
Subject: *SOLVED* OpenVZ: No driver for NIC RTL8111/8168B [solved]

Posted by [Kevin'Z](#) on Fri, 21 Dec 2007 17:14:06 GMT

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Dear Community,

I've got a server with a Realtek NIC:

Ethernet controller: Realtek Semiconductor Co., Ltd. RTL8111/8168B PCI Express Gigabit

Ethernet controller (rev 01)

But the problem is, that the OpenVZ Kernel 2.6.18 (actual revision 51) has no support for this NIC.
VServer sources (2.6.20) and normal sources (2.6.23) works quite well.

(All kernels are compiled by myself and based on the same config)

I would prefer OpenVZ instead of VServer, but a server is not very useful without an ethernet connection .

Is there any way to get the NIC working in OpenVZ?

Thanks a lot for answers,

Kevin

Subject: Re: OpenVZ: No driver for NIC RTL8111/8168B

Posted by [curx](#) on Fri, 21 Dec 2007 17:55:03 GMT

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Hi,

Get the src code from realtek (->

<http://www.realtek.com.tw/downloads/downloadsView.aspx?Langi>

[d=1&PNid=13&PFid=5&Level=5&Conn=4&DownTy peID=3&GetDown=false#2](#))

and build the kernel module for your kernel.

Subject: Re: OpenVZ: No driver for NIC RTL8111/8168B

Posted by [vaverin](#) on Fri, 21 Dec 2007 19:09:28 GMT

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Kevin,

we need to know PCI ID numbers for Your card, could you please provide 'lspci -n' output from Your node?

Also I would like clarify: do you use rhel5-based kernel or mainstream-based 2.6.18? I would note that rhel5-based kernels have updated drivers, and probably it already support Your NIC.

thank You,
Vasily Averin

Subject: Re: OpenVZ: No driver for NIC RTL8111/8168B
Posted by [dermax](#) on Fri, 21 Dec 2007 20:31:08 GMT
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Hi,

I do have the same NIC, heres the lspci -n output:

04:00.0 0200: 10ec:8168 (rev 01)

Thanks!

edit:

I have just tested the kernel 2.6.18-ovz-028stab051.1-smp from the [debian.systc.org](#) repository, it works flawlessly with *my* card - though I doubt that we're not talking about the same one.

Subject: Re: OpenVZ: No driver for NIC RTL8111/8168B
Posted by [Kevin'Z](#) on Sat, 22 Dec 2007 18:34:06 GMT
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Hi,

thanks for your answer. I'm using gentoo and I used the latest ebuild for the OpenVZ kernel (2.6.18.028.051).

I will now try to compile the module from the realtek website.

Regards,

Kevin

Subject: Re: OpenVZ: No driver for NIC RTL8111/8168B
Posted by [Kevin'Z](#) on Mon, 24 Dec 2007 13:09:01 GMT
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Thank you, using the driver from the realtek website works.
The only problem was, that the makefile use the currently running kernelversion for the library directory (in my case a rescue system), that is different from the kernelversion in the normal system. I had to modifie this file:
src/Makefile

```
#OLD:
KVER      := $(shell uname -r)
# TO NEW:
KVER      :=2.6.18-028stab051

#its used for:
KDIR      := /lib/modules/$(KVER)/build
KMISC     := /lib/modules/$(KVER)/kernel/drivers/net/
```

(Maybe it can help someone other.)

Subject: Re: OpenVZ: No driver for NIC RTL8111/8168B
Posted by [curx](#) on Mon, 24 Dec 2007 15:43:38 GMT
[View Forum Message](#) <> [Reply to Message](#)

Hi,

in enpacked src:

```
# make KDIR=<kernel_dir> modules
```

help without editing the Makefile!

Subject: Re: *SOLVED* OpenVZ: No driver for NIC RTL8111/8168B [solved]
Posted by [abdicar](#) on Sat, 03 Apr 2010 15:52:00 GMT
[View Forum Message](#) <> [Reply to Message](#)

```
"# make KDIR=<kernel_dir> modules"
```

How I can get the path of the kernel dir?

Subject: Re: *SOLVED* OpenVZ: No driver for NIC RTL8111/8168B [solved]
Posted by [curx](#) on Sat, 03 Apr 2010 17:15:25 GMT
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plz post what distribtion is used on your ct0 (=hardwarenode)

Bye,
Thorsten

Subject: Re: *SOLVED* OpenVZ: No driver for NIC RTL8111/8168B [solved]
Posted by [abdicar](#) on Sat, 03 Apr 2010 17:32:39 GMT
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CentOS 5.4 32bits, default ovz kernel. ATOM 2GB RAM, soft raid 1 2 x 500GB.

