
Subject: eth0 dies when using openVZ kernel.
Posted by [thorpe](#) on Sat, 09 Feb 2008 06:32:35 GMT
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Bit of a strange one this, I'm not even sure where to start looking.

I'm using Debian Etch.

I've installed the openVZ kernel by following this guide on there site. All went smoothly. I boot into the new kernel, no problems, check ifconfig and I see...

```
eth0    Link encap:Ethernet HWaddr 00:08:A1:03:F1:14
        inet addr:192.168.10.2 Bcast:192.168.10.255 Mask:255.255.255.0
        inet6 addr: fe80::208:a1ff:fe03:f114/64 Scope:Link
        UP BROADCAST MULTICAST MTU:1500 Metric:1
        RX packets:27 errors:4 dropped:0 overruns:0 frame:0
        TX packets:35 errors:0 dropped:0 overruns:0 carrier:0
        collisions:0 txqueuelen:1000
        RX bytes:2972 (2.9 KiB) TX bytes:3031 (2.9 KiB)
        Interrupt:185 Base address:0xe800

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:8 errors:0 dropped:0 overruns:0 frame:0
        TX packets:8 errors:0 dropped:0 overruns:0 carrier:0
        collisions:0 txqueuelen:0
        RX bytes:560 (560.0 b) TX bytes:560 (560.0 b)

venet0  Link encap:UNSPEC HWaddr 00-00-00-00-00-00-00-00-00-00-00-00-00-00-00-00
        UP BROADCAST POINTOPOINT RUNNING NOARP MTU:1500 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)
```

Lovelly.

I then try to apt-get install the user-level tools and find out my connection has died. I try to ping another machine I have at 192.168.10.1, no response. I check ifconfig again, looks fine.

I reboot again into the openVZ kernel, ping 192.168.10.1 it responds. I ping it a few more times and after the third I onbce again get no response.

I then try to compile my own kernel following this guide (I use my working .config file + make the changes suggested), I boot into it, same deal. I seem to have a network connection for about 10

seconds then it just dies.

I'm really not sure where to even start looking for any error messages. Anyone got any ideas?

Subject: Re: eth0 dies when using openVZ kernel.
Posted by [maratrus](#) on Sat, 09 Feb 2008 20:12:49 GMT
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Hi,

- Any strange messages in logs or dmesg?
 - Could you please use for example "tcpdump" utility to analyse packets behavior?
 - Please check arp or route table when you loose the connection.
 - By the way can you please try "/etc/init.d/vz stop"?
-

Subject: Re: eth0 dies when using openVZ kernel.
Posted by [thorpe](#) on Mon, 03 Mar 2008 08:43:22 GMT
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This still isn't working. eth0 just drops off the face of the earth after about a minute. yet if a look at ifconfig it all looks normal.

route comes up blank after eth0 dies.

Ive got no idea where to start looking, here is a cat of /var/log/messages from the time I boot into the vz kernal till the time I need to reboot back into my normal working kernel.

Anyone got any ideas? Or can recommend some virtualization that I might be able to get working?

