 2006 i686 i686 i386 GNU/Linux

About the only thing I haven't tried yet is restarting the HN (I kinda want to avoid doing that if possible...)

Subject: Re: Weird VE/UBC problem
Posted by Vasily Tarasov on Fri, 27 Oct 2006 07:01:00 GMT
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Hello,

Quote:

1. What does that UBC BUG mean?

this is definitely openVZ kernel BUG. I filled the bug:
http://bugzilla.openvz.org/show_bug.cgi?id=320
You can add your e-mail to CC to follow the progress on the bug.
BTW, if you've you compiled the kernel by yourself, then, please, add your .config file to bug report. Thanks!

Quote:2. Would ztdummy have something to do with it?
I have never had this issue before.
ztdummy is a kernel module... And there is no such module in mainstream (vanilla kernel)... So you have compiled it yourself. Where have you got sources for ztdummy?

Quote:
Is there a specific reason why ipt_owner isn't built into the OVZ stab kernel? Is it because it needs to be virtualized to work properly?

Ohhh!... ipt_owner is virtualized, but we just forgot to turn appropriate option on! Thanks, will be fixed in the next kernel!

Good luck,
vass.

Subject: Re: Weird VE/UBC problem
Posted by dev on Fri, 27 Oct 2006 07:54:44 GMT
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check http://bugzilla.openvz.org/show_bug.cgi?id=320
it looks like memory corruption (1 bit modification).
Please check your hardware according to http://wiki.openvz.org/Hardware_testing

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Subject: Re: Weird VE/UBC problem
Posted by dlzinc on Fri, 27 Oct 2006 14:33:26 GMT
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http://ftp.digium.com/pub/zaptel/releases/zaptel-1.2.10.tar. gz are the sources for ztdummy (yes I did compile it myself)

I'll check my hardware...

Subject: Re: Weird VE/UBC problem
Posted by curx on Fri, 27 Oct 2006 14:43:46 GMT
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Hi,

have you loaded the module zaptel, can you please show the "interrupts" in your VE0 (Hardware Node)

cat /proc/interrupts

and dmesg entries of zaptel ...

Subject: Re: Weird VE/UBC problem
Posted by dlzinc on Fri, 27 Oct 2006 14:47:20 GMT
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I didn't think zaptel was supposed to have anything in /proc/interrupts unless I had actual zaptel hardware (I don't), which is why I'm using ztdummy.

dmesg snip

Zapata Telephony Interface Registered on major 196
Zaptel Version: 1.2.10 Echo Canceller: KB1
VPS: 109: started
loop: loaded (max 8 devices)
VPS: 112: started
Registered tone zone 0 (United States / North America)
UBC: BUG: fixing bad page PBs for c1646fbc
 flags: 0x20000070 mapping: ef9c43fd mapcount: 0 count: 1
 PB is c2e56da0 magic 1651769345
[<c015f2ab>] pb_remove_ref+0x34b/0x460
[<c016b380>] find_get_page+0x50/0x130
[<c018133a>] zap_pte_range+0x18a/0x2e0
[<c015ec88>] pb_add_ref+0x1f8/0x4d0
[<c0181513>] zap_pmd_range+0x83/0xb0
[<c01816bf>] unmap_page_range+0x5f/0xf0
[<c0181870>] unmap_vmas+0x120/0x200
[<c0189105>] exit_mmap+0xa5/0x260
[<c012d0ce>] mmput+0x7e/0x130
[<c01356ee>] do_exit+0x1be/0x860
[<c0135ece>] do_group_exit+0xbe/0x1d0
[<c0120c40>] do_page_fault+0x0/0x5dd

```
 [<c057b61f>] syscall_call+0x7/0xb
  Leak PB c2e56da0 for UB f6af0580
  removed 1 PBs from hash
VPS: 112: stopped
VPS: 112: started
Registered tone zone 0 (United States / North America)



[root@sakura ~]# cat /proc/interrupts
           CPU0
  0:  147306633    IO-APIC-edge  timer
  8:          1    IO-APIC-edge  rtc
  9:          0   IO-APIC-level  acpi
 14:     454483    IO-APIC-edge  ide0
 16:          0   IO-APIC-level  uhci_hcd
 17:          0   IO-APIC-level  uhci_hcd
 18:          0   IO-APIC-level  uhci_hcd
 19:          0   IO-APIC-level  ehci_hcd
 21:    3515053   IO-APIC-level  eth0
NMI:  147306628
LOC:  147310762
ERR:          0
MIS:          0
```