Subject: Re: *SOLVED* OpenVZ: No driver for NIC RTL8111/8168B [solved]
Posted by [curx](#) on Sat, 03 Apr 2010 17:57:26 GMT
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you need to install the ovzkernel-devel package as well, the header files are located at
/lib/modules/<kernel_ver>/build symlink to /usr/src/<kernel_ver>

028stab068.9 :

<http://download.openvz.org/kernel/branches/rhel5-2.6.18/028stab068.9/ovzkernel-devel-2.6.18-164.15.1.el5.028stab068.9.i686.rpm>

Bye,
Thorsten

Subject: Re: *SOLVED* OpenVZ: No driver for NIC RTL8111/8168B [solved]
Posted by [abdicar](#) on Sat, 03 Apr 2010 18:04:53 GMT
[View Forum Message](#) <> [Reply to Message](#)

Ok, i'm doing another fresh install on this machine to do all from zero and see if all it is working properly. I will try with your instructions (thank you in advanced!) and I will update this ticket in order to have a full reference how to make this works. I think if we can fix the issue, it will help to another in the community.

Subject: Re: *SOLVED* OpenVZ: No driver for NIC RTL8111/8168B [solved]
Posted by [abdicar](#) on Sat, 03 Apr 2010 19:50:02 GMT
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Ok, Here we go.

BEFORE KERNEL UPDATE

Quote:[root@22491 ~]# cat /proc/mdstat
Personalities : [raid1]
md1 : active raid1 sdb3[1] sda3[0]
479998016 blocks [2/2] [UU]

md0 : active raid1 sdb1[1] sda1[0]

4192832 blocks [2/2] [UU]

unused devices: <none>

[root@22491 ~]# free -m

	total	used	free	shared	buffers	cached
Mem:	2010	336	1674	0	20	180
-/+ buffers/cache:		134	1875			
Swap:	8189	0	8189			

[root@22491 ~]# cat /etc/redhat-release

CentOS release 5.4 (Final)

[root@22491 ~]# uname -a

Linux 22491.server.local 2.6.18-164.15.1.el5PAE #1 SMP Wed Mar 17 12:14:29 EDT 2010 i686
i686 i386 GNU/Linux

[root@22491 ~]# df -h

Filesystem	Size	Used	Avail	Use%	Mounted on
/dev/md0	3.9G	1.3G	2.5G	35%	/
/dev/md1	444G	199M	421G	1%	/vz
tmpfs	1006M	0	1006M	0%	/dev/shm

[root@22491 ~]# cat /proc/cpuinfo

processor : 0
vendor_id : GenuineIntel
cpu family : 6
model : 28
model name : Intel(R) Atom(TM) CPU D510 @ 1.66GHz
stepping : 10
cpu MHz : 1666.746
cache size : 512 KB
physical id : 0
siblings : 4
core id : 0
cpu cores : 2
apicid : 0
fdiv_bug : no
hlt_bug : no
f00f_bug : no
coma_bug : no
fpu : yes
fpu_exception : yes
cpuid level : 10
wp : yes
flags : fpu vme de pse tsc msr pae mce cx8 apic sep mtrr pge mca cmov pat pse36 clflush
dts acpi mmx fxsr sse sse2 ss ht tm pbe nx lm constant_tsc pni monitor ds_cpl tm2 ssse3 cx16
xtpr lahf_lm
bogomips : 3333.49

processor : 1
vendor_id : GenuineIntel
cpu family : 6

model : 28
model name : Intel(R) Atom(TM) CPU D510 @ 1.66GHz
stepping : 10
cpu MHz : 1666.746
cache size : 512 KB
physical id : 0
siblings : 4
core id : 0
cpu cores : 2
apicid : 1
fdiv_bug : no
hlt_bug : no
f00f_bug : no
coma_bug : no
fpu : yes
fpu_exception : yes
cpuid level : 10
wp : yes
flags : fpu vme de pse tsc msr pae mce cx8 apic sep mtrr pge mca cmov pat pse36 clflush
dts acpi mmx fxsr sse sse2 ss ht tm pbe nx lm constant_tsc pni monitor ds_cpl tm2 ssse3 cx16
xtpr lahf_lm
bogomips : 3466.70

processor : 2
vendor_id : GenuineIntel
cpu family : 6
model : 28
model name : Intel(R) Atom(TM) CPU D510 @ 1.66GHz
stepping : 10
cpu MHz : 1666.746
cache size : 512 KB
physical id : 0
siblings : 4
core id : 1
cpu cores : 2
apicid : 2
fdiv_bug : no
hlt_bug : no
f00f_bug : no
coma_bug : no
fpu : yes
fpu_exception : yes
cpuid level : 10
wp : yes
flags : fpu vme de pse tsc msr pae mce cx8 apic sep mtrr pge mca cmov pat pse36 clflush
dts acpi mmx fxsr sse sse2 ss ht tm pbe nx lm constant_tsc pni monitor ds_cpl tm2 ssse3 cx16
xtpr lahf_lm
bogomips : 3333.19

```
processor      : 3
vendor_id     : GenuineIntel
cpu family    : 6
model         : 28
model name    : Intel(R) Atom(TM) CPU D510  @ 1.66GHz
stepping      : 10
cpu MHz       : 1666.746
cache size    : 512 KB
physical id    : 0
siblings      : 4
core id       : 1
cpu cores     : 2
apicid        : 3
fdiv_bug      : no
hlt_bug       : no
f00f_bug      : no
coma_bug      : no
fpu           : yes
fpu_exception : yes
cpuid level    : 10
wp            : yes
flags         : fpu vme de pse tsc msr pae mce cx8 apic sep mtrr pge mca cmov pat pse36 clflush
dts acpi mmx fxsr sse sse2 ss ht tm pbe nx lm constant_tsc pni monitor ds_cpl tm2 ssse3 cx16
xtpr lahf_lm
bogomips      : 3333.15
```

```
[root@22491 ~]#
```