[code]

```
Mar 3 19:16:46 oblivion kernel: Linux version 2.6.18-ovz-028stab051.1 () (tsd@debian.systs.org)
(gcc version 4.1.2 20061115 (prerelease) (Debian 4.1.1-21)) #1 Fri Dec 7 19:42:24 CET 2007
Mar 3 19:16:46 oblivion kernel: BIOS-provided physical RAM map:
Mar 3 19:16:46 oblivion kernel: BIOS-e820: 0000000000000000 - 00000000000a0000 (usable)
Mar 3 19:16:46 oblivion kernel: BIOS-e820: 00000000000f0000 - 0000000000100000 (reserved)
Mar 3 19:16:46 oblivion kernel: BIOS-e820: 0000000000100000 - 000000001ff77000 (usable)
Mar 3 19:16:46 oblivion kernel: BIOS-e820: 000000001ff77000 - 000000001ff79000 (ACPI NVS)
Mar 3 19:16:46 oblivion kernel: BIOS-e820: 000000001ff79000 - 0000000020000000 (reserved)
Mar 3 19:16:46 oblivion kernel: BIOS-e820: 00000000fec00000 - 00000000fec10000 (reserved)
Mar 3 19:16:46 oblivion kernel: BIOS-e820: 00000000fee00000 - 00000000fee10000 (reserved)
Mar 3 19:16:46 oblivion kernel: BIOS-e820: 00000000ffb00000 - 0000000100000000 (reserved)
Mar 3 19:16:46 oblivion kernel: OMB HIGHMEM available.
Mar 3 19:16:46 oblivion kernel: 511MB LOWMEM available.
Mar 3 19:16:46 oblivion kernel: found SMP MP-table at 000fe710
Mar 3 19:16:46 oblivion kernel: DMI 2.3 present.
```

```

Mar 3 19:16:46 oblivion kernel: ACPI: PM-Timer IO Port: 0x808
Mar 3 19:16:46 oblivion kernel: ACPI: LAPIC (acpi_id[0x01] lapic_id[0x00] enabled)
Mar 3 19:16:46 oblivion kernel: Processor #0 15:2 APIC version 20
Mar 3 19:16:46 oblivion kernel: ACPI: LAPIC (acpi_id[0x02] lapic_id[0x01] disabled)
Mar 3 19:16:46 oblivion kernel: ACPI: IOAPIC (id[0x01] address[0xfec00000] gsi_base[0])
Mar 3 19:16:46 oblivion kernel: IOAPIC[0]: apic_id 1, version 32, address 0xfec00000, GSI 0-23
Mar 3 19:16:46 oblivion kernel: ACPI: INT_SRC_OVR (bus 0 bus_irq 0 global_irq 2 dfl dfl)
Mar 3 19:16:46 oblivion kernel: ACPI: INT_SRC_OVR (bus 0 bus_irq 9 global_irq 9 high level)
Mar 3 19:16:46 oblivion kernel: Enabling APIC mode: Flat. Using 1 I/O APICs
Mar 3 19:16:46 oblivion kernel: Using ACPI (MADT) for SMP configuration information
Mar 3 19:16:46 oblivion kernel: Allocating PCI resources starting at 30000000 (gap:
20000000:dec00000)
Mar 3 19:16:46 oblivion kernel: Detected 2254.151 MHz processor.
Mar 3 19:16:46 oblivion kernel: Built 1 zonelists. Total pages: 130935
Mar 3 19:16:46 oblivion kernel: Kernel command line: root=/dev/hda9 ro
Mar 3 19:16:46 oblivion kernel: Enabling fast FPU save and restore... done.
Mar 3 19:16:46 oblivion kernel: Enabling unmasked SIMD FPU exception support... done.
Mar 3 19:16:46 oblivion kernel: Initializing CPU#0
Mar 3 19:16:46 oblivion kernel: CPU 0 irqstacks, hard=c05bf000 soft=c05be000
Mar 3 19:16:46 oblivion kernel: PID hash table entries: 2048 (order: 11, 8192 bytes)
Mar 3 19:16:46 oblivion kernel: Console: colour VGA+ 80x25
Mar 3 19:16:46 oblivion kernel: Dentry cache hash table entries: 65536 (order: 6, 262144 bytes)
Mar 3 19:16:46 oblivion kernel: Inode-cache hash table entries: 32768 (order: 5, 131072 bytes)
