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 maxmimum size of a mesage 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.