Now the result from `lspci -vv`

Quote:01:00.0 Ethernet controller: Realtek Semiconductor Co., Ltd. RTL8111/8168B PCI Express Gigabit Ethernet controller (rev 03)

Subsystem: Intel Corporation Unknown device d615

Control: I/O+ Mem+ BusMaster+ SpecCycle- MemWINV- VGASnoop- ParErr- Stepping- SERR- FastB2B-

Status: Cap+ 66MHz- UDF- FastB2B- ParErr- DEVSEL=fast >TAbort- <TAbort- <MAbort- >SERR- <PERR-

Latency: 0, Cache Line Size: 64 bytes

Interrupt: pin A routed to IRQ 58

Region 0: I/O ports at 1000 [size=256]

Region 2: Memory at e0004000 (64-bit, prefetchable) [size=4K]

Region 4: Memory at e0000000 (64-bit, prefetchable) [size=16K]

Expansion ROM at e0020000 [disabled] [size=128K]

Capabilities: [40] Power Management version 3

Flags: PMEClk- DSI- D1+ D2+ AuxCurrent=375mA

PME(D0+,D1+,D2+,D3hot+,D3cold+)

Status: D0 PME-Enable- DSel=0 DScale=0 PME-

Capabilities: [50] Message Signalled Interrupts: 64bit+ Queue=0/0 Enable+
Address: 00000000fee03000 Data: 403a
Capabilities: [70] Express Endpoint IRQ 1
Device: Supported: MaxPayload 256 bytes, PhantFunc 0, ExtTag-
Device: Latency L0s <512ns, L1 <64us
Device: AtnBtn- AtnInd- PwrInd-
Device: Errors: Correctable- Non-Fatal- Fatal- Unsupported-
Device: RlxdOrd+ ExtTag- PhantFunc- AuxPwr- NoSnoop-
Device: MaxPayload 128 bytes, MaxReadReq 4096 bytes
Link: Supported Speed 2.5Gb/s, Width x1, ASPM L0s L1, Port 0
Link: Latency L0s <512ns, L1 <64us
Link: ASPM Disabled RCB 64 bytes CommClk- ExtSynch-
Link: Speed 2.5Gb/s, Width x1
Capabilities: [ac] MSI-X: Enable- Mask- TabSize=4
Vector table: BAR=4 offset=00000000
PBA: BAR=4 offset=00000800
Capabilities: [cc] Vital Product Data
Capabilities: [100] Advanced Error Reporting
Capabilities: [140] Virtual Channel
Capabilities: [160] Device Serial Number 00-e0-4c-68-00-00-00-03

Ok, now I'm going to install the ovzkernel.i686 0:2.6.18-164.15.1.el5.028stab068.9 and ovzkernel-devel.i686 0:2.6.18-164.15.1.el5.028stab068.9.

Ok, both installed.

```
Quote:[root@22491 ~]# rpm -qa | grep ovz
ovzkernel-2.6.18-164.15.1.el5.028stab068.9
ovzkernel-devel-2.6.18-164.15.1.el5.028stab068.9
[root@22491 ~]#
```

Now I edit the /boot/grub/grub.conf.

```
Quote:# grub.conf generated by anaconda
#
# Note that you do not have to rerun grub after making changes to this file
# NOTICE: You do not have a /boot partition. This means that
#         all kernel and initrd paths are relative to /, eg.
#         root (hd0,0)
#         kernel /boot/vmlinuz-version ro root=/dev/md0
#         initrd /boot/initrd-version.img
#boot=/dev/sda
default=0
timeout=5
splashimage=(hd0,0)/boot/grub/splash.xpm.gz
hiddenmenu
title OpenVZ (2.6.18-164.15.1.el5.028stab068.9)
    root (hd0,0)
```



```

        kernel /boot/vmlinuz-2.6.18-164.15.1.el5.028stab068.9 ro root=/dev/md0
        initrd /boot/initrd-2.6.18-164.15.1.el5.028stab068.9.img
title CentOS (2.6.18-164.15.1.el5PAE)
    root (hd0,0)
    kernel /boot/vmlinuz-2.6.18-164.15.1.el5PAE ro root=/dev/md0
    initrd /boot/initrd-2.6.18-164.15.1.el5PAE.img
title CentOS (2.6.18-164.15.1.el5)
    root (hd0,0)
    kernel /boot/vmlinuz-2.6.18-164.15.1.el5 ro root=/dev/md0
    initrd /boot/initrd-2.6.18-164.15.1.el5.img
title CentOS (2.6.18-164.el5PAE)
    root (hd0,0)
    kernel /boot/vmlinuz-2.6.18-164.el5PAE ro root=/dev/md0
    initrd /boot/initrd-2.6.18-164.el5PAE.img
title CentOS-base (2.6.18-164.el5)
    root (hd0,0)
    kernel /boot/vmlinuz-2.6.18-164.el5 ro root=/dev/md0
    initrd /boot/initrd-2.6.18-164.el5.img

```

Now sysctl edited.

