Subject: forcedeth problems with 2.6.18-028stab045.1
Posted by wilf on Wed, 17 Oct 2007 19:16:38 GMT
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I have been having fun and games bringing a new OpenVZ server live. I have been seeking help in the Gentoo forums until I realised that the problem was driver/kernel related (see this. All of the hardware I am using is listed here.

I downloaded 2.6.19 hoping to pick up the .57 forcedeth driver, which I did. Unfortunately it looks like major irq work happened between 2.6.18 and 2.6.19.

Anyway, I have ended up with no option but to try the dev branch 2.6.22 kernel, which is OK (FX: Gulp!) but I can't get that to compile either. As usual for me, I downloaded the vanilla 2.6.22 kernel and applied the patch-ovz003.2-combined. CC   arch/x86_64/kernel/ldt.o
In file included from arch/x86_64/kernel/ldt.c:26:
include/bc/kmem.h: In function 'should_charge':
include/bc/kmem.h:47: error: dereferencing pointer to incomplete type
include/bc/kmem.h:49: error: dereferencing pointer to incomplete type
make[1]: *** [arch/x86_64/kernel/ldt.o] Error 1
make: *** [arch/x86_64/kernel] Error 2Any help would be gratefully appreciated as I am left with an expensive underutilised heater without OpenVZ working

Best Regards, Paul.

Subject: Re: forcedeth problems with 2.6.18-028stab045.1
Posted by wilf on Wed, 17 Oct 2007 19:53:00 GMT
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I have 2.6.18-028stab045.1 working with an old Realtek 8139, so I have a temporary fix. Forcedeth will have to wait until either the driver is backported or the 2.6.22 OpenVZ goes gold.

Best Regards, Paul.

Subject: Re: forcedeth problems with 2.6.18-028stab045.1
Posted by khorenko on Thu, 18 Oct 2007 09:02:40 GMT
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Hello Paul,

could you please give me some details?
i've just taken a 2.6.22 mainstream kernel, applied patch-ovz003.2-combined.gz from http://wiki.openvz.org/Download_kernel_2.6.22 and successfully compiled the kernel with config kernel-2.6.22-x86_64.config.ovz taken from the same page.
No errors.

Could you please tell me which gcc version and config did you use?

Thank you,

--
Konstantin.

Subject: Re: forcedeth problems with 2.6.18-028stab045.1
Posted by wilf on Fri, 19 Oct 2007 10:17:12 GMT
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Hi Konstantin,

Quote:could you please give me some details?
i've just taken a 2.6.22 mainstream kernel, applied patch-ovz003.2-combined.gz from http://wiki.openvz.org/Download_kernel_2.6.22 and successfully compiled the kernel with config kernel-2.6.22-x86_64.config.ovz taken from the same page.
No errors.
Could you please tell me which gcc version you used?
fox ~ # gcc --version
gcc (GCC) 4.1.2 (Gentoo 4.1.2 p1.0.2)
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This is free software; see the source for copying conditions. There is NO
warranty; not even for MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE.

Quote:and which config you used?
Hmmm... I just downloaded kernel-2.6.22-x86_64.config.ovz, used this and the kernel has complied very nicely. Looks like you hit the nail on the head - Sorry! (FX: Sheepish grin)

In your opinion, how close to release is the 2.6.22 branch?

Best Regards, Paul.

Subject: Re: forcedeth problems with 2.6.18-028stab045.1
Posted by khorenko on Fri, 19 Oct 2007 12:46:59 GMT
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Hi Paul.

wilf wrote on Fri, 19 October 2007 14:17In your opinion, how close to release is the 2.6.22 branch?

Well, not too close i'm afraid. It still doesn't support the online migration and there still some known problems with netfilters. Probably netfilters will be fixed quite soon, but can't say anything about the online migration.

From my point of view if you are going just to play with OpenVZ and won't set it in production and don't need the online migration - you can stay with 2.6.22, otherwise i suppose it's better to keep trying to backport the required forcedeth patches to 2.6.18 branch.

Regards,
--
Konstantin.

Subject: Re: forcedeth problems with 2.6.18-028stab045.1
Posted by wilf on Fri, 19 Oct 2007 15:26:34 GMT
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Hi Konstantin,

Thanks for the reply. The machine I was building is for me - but it needs to be mission critical as it will be providing a service to customers. WRT the forcedeth driver, I have simply compiled it out and stuck in two el cheapo rhine cards, which work a treat.

I can't really see the point of backporting the latest forcedeth driver to 2.6.18 as one can always use another card. This is especially true as there have been quite a lot of under the bonnet changes since 2.6.18 to driver architecture WRT pci/irq handling, so making the changes isn't ten minutes work. I spent an hour or two on it and ended up with something which booted and recognised the card, and then died a very smelly death (or should I say deth? Aieee!) taking the kernel with it.

I am looking forward to Linus changing his mind about including only kvm in the kernel, and opening the door to including OpenVZ (and dare I mention it, others too). OpenSource is also about choice, just having kvm is restrictive. The last time I suggested including OpenVZ on the kernel mailing list it didn't go down too well

Although I don't use online migration ATM, I think on balance I'll stick with 2.6.18 for the time being.

Best Regards, Paul.
