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Subject: NIC problem with openvz patched kernel  
Posted by [piavlo](#) on Mon, 12 Feb 2007 00:24:52 GMT  
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Hi, I've compiled openvz kernel and booted it  
(no openvz configurations made ,just an openvz patched kernel)  
Now the problem is that the network card is half functioning  
I see that hosts on the lan see the packets transmitted  
by ty the NIC , but the NIC (or Tthe OS) itself does not recieve any packets.  
I've played with kernel configuration by disabling/changing  
the (openvz ,NIC drivers,DMA engines) kernel configuration to no avail.

It's a gentoo system with linux-2.6.18-openvz-028.010  
NIC :Intel Corporation PRO/1000 EB Network Connection with I/O Acceleration

Any ideas?

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Subject: Re: NIC problem with openvz patched kernel  
Posted by [Vasily Tarasov](#) on Mon, 12 Feb 2007 09:17:55 GMT  
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Hello,

Have you used .config file from openvz.org while compiling kernel?  
If no, please attach you .config. The second question, does your NIC work normally on 2.6.18  
vanilla kernel?

Thanks,  
Vasily.

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Subject: Re: NIC problem with openvz patched kernel  
Posted by [piavlo](#) on Mon, 12 Feb 2007 10:17:04 GMT  
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Vasily Tarasov wrote on Mon, 12 February 2007 11:17Hello,

Have you used .config file from openvz.org while compiling kernel?  
If no, please attach you .config. The second question, does your NIC work normally on 2.6.18  
vanilla kernel?

Thanks,  
Vasily.

Hi Vasily,

I've used my own config, it's attached.  
The NIC works ok with all other kernel including 2.6.18  
The box has Intel E5100 server chipset.

## File Attachments

1) [linux-2.6.18-openvz-028.010-config-gentoo](#), downloaded 365 times

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Subject: Re: NIC problem with openvz patched kernel  
Posted by [Vasily Tarasov](#) on Mon, 12 Feb 2007 11:02:36 GMT  
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OpenVZ kernels of 028test series use the same drivers, that are in 2.6.18 vanilla, so it's much more likely not kernel problem, but something wrong in configuration...

Can you explain, please, how do you observe this "half functioning" by examples of real commands and their output.

Also, please, provide `lspci` and `lspci -n` output.

Thank you!

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Subject: Re: NIC problem with openvz patched kernel  
Posted by [piavlo](#) on Mon, 12 Feb 2007 12:43:00 GMT  
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Hi, What i mean by half functioning is if i UP the eth device with static ip, then i ping other hosts on the LAN, the hosts see the packets from openvz and send back replies, but the openvz system does not see their replies. The same then starting eth with dhcp, the dhcp server sends back dhcp offer , but openvz system does not see these packets.

Below is lspci output you asked, but it is not from openvz booted kernel.

```
#lspci
00:00.0 Host bridge: Intel Corporation E7520 Memory Controller Hub (rev 09)
00:02.0 PCI bridge: Intel Corporation E7525/E7520/E7320 PCI Express Port A (rev 09)
00:04.0 PCI bridge: Intel Corporation E7525/E7520 PCI Express Port B (rev 09)
00:06.0 PCI bridge: Intel Corporation E7520 PCI Express Port C (rev 09)
00:1d.0 USB Controller: Intel Corporation 82801EB/ER (ICH5/ICH5R) USB UHCI Controller #1 (rev 02)
00:1d.1 USB Controller: Intel Corporation 82801EB/ER (ICH5/ICH5R) USB UHCI Controller #2 (rev 02)
00:1d.2 USB Controller: Intel Corporation 82801EB/ER (ICH5/ICH5R) USB UHCI Controller #3 (rev 02)
```