Quote:# Kernel sysctl configuration file for Red Hat Linux

```

#
# For binary values, 0 is disabled, 1 is enabled.  See sysctl( and
# sysctl.conf(5) for more details.

```

```

# Controls IP packet forwarding
net.ipv4.ip_forward = 1
net.ipv6.conf.default.forwarding = 1
net.ipv6.conf.all.forwarding = 1
net.ipv4.conf.default.proxy_arp = 0
net.ipv4.conf.all.rp_filter = 1

```

```

# Controls source route verification
net.ipv4.conf.default.rp_filter = 1

```

```

# Do not accept source routing
net.ipv4.conf.default.accept_source_route = 0

```

```

# Controls the System Request debugging functionality of the kernel
kernel.sysrq = 1

```

```

# We do not want all our interfaces to send redirects
net.ipv4.conf.default.send_redirects = 1
net.ipv4.conf.all.send_redirects = 0

```

```

# Controls whether core dumps will append the PID to the core filename
# Useful for debugging multi-threaded applications

```

```
kernel.core_uses_pid = 1
```

```
# Controls the use of TCP syncookies  
net.ipv4.tcp_syncookies = 1
```

```
# Controls the maximum size of a message, in bytes  
kernel.msgmnb = 65536
```

```
# Controls the default maximum size of a message queue  
kernel.msgmax = 65536
```

```
# Controls the maximum shared segment size, in bytes  
kernel.shmmax = 4294967295
```

```
# Controls the maximum number of shared memory segments, in pages  
kernel.shmall = 268435456
```

```
/etc/sysconfig/selinux
```

```
# This file controls the state of SELinux on the system.  
# SELINUX= can take one of these three values:  
#   enforcing - SELinux security policy is enforced.  
#   permissive - SELinux prints warnings instead of enforcing.  
#   disabled - SELinux is fully disabled.  
SELINUX=disabled  
# SELINUXTYPE= type of policy in use. Possible values are:  
#   targeted - Only targeted network daemons are protected.  
#   strict - Full SELinux protection.  
SELINUXTYPE=targeted
```

```
# SETLOCALDEFS= Check local definition changes  
SETLOCALDEFS=0
```

After all correct... Lets reboot.

Quote:[root@22491 ~]# reboot

Broadcast message from root (pts/1) (Sat Apr 3 21:37:11 2010):

The system is going down for reboot NOW!
[root@22491 ~]#

Ok, after reboot, it come online fine...

```
lspci -vv
```

Quote:01:00.0 Ethernet controller: Realtek Semiconductor Co., Ltd. RTL8111/8168B PCI Express Gigabit Ethernet controller (rev 03)

Subsystem: Intel Corporation Unknown device d615
Control: I/O+ Mem+ BusMaster+ SpecCycle- MemWINV- VGASnoop- ParErr- Stepping-
SERR- FastB2B-
Status: Cap+ 66MHz- UDF- FastB2B- ParErr- DEVSEL=fast >TAbort- <TAbort- <MAbort-
>SERR- <PERR-
Latency: 0, Cache Line Size: 64 bytes
Interrupt: pin A routed to IRQ 58
Region 0: I/O ports at 1000 [size=256]
Region 2: Memory at e0004000 (64-bit, prefetchable) [size=4K]
Region 4: Memory at e0000000 (64-bit, prefetchable) [size=16K]
Expansion ROM at e0020000 [disabled] [size=128K]
Capabilities: [40] Power Management version 3
Flags: PMEClk- DSI- D1+ D2+ AuxCurrent=375mA
PME(D0+,D1+,D2+,D3hot+,D3cold+)
Status: D0 PME-Enable- DSel=0 DScale=0 PME-
Capabilities: [50] Message Signalled Interrupts: 64bit+ Queue=0/0 Enable+
Address: 00000000fee03000 Data: 403a
Capabilities: [70] Express Endpoint IRQ 1
Device: Supported: MaxPayload 256 bytes, PhantFunc 0, ExtTag-
Device: Latency L0s <512ns, L1 <64us
Device: AtnBtn- AtnInd- PwrInd-
Device: Errors: Correctable- Non-Fatal- Fatal- Unsupported-
Device: RlxdOrd+ ExtTag- PhantFunc- AuxPwr- NoSnoop-
Device: MaxPayload 128 bytes, MaxReadReq 4096 bytes
Link: Supported Speed 2.5Gb/s, Width x1, ASPM L0s L1, Port 0
Link: Latency L0s <512ns, L1 <64us
Link: ASPM Disabled RCB 64 bytes CommClk- ExtSynch-
Link: Speed 2.5Gb/s, Width x1
Capabilities: [ac] MSI-X: Enable- Mask- TabSize=4
Vector table: BAR=4 offset=00000000
PBA: BAR=4 offset=00000800

and other test...

