Subject: Dell Dimension 4300 - NIC module dmfe missing
Posted by dowdle on Fri, 09 Dec 2005 19:22:17 GMT
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Installed on an existing FC4 Hardware Host. When booting into the openvz kernel I get an error message when it tries to bring up the network.

My stock FC4 kernel loads the dmfe module for the NIC:
(from /etc/modprobe.conf)
alias eth0 dmfe

lspci | grep Ethernet
02:09.0 Ethernet controller: Davicom Semiconductor, Inc. 21x4x DEC-Tulip compatible 10/100 Ethernet (rev 31)

Stock kernel has
/lib/modules/2.6.14-1.1644_FC4/kernel/drivers/net/tulip/dmfe .ko while it is missing from openvz kernel.

I know that OpenVZ has many drivers compiled into the kernel rather than as modules but this doesn't seem to be the case for this NIC.

I'd attempt to compile my own kernel but given the complexity of the process, I'm wondering if there is a technical reason it is missing... or if it can eventually be incorporated into OpenVZ stable kernel??

I got OpenVZ working on another machine just fine (with the exception of the sound device)... and am really impressed.

Subject: Re: Dell Dimension 4300 - NIC module dmfe missing
Posted by dowdle on Sat, 10 Dec 2005 00:39:31 GMT
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A little more info:

In dmesg of stock kernel:
eth0: Davicom DM9102 at pci0000:02:09.0, 00:80:ad:78:c4:ff, irq 11
[...]
dmfe: Davicom DM9xxx net driver, version 1.36.4 (2002-01-17)

From Virtuozzo Hardware Compatibility page:
http://www.virtuozzo.com/en/products/virtuozzo/hcl/network/
Davicom DM9102/DM9102A 21x4x DEC-Tulip compatible 10/100 Ethernet Adapter 0x9100

So, perhaps I'm doing something wrong? Suggestions?

I loaded the tulip module by hand and it did bring up the interface, but it didn't work. I could ping IP addresses (not names although resolv.conf is fine) but no application protocols seemed to work. Lost on this one.

Subject: Re: Dell Dimension 4300 - NIC module dmfe missing
Posted by kir on Mon, 12 Dec 2005 09:58:19 GMT
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What is the version of OpenVZ kernel you are using?

Subject: Re: Dell Dimension 4300 - NIC module dmfe missing
Posted by vaverin on Mon, 12 Dec 2005 11:42:48 GMT
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Hello Dowdie,

we support this hardware by tulip driver.

you need to replace alias in /etc/modprobe.conf
alias eth0 tulip

I hope it resloves this issue.

If you want we can add the compilation of dmfe module into our next kernels. Could you please confirm that you really need it and you are able to test it.

thank you,
Vasily Averin

Subject: Re: Dell Dimension 4300 - NIC module dmfe missing
Posted by dowdle on Mon, 12 Dec 2005 16:01:07 GMT
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The kernel I'm using the latest/greatest (at time of writing):
2.6.8-022stab050.1

Ok, followed your advice and tulip driver seems to be working... especially since I turned off iptables on the hardware host.

Thanks for your assistance.

Subject: Re: Dell Dimension 4300 - NIC module dmfe missing
Posted by kir on Mon, 12 Dec 2005 16:05:13 GMT
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As for iptables, the reason is stateful rules - you need to remove them from config (/etc/sysconfig/iptables). Quoting the FAQ:

Quote:Q. My node is unaccessible through the network after reboot...

A. You need to check your firewall rules. The problem is that default stateful firewall rules are not available on the host system. To make this functionality available, load the ip_conntrack module with the additional parameter "ip_conntrack_enable_ve0=1". However, this method is highly not recommended because tracking all the connection on the host system lead to performance degradation, more memory usage and also may lead to the total server inaccessibility due to reaching of the overall connection limit.