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Subject: Kernel OOPS

Posted by [linuxtuxie](#) on Wed, 24 May 2006 14:34:39 GMT

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Hello all,

I have a debian sarge hardware node and the 2.6.8 kernel has been fetched from kernel.org patched with openvz-022stab07.

I also used the smp config file. Additionally I did enable xfs support.

Now however I received a kernel oops. The kernel oops occurred during a copy action (cp).

I have pasted the message I saw on the terminal below

Does this make sense to anybody?

Any help is gratefully appreciated...

Regards,  
Kim

Unable to handle kernel paging request at virtual address 9b4a19fc

printing eip:

c011a843

\*pde = 00000000

Oops: 0000 [#1]

SMP

Modules linked in: simfs vznetdev vxdquota vzmon vzdev af\_packet ipt\_length ipt\_ttl ipt\_tcpmss ipt\_TCPMSS iptable\_mangle iptable\_filter ipt\_multiport ipt\_limit ipt\_tos ipt\_REJECT ip\_tables sg sr\_mod ehci\_hcd ohci\_hcd usbcore tg3 e100 mii ide\_cd cdrom ide\_scsi

CPU: 11, VCPU: 393221:524295

EIP: 0060:[<c011a843>] Not tainted

EFLAGS: 00010086 (2.6.8-elex-openvz-022stab077)

EIP is at activate\_task+0x33/0x1b0

eax: 9b4a19e0 ebx: c354b000 ecx: 000001a4 edx: 0001e17e

esi: f3e1b260 edi: 00000001 ebp: dbeb5048 esp: dbeb5018

ds: 007b es: 007b ss: 0068

Unable to handle kernel paging request at virtual address 00090008

printing eip:

c01063f7

\*pde = 00000000

File erased !

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Subject: Re: Kernel OOPS

Posted by [Vasily Tarasov](#) on Wed, 24 May 2006 16:42:37 GMT

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1) Is there the whole oops text in /var/log/messages?

I mean, that you've posted not all information about oops: usually call trace exists in oops text, something like that:

Quote:...

kernel: Call Trace:

kernel: [prune\_dcache+246/320] prune\_dcache+0xf6/0x140

kernel: [shrink\_dcache\_memory+27/80] shrink\_dcache\_memory+0x1b/0x50

kernel: [shrink\_slab+311/400] shrink\_slab+0x137/0x190

kernel: [balance\_pgdat+416/656] balance\_pgdat+0x1a0/0x290

kernel: [kswapd+221/240] kswapd+0xdd/0xf0

kernel: [kswapd+0/240] kswapd+0x0/0xf0

kernel: [autoremove\_wake\_function+0/64] autoremove\_wake\_function+0x0/0x40

kernel: [autoremove\_wake\_function+0/64] autoremove\_wake\_function+0x0/0x40

kernel: [kernel\_thread\_helper+5/16] kernel\_thread\_helper+0x5/0x10

kernel: Code: 83 78 24 00 75 0a 50 e8 10 fe ff ff 83 c4 04 c3 50 e8 06

ff ff ff 83 c4 04 c3 89 f6 53 8b 5c 24 08 85 db 74 55 8b 83 98 00 00 00

<8b> 40 24 83 bb 24 01 00 00 20 75 08 0f 0b 4c 04 f1 7e 45 c0 85

...

Such information is highly usefull for us, to understand the reason of oops.

2) Do you use xfs on /vz partion?

3) Have you copied inside VPS or on HN?

Thanks.

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Subject: Re: Kernel OOPS

Posted by [kir](#) on Wed, 24 May 2006 16:42:49 GMT

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Can you please check if oops text is available in some file (like /var/log/messages) and if yes, give us the full oops text (the best way is to file a bug to <http://bugzilla.openvz.org/>).

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Subject: Re: Kernel OOPS

Posted by [linuxtuxie](#) on Wed, 24 May 2006 19:57:26 GMT

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1) Is there the whole oops text in /var/log/messages?

No, I do not see any trace stack in my complete /var/log folder

2) Do you use xfs on /vz partion?

Yes I use xfs for /vz on an lvm volume (and also for the other partitions btw)

3) Have you copied inside VPS or on HN?

I copied data on the Hn from one VPS to antoher. The machine has 2 VPS's, both VPS's where running

The info I saw has been copied from the serial console, in our company we use serial port redirection and all data is being sent to the serial port which is being captured by device. The info I already pasted is comming from there

Regards,  
Kim

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Subject: Re: Kernel OOPS

Posted by [kir](#) on Wed, 24 May 2006 20:11:20 GMT

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That's excellent that you have serial console set up! Can you attach the full oops report here, including some preceding lines as well?

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Subject: Re: Kernel OOPS

Posted by [linuxtuxie](#) on Wed, 24 May 2006 21:39:15 GMT

Hi Kir,

Well, the only output I saw on my serial console is the one listed in the original post

My serial console redirection has been set up in grub with the following statements:

```
serial --unit=0 --speed=9600 --word=8 --parity=no --stop=1
terminal --timeout=10 serial console
```

```
title      Debian GNU/Linux, kernel 2.6.8-elex-openvz-022stab077
root      (hd0,0)
kernel    /vmlinuz-2.6.8-openvz-022stab077 root=/dev/md1 ro console=tty0
console=ttyS0,9600n
initrd    /initrd.img-2.6.8-openvz-022stab077
savedefault
boot
```

I have also enabled a tty in /etc/inittab:

```
T0:23:respawn:/sbin/getty -L ttyS0 9600 vt100
```

Regards,  
Kim

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Subject: Re: Kernel OOPS

Posted by [Vasily Tarasov](#) on Thu, 25 May 2006 07:35:26 GMT

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I see from your oops, that kernel can't even print full oops text. When kernel tries to output information second oops occurs:

```
Quote:ds: 007b  es: 007b  ss: 0068
```

```
Unable to handle kernel paging request at virtual address 9b4a19fc
```

```
printing eip:
```

```
c011a843
```

```
*pde = 00000000
```

```
....
```

```
ds: 007b  es: 007b  ss: 0068
```

```
Unable to handle kernel paging request at virtual address 00090008
```

printing eip:

c01063f7

\*pde = 00000000

Can you check memory on your node please?

BTW, what did happen after oops? The node in question hanged or rebooted or worked further?

Thanks.

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Subject: Re: Kernel OOPS

Posted by [linuxtuxie](#) on Thu, 25 May 2006 11:46:08 GMT

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Hi,

Here is a screendump of the current mem usage:

Cpu(s): 0.0% us, 0.0% sy, 0.0% ni, 100.0% id, 0.0% wa, 0.0% hi, 0.0% si

Mem: 3100624k total, 3079184k used, 21440k free, 39664k buffers

Swap: 1959912k total, 0k used, 1959912k free, 2863528k cached

After the oops the complete machine hanged and I saw the earlier posted message on the serial console, the only action I could take was cutting the power of the machine and starting it up again.

Regards,  
Kim

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Subject: Re: Kernel OOPS

Posted by [Vasily Tarasov](#) on Thu, 25 May 2006 11:54:55 GMT

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Quote:Can you check memory on your node please?

I meant check your RAM for errors

You can use something like memtest86 programm.

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