Quote:[root@22491 ~]# mii-tool
eth0: negotiated 10baseT-FD, link ok
[root@22491 ~]# eth
ether-wake ethtool
[root@22491 ~]# ethtool eth0
Settings for eth0:
Supported ports: [TP MII]
Supported link modes: 10baseT/Half 10baseT/Full
100baseT/Half 100baseT/Full
1000baseT/Half 1000baseT/Full
Supports auto-negotiation: Yes
Advertised link modes: 10baseT/Half 10baseT/Full
100baseT/Half 100baseT/Full
1000baseT/Half 1000baseT/Full
Advertised auto-negotiation: Yes

Speed: 10Mb/s
Duplex: Full
Port: MII
PHYAD: 0
Transceiver: internal
Auto-negotiation: on
Supports Wake-on: pumbg
Wake-on: g
Current message level: 0x00000033 (51)
Link detected: yes

[root@22491 ~]#

Looks now the only different is that in the new kernel we lose this part:

Quote:Capabilities: [cc] Vital Product Data
Capabilities: [100] Advanced Error Reporting
Capabilities: [140] Virtual Channel
Capabilities: [160] Device Serial Number 00-e0-4c-68-00-00-00-03

Connection test:

Quote:[root@22491 ~]# ping yahoo.com
PING yahoo.com (67.195.160.76) 56(84) bytes of data.
64 bytes from ir1.fp.vip.ac4.yahoo.com (67.195.160.76): icmp_seq=1 ttl=55 time=86.2 ms
64 bytes from ir1.fp.vip.ac4.yahoo.com (67.195.160.76): icmp_seq=2 ttl=55 time=80.6 ms

[1]+ Stopped ping yahoo.com
[root@22491 ~]# host google.com
google.com has address 74.125.67.105
google.com has address 74.125.67.106
google.com has address 74.125.67.147
google.com has address 74.125.67.99
google.com has address 74.125.67.103
google.com has address 74.125.67.104
google.com mail is handled by 100 google.com.s9a1.psmtp.com.
google.com mail is handled by 200 google.com.s9a2.psmtp.com.
google.com mail is handled by 300 google.com.s9b1.psmtp.com.
google.com mail is handled by 400 google.com.s9b2.psmtp.com.
[root@22491 ~]#
[root@22491 ~]# mii-tool
eth0: negotiated 10baseT-FD, link ok
[root@22491 ~]#

Ok, now I should install the rest of openvz or I should upgrade the driver by now?

I think I will install the openvz to test if the error is still there.

Subject: Re: *SOLVED* OpenVZ: No driver for NIC RTL8111/8168B [solved]
Posted by [abdicar](#) on Sat, 03 Apr 2010 20:14:53 GMT
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Ok, installing...

```
Quote:[root@22491 ~]# yum install vzctl vzquota
Loaded plugins: fastestmirror
Loading mirror speeds from cached hostfile
* addons: mirrordenvr.fdcservers.net
* base: mirrordenvr.fdcservers.net
* extras: mirrordenvr.fdcservers.net
* openvz-kernel-rhel5: mirrors.igsobe.com
* openvz-utils: mirrors.igsobe.com
* updates: mirrordenvr.fdcservers.net
Setting up Install Process
Resolving Dependencies
--> Running transaction check
---> Package vzctl.i386 0:3.0.23-1 set to be updated
--> Processing Dependency: vzctl-lib = 3.0.23-1 for package: vzctl
--> Processing Dependency: libvzctl-0.0.2.so for package: vzctl
---> Package vzquota.i386 0:3.0.12-1 set to be updated
--> Running transaction check
---> Package vzctl-lib.i386 0:3.0.23-1 set to be updated
--> Finished Dependency Resolution
```

Dependencies Resolved

```
=====
=====
=====
Package                               Arch      Version      Repository
  Size
=====
=====
=====
Installing:
vzctl                                i386      3.0.23-1      openvz-utils
 143 k
vzquota                             i386      3.0.12-1      openvz-utils
  82 k
Installing for dependencies:
vzctl-lib                             i386      3.0.23-1      openvz-utils
 175 k
```

Transaction Summary

```
=====
=====
=====
```

Install 3 Package(s)
Update 0 Package(s)
Remove 0 Package(s)

Total download size: 400 k

Is this ok [y/N]: y

Downloading Packages:

http://mirrors.igsobe.com/opensvcurrent/vzquota-3.0.12-1.i386.rpm: [Errno 14] HTTP Error 404:
Not Found

Trying other mirror.

(1/3): vzquota-3.0.12-1.i386.rpm	
82 kB 00:00	
(2/3): vzctl-3.0.23-1.i386.rpm	143
kB 00:00	
(3/3): vzctl-lib-3.0.23-1.i386.rpm	175
kB 00:00	

Total 198 kB/s | 400 kB
00:02

Running rpm_check_debug

Running Transaction Test

Finished Transaction Test

Transaction Test Succeeded

Running Transaction

Installing : vzctl-lib

1/3

Installing : vzquota

2/3

Installing : vzctl

3/3

Installed:

vzctl.i386 0:3.0.23-1 vzquota.i386 0:3.0.12-1

Dependency Installed:

vzctl-lib.i386 0:3.0.23-1

Complete!

[root@22491 ~]# /sbin/service vz start

Starting OpenVZ: [OK]

Bringing up interface venet0: [OK]

Configuring interface venet0: [OK]

[root@22491 ~]#

ok now, lets create a demo container...