00:1d.7 USB Controller: Intel Corporation 82801EB/ER (ICH5/ICH5R) USB2 EHCI Controller (rev 02)  
00:1e.0 PCI bridge: Intel Corporation 82801 PCI Bridge (rev c2)  
00:1f.0 ISA bridge: Intel Corporation 82801EB/ER (ICH5/ICH5R) LPC Interface Bridge (rev 02)  
00:1f.1 IDE interface: Intel Corporation 82801EB/ER (ICH5/ICH5R) IDE Controller (rev 02)  
00:1f.2 IDE interface: Intel Corporation 82801EB (ICH5) SATA Controller (rev 02)  
01:00.0 PCI bridge: Intel Corporation 6700PXH PCI Express-to-PCI Bridge A (rev 09)  
01:00.2 PCI bridge: Intel Corporation 6700PXH PCI Express-to-PCI Bridge B (rev 09)  
02:04.0 SCSI storage controller: LSI Logic / Symbios Logic 53c1030 PCI-X Fusion-MPT Dual Ultra320 SCSI (rev 08)  
02:05.0 Ethernet controller: 3Com Corporation 3c940 10/100/1000Base-T [Marvell] (rev 10)  
03:07.0 Ethernet controller: Intel Corporation 82541GI/PI Gigabit Ethernet Controller (rev 05)  
03:09.0 RAID bus controller: Adaptec AAC-RAID (rev 01)  
06:05.0 VGA compatible controller: ATI Technologies Inc Radeon RV100 QY [Radeon 7000/VE]

# lspci -n

00:00.0 0600: 8086:3590 (rev 09)  
00:02.0 0604: 8086:3595 (rev 09)  
00:04.0 0604: 8086:3597 (rev 09)  
00:06.0 0604: 8086:3599 (rev 09)  
00:1d.0 0c03: 8086:24d2 (rev 02)  
00:1d.1 0c03: 8086:24d4 (rev 02)  
00:1d.2 0c03: 8086:24d7 (rev 02)  
00:1d.7 0c03: 8086:24dd (rev 02)  
00:1e.0 0604: 8086:244e (rev c2)  
00:1f.0 0601: 8086:24d0 (rev 02)  
00:1f.1 0101: 8086:24db (rev 02)  
00:1f.2 0101: 8086:24d1 (rev 02)  
01:00.0 0604: 8086:0329 (rev 09)  
01:00.2 0604: 8086:032a (rev 09)  
02:04.0 0100: 1000:0030 (rev 08)  
02:05.0 0200: 10b7:1700 (rev 10)  
03:07.0 0200: 8086:1076 (rev 05)  
03:09.0 0104: 9005:0285 (rev 01)  
06:05.0 0300: 1002:5159

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Subject: Re: NIC problem with openvz patched kernel  
Posted by [Vasily Tarasov](#) on Mon, 12 Feb 2007 13:09:34 GMT  
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is firewall off?  
do you use SELinux or alike?  
On what stage OpenVZ system does not see back packets?  
I mean, for example, does tcpdump show incoming packets?

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Subject: Re: NIC problem with openvz patched kernel  
Posted by [piavlo](#) on Mon, 12 Feb 2007 17:33:06 GMT  
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Vasily Tarasov wrote on Mon, 12 February 2007 15:09: is firewall off?  
do you use SELinux or alike?  
On what stage OpenVZ system does not see back packets?  
I mean, for example, does tcpdump show incoming packets?

No firewall or any other security system enabled.  
I've checked with tcpdump originally, and it does not see the incoming packets, while other LAN hosts see the outgoing packets from the openvz system and send back replies.

Thanks

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Subject: Re: NIC problem with openvz patched kernel  
Posted by [piavlo](#) on Wed, 14 Feb 2007 13:24:51 GMT  
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piavlo wrote on Mon, 12 February 2007 19:33: Vasily Tarasov wrote on Mon, 12 February 2007 15:09: is firewall off?  
do you use SELinux or alike?  
On what stage OpenVZ system does not see back packets?  
I mean, for example, does tcpdump show incoming packets?

No firewall or any other security system enabled.  
I've checked with tcpdump originally, and it does not see the incoming packets, while other LAN hosts see the outgoing packets from the openvz system and send back replies.

Thanks

Any suggestions?

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Subject: Re: NIC problem with openvz patched kernel  
Posted by [dev](#) on Wed, 14 Feb 2007 15:27:54 GMT  
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hmmm... maybe the problem somehow is related to "I/O Acceleration"? is it possible to turn it off?

suggestions:

1. check mainstream 2.6.18 kernel with gentoo config.
2. check mainstream 2.6.18 kernel with openvz config.

3. if both (1) and (2) doesn't work - discard sysctl.conf changes for OpenVZ.
  4. if (1) works, but (2) doesn't - problem in config.
  5. if (1) works and (2) works - problem in OVZ patches.?
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