Quote:[root@22491 cache]# wget http://download.openvz.org/template/precreated/centos-5-x86.

```
tar.gz
--2010-04-03 22:03:04-- http://download.openvz.org/template/precreated/centos-5-x86.tar.gz
Resolving download.openvz.org... 64.131.90.11
Connecting to download.openvz.org[64.131.90.11]:80... connected.
HTTP request sent, awaiting response... 200 OK
Length: 179985449 (172M) [application/x-gzip]
Saving to: `centos-5-x86.tar.gz'
```

```
100%[=====
===== >] 179,985,449
1.12M/s in 2m 34s
```

```
2010-04-03 22:05:38 (1.11 MB/s) - `centos-5-x86.tar.gz' saved [179985449/179985449]
```

```
[root@22491 cache]#
```

```
[root@22491 cache]# vzctl create 101 --ostemplate centos-5-x86
```

```
Unable to get full ostemplate name for centos-5-x86
```

```
Creating container private area (centos-5-x86)
```

```
Performing postcreate actions
```

```
Container private area was created
```

```
[root@22491 cache]# vzlist -a
```

CTID	NPROC	STATUS	IP_ADDR	HOSTNAME
101	-	stopped	-	

```
[root@22491 cache]# vzctl set 101 --ipadd x.73.100.179 --save
```

```
Saved parameters for CT 101
```

```
[root@22491 cache]# vzctl set 101 --nameserver 4.2.2.1 --save
```

```
Saved parameters for CT 101
```

```
[root@22491 cache]# vzctl start 101
```

```
Starting container ...
```

```
Container is mounted
```

```
Adding IP address(es): x.73.100.179
```

```
Setting CPU units: 1000
```

```
Configure meminfo: 65536
```

```
File resolv.conf was modified
```

```
Container start in progress...
```

```
[root@22491 cache]# ping x.73.100.179
```

```
PING x.73.100.179 (x.73.100.179) 56(84) bytes of data.
```

```
64 bytes from x.73.100.179: icmp_seq=1 ttl=64 time=0.073 ms
```

```
64 bytes from x.73.100.179: icmp_seq=2 ttl=64 time=0.046 ms
```

```
[3]+ Stopped ping x.73.100.179
```

```
[root@22491 cache]# vzctl -a
```

```
Bad command: -a
```

```
[root@22491 cache]# vzlist -a
```

CTID	NPROC	STATUS	IP_ADDR	HOSTNAME
101	8	running	x.73.100.179	-

```
[root@22491 cache]# vzctl set 101 --hostname ns01.test.com --save
Set hostname: ns01.test.com
Saved parameters for CT 101
[root@22491 cache]# vzctl enter 101
entered into CT 101
[root@ns01 /]# hostname
ns01.test.com
[root@ns01 /]# hostname -i
x.73.100.179
```

Ok, Now; all start to failed.

Quote:[root@ns01 /]# ping www.yahoo.com

```
[1]+  Stopped                  ping www.yahoo.com
[root@ns01 /]# mii-tool
SIOCGMIIPHY on 'eth0' failed: Operation not permitted
SIOCGMIIPHY on 'eth1' failed: Operation not permitted
SIOCGMIIPHY on 'eth2' failed: Operation not permitted
SIOCGMIIPHY on 'eth3' failed: Operation not permitted
SIOCGMIIPHY on 'eth4' failed: Operation not permitted
SIOCGMIIPHY on 'eth5' failed: Operation not permitted
SIOCGMIIPHY on 'eth6' failed: Operation not permitted
SIOCGMIIPHY on 'eth7' failed: Operation not permitted
no MII interfaces found
[root@ns01 /]# ethtool eth0
Settings for eth0:
Cannot get device settings: No such device
Cannot get wake-on-lan settings: No such device
Cannot get message level: No such device
Cannot get link status: No such device
No data available
[root@ns01 /]# ifconfig /all
/all: error fetching interface information: Device not found
[root@ns01 /]# service network restart
Shutting down interface venet0:          [ OK ]
Shutting down loopback interface:        [ OK ]
Bringing up loopback interface:          [ OK ]
Bringing up interface venet0: SIOCADDRT: Network is unreachable
                                         [ OK ]
[root@ns01 /]#
```

So, now? I should recompile the driver of the NIC or It is another problem?

Subject: Re: *SOLVED* OpenVZ: No driver for NIC RTL8111/8168B [solved]
Posted by [abdicar](#) on Sat, 03 Apr 2010 20:24:14 GMT

I dont know what i should do now... the system show that i'm running the driver in the rev03.

01:00.0 Ethernet controller: Realtek Semiconductor Co., Ltd. RTL8111/8168B PCI Express Gigabit Ethernet controller (rev 03)

Subsystem: Intel Corporation Unknown device d615

Control: I/O+ Mem+ BusMaster+ SpecCycle- MemWINV- VGASnoop- ParErr- Stepping- SERR- FastB2B-

Status: Cap+ 66MHz- UDF- FastB2B- ParErr- DEVSEL=fast >TAbort- <TAbort- <MAbort- >SERR- <PERR-

Latency: 0, Cache Line Size: 64 bytes

Interrupt: pin A routed to IRQ 58

Region 0: I/O ports at 1000 [size=256]

Region 2: Memory at e0004000 (64-bit, prefetchable) [size=4K]

Region 4: Memory at e0000000 (64-bit, prefetchable) [size=16K]

Expansion ROM at e0020000 [disabled] [size=128K]

Capabilities: [40] Power Management version 3

Flags: PMEClk- DSI- D1+ D2+ AuxCurrent=375mA

PME(D0+,D1+,D2+,D3hot+,D3cold+)

Status: D0 PME-Enable- DSel=0 DScale=0 PME-

Capabilities: [50] Message Signalled Interrupts: 64bit+ Queue=0/0 Enable+

Address: 00000000fee03000 Data: 403a

Capabilities: [70] Express Endpoint IRQ 1

Device: Supported: MaxPayload 256 bytes, PhantFunc 0, ExtTag-

Device: Latency L0s <512ns, L1 <64us

Device: AtnBtn- AtnInd- PwrInd-

Device: Errors: Correctable- Non-Fatal- Fatal- Unsupported-

Device: RlxdOrd+ ExtTag- PhantFunc- AuxPwr- NoSnoop-

Device: MaxPayload 128 bytes, MaxReadReq 4096 bytes

Link: Supported Speed 2.5Gb/s, Width x1, ASPM L0s L1, Port 0

Link: Latency L0s <512ns, L1 <64us

Link: ASPM Disabled RCB 64 bytes CommClk- ExtSynch-

Link: Speed 2.5Gb/s, Width x1

Capabilities: [ac] MSI-X: Enable- Mask- TabSize=4

Vector table: BAR=4 offset=00000000

PBA: BAR=4 offset=00000800

Capabilities: [cc] Vital Product Data

Capabilities: [100] Advanced Error Reporting

Capabilities: [140] Virtual Channel

Capabilities: [160] Device Serial Number 00-e0-4c-68-00-00-00-03

[root@22491 cache]# lspci -n

00:00.0 0600: 8086:a000 (rev 02)

00:02.0 0300: 8086:a001 (rev 02)

00:1c.0 0604: 8086:27d0 (rev 01)

00:1c.1 0604: 8086:27d2 (rev 01)

00:1c.2 0604: 8086:27d4 (rev 01)

00:1c.3 0604: 8086:27d6 (rev 01)

00:1d.0 0c03: 8086:27c8 (rev 01)
00:1d.1 0c03: 8086:27c9 (rev 01)
00:1d.2 0c03: 8086:27ca (rev 01)
00:1d.3 0c03: 8086:27cb (rev 01)
00:1d.7 0c03: 8086:27cc (rev 01)
00:1e.0 0604: 8086:2448 (rev e1)
00:1f.0 0601: 8086:27bc (rev 01)
00:1f.2 0101: 8086:27c0 (rev 01)
00:1f.3 0c05: 8086:27da (rev 01)
01:00.0 0200: 10ec:8168 (rev 03)

So it is updated... What I can do now?

Subject: Re: *SOLVED* OpenVZ: No driver for NIC RTL8111/8168B [solved]
Posted by [abdicar](#) on Sat, 03 Apr 2010 20:42:59 GMT

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Quote:[root@22491 ~]# wget http://www.abdicar.com/r8168-8.018.00.tar.bz2
--2010-04-03 22:32:06-- http://www.abdicar.com/r8168-8.018.00.tar.bz2
Resolving www.abdicar.com... 200.50.226.5
Connecting to www.abdicar.com|200.50.226.5|:80... connected.
HTTP request sent, awaiting response... 200 OK
Length: 49160 (48K) [application/x-bzip2]
Saving to: `r8168-8.018.00.tar.bz2'

```
100%[=====
===== >]
49,160    --.-K/s  in 0.04s
```

2010-04-03 22:32:06 (1.15 MB/s) - `r8168-8.018.00.tar.bz2' saved [49160/49160]

[root@22491 ~]# tar xvfz r8168-8.018.00.tar.bz2

gzip: stdin: not in gzip format
tar: Child returned status 1
tar: Error exit delayed from previous errors
[root@22491 ~]# tar xvz r8168-8.018.00.tar.bz2

[4]+ Stopped tar xvz r8168-8.018.00.tar.bz2
[root@22491 ~]# ls
lspci lspci_ovz r8168-8.018.00.tar.bz2
[root@22491 ~]# tar -xjvf r8168-8.018.00.tar.bz2
r8168-8.018.00/
r8168-8.018.00/Makefile
r8168-8.018.00/README
r8168-8.018.00/src/

```
r8168-8.018.00/src/rtl_eeprom.h
r8168-8.018.00/src/Makefile
r8168-8.018.00/src/r8168_asf.c
r8168-8.018.00/src/r8168.h
r8168-8.018.00/src/rtl_eeprom.c
r8168-8.018.00/src/r8168_asf.h
r8168-8.018.00/src/rtltool.h
r8168-8.018.00/src/r8168_n.c
r8168-8.018.00/src/Makefile_linux24x
r8168-8.018.00/autorun.sh
[root@22491 ~]# cd r8168-8.018.00/
[root@22491 r8168-8.018.00]# ls
autorun.sh Makefile README src
[root@22491 r8168-8.018.00]# nano README
[root@22491 r8168-8.018.00]#
```

```
[root@22491 r8168-8.018.00]# ./autorun.sh
```

Check old driver and unload it.

```
rmmod r8169
```

Build the module and install

```
/root/r8168-8.018.00/src/r8168_n.c: In function 'rtl8168_tx_clear':
```

```
/root/r8168-8.018.00/src/r8168_n.c:8073: warning: unused variable 'dev'
```

Backup r8169.ko

```
rename r8169.ko to r8169.bak
```

Depending module. Please wait.

```
load module r8168
```

Completed.

```
[root@22491 r8168-8.018.00]#
```

```
[root@22491 r8168-8.018.00]# mii-tool
```

```
eth0: negotiated 10baseT-FD, link ok
```

```
[root@22491 r8168-8.018.00]# service network restart
```

```
Shutting down interface eth0: [ OK ]
```

```
Shutting down interface venet0: Shutting down interface venet0:
[ OK ]
```

```
Shutting down loopback interface: [ OK ]
```

```
Disabling IPv4 packet forwarding: net.ipv4.ip_forward = 0
[ OK ]
```

```
Bringing up loopback interface: [ OK ]
```

```
Bringing up interface eth0: [ OK ]
```

```
Bringing up interface venet0: Bringing up interface venet0:
```

```
Configuring interface venet0:
```

```
net.ipv4.conf.venet0.send_redirects = 0
[ OK ]
```

```
[root@22491 r8168-8.018.00]# service vz restart
```

```
Shutting down CT 101
```

```
Bringing down interface venet0: [ OK ]
```

```
Stopping OpenVZ: [ OK ]
```

```
Starting OpenVZ:                [ OK ]
Bringing up interface venet0:   [ OK ]
Configuring interface venet0:   [ OK ]
Starting CT 101:                [ OK ]
[root@22491 r8168-8.018.00]#
```

So, now test again from the container...

```
Quote:[root@22491 r8168-8.018.00]# vzctl enter 101
entered into CT 101
[root@ns01 /]# ping yahoo.com
```

```
[1]+  Stopped                  ping yahoo.com
[root@ns01 /]# host yahoo.com
```

```
[2]+  Stopped                  host yahoo.com
[root@ns01 /]# mii-tool
SIOCGMIIPHY on 'eth0' failed: Operation not permitted
SIOCGMIIPHY on 'eth1' failed: Operation not permitted
SIOCGMIIPHY on 'eth2' failed: Operation not permitted
SIOCGMIIPHY on 'eth3' failed: Operation not permitted
SIOCGMIIPHY on 'eth4' failed: Operation not permitted
SIOCGMIIPHY on 'eth5' failed: Operation not permitted
SIOCGMIIPHY on 'eth6' failed: Operation not permitted
SIOCGMIIPHY on 'eth7' failed: Operation not permitted
no MII interfaces found
[root@ns01 /]# ifconfig /all
/all: error fetching interface information: Device not found
[root@ns01 /]# ifconfig
lo      Link encap:Local Loopback
        inet addr:127.0.0.1  Mask:255.0.0.0
        inet6 addr: ::1/128 Scope:Host
        UP LOOPBACK RUNNING  MTU:16436  Metric:1
        RX packets:0 errors:0 dropped:0 overruns:0 frame:0
        TX packets:0 errors:0 dropped:0 overruns:0 carrier:0
        collisions:0 txqueuelen:0
        RX bytes:0 (0.0 b) TX bytes:0 (0.0 b)
```

```
venet0  Link encap:UNSPEC  HWaddr 00-00-00-00-00-00-00-00-00-00-00-00-00-00-00-00
        inet addr:127.0.0.1  P-t-P:127.0.0.1  Bcast:0.0.0.0  Mask:255.255.255.255
        UP BROADCAST POINTOPOINT RUNNING NOARP  MTU:1500  Metric:1
        RX packets:0 errors:0 dropped:0 overruns:0 frame:0
        TX packets:3 errors:0 dropped:0 overruns:0 carrier:0
        collisions:0 txqueuelen:0
        RX bytes:0 (0.0 b) TX bytes:165 (165.0 b)
```

```
venet0:0 Link encap:UNSPEC  HWaddr 00-00-00-00-00-00-00-00-00-00-00-00-00-00-00-00
        inet addr:x.73.100.179  P-t-P:x.73.100.179  Bcast:x.73.100.179  Mask:255.255.255.255
```

UP BROADCAST POINTOPOINT RUNNING NOARP MTU:1500 Metric:1

[root@ns01 /]#

The correct netmask of the IP is .248, it is normal that the VPS load it on .255?

Subject: Re: *SOLVED* OpenVZ: No driver for NIC RTL8111/8168B [solved]

Posted by [curx](#) on Sun, 04 Apr 2010 16:59:12 GMT

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SOLVED, old thread, new thread goes to:

<http://forum.openvz.org/index.php?t=msg&th=8443&start=0&>