Mar 3 19:16:46 oblivion kernel: Memory: 510144k/523740k available (3475k kernel code, 13056k
reserved, 1083k data, 272k init, 0k highmem)
Mar 3 19:16:46 oblivion kernel: Checking if this processor honours the WP bit even in supervisor
mode... Ok.
Mar 3 19:16:46 oblivion kernel: Calibrating delay using timer specific routine.. 4509.75 BogoMIPS
(lpj=2254879)
Mar 3 19:16:46 oblivion kernel: Mount-cache hash table entries: 512
Mar 3 19:16:46 oblivion kernel: CPU: Trace cache: 12K uops, L1 D cache: 8K
Mar 3 19:16:46 oblivion kernel: CPU: L2 cache: 512K
Mar 3 19:16:46 oblivion kernel: Intel machine check architecture supported.
Mar 3 19:16:46 oblivion kernel: Intel machine check reporting enabled on CPU#0.
Mar 3 19:16:46 oblivion kernel: CPU0: Intel P4/Xeon Extended MCE MSRs (12) available
Mar 3 19:16:46 oblivion kernel: CPU0: Thermal monitoring enabled
Mar 3 19:16:46 oblivion kernel: Compat vDSO mapped to fffe000.
Mar 3 19:16:46 oblivion kernel: CPU: Intel(R) Pentium(R) 4 CPU 2.26GHz stepping 04
Mar 3 19:16:46 oblivion kernel: Checking 'hlt' instruction... OK.
Mar 3 19:16:46 oblivion kernel: ACPI: Core revision 20060707
Mar 3 19:16:46 oblivion kernel: Page beancounter hash is 32768 entries.
Mar 3 19:16:46 oblivion kernel: ENABLING IO-APIC IRQs
Mar 3 19:16:46 oblivion kernel: ..TIMER: vector=0x31 apic1=0 pin1=2 apic2=-1 pin2=-1
Mar 3 19:16:46 oblivion kernel: checking if image is initramfs... it is
Mar 3 19:16:46 oblivion kernel: Freeing initrd memory: 2715k freed
Mar 3 19:16:46 oblivion kernel: NET: Registered protocol family 16
Mar 3 19:16:46 oblivion kernel: ACPI: bus type pci registered
Mar 3 19:16:46 oblivion kernel: PCI: PCI BIOS revision 2.10 entry at 0xfbeae, last bus=2

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Mar 3 19:16:46 oblivion kernel: PCI: Using configuration type 1
Mar 3 19:16:46 oblivion kernel: Setting up standard PCI resources
Mar 3 19:16:46 oblivion kernel: ACPI: Interpreter enabled
Mar 3 19:16:46 oblivion kernel: ACPI: Using IOAPIC for interrupt routing
Mar 3 19:16:46 oblivion kernel: ACPI: PCI Root Bridge [PCI0] (0000:00)
Mar 3 19:16:46 oblivion kernel: ACPI: Assume root bridge [_SB_.PCI0] bus is 0
Mar 3 19:16:46 oblivion kernel: PCI quirk: region 0800-087f claimed by ICH4 ACPI/GPIO/TCO
Mar 3 19:16:46 oblivion kernel: PCI quirk: region 0880-08bf claimed by ICH4 GPIO
Mar 3 19:16:46 oblivion kernel: PCI: Transparent bridge - 0000:00:1e.0
Mar 3 19:16:46 oblivion kernel: ACPI: PCI Interrupt Link [LNKA] (IRQs *3 4 5 6 7 9 10 11 12 15)
Mar 3 19:16:46 oblivion kernel: ACPI: PCI Interrupt Link [LNKB] (IRQs 3 4 5 6 7 9 *10 11 12 15)
Mar 3 19:16:46 oblivion kernel: ACPI: PCI Interrupt Link [LNKC] (IRQs 3 4 5 6 7 9 10 *11 12 15)
Mar 3 19:16:46 oblivion kernel: ACPI: PCI Interrupt Link [LNKD] (IRQs 3 4 5 6 7 9 10 *11 12 15)
Mar 3 19:16:46 oblivion kernel: ACPI: PCI Interrupt Link [LNKE] (IRQs 3 4 5 6 7 9 10 11 12 15)
*0, disabled.
Mar 3 19:16:46 oblivion kernel: ACPI: PCI Interrupt Link [LNKF] (IRQs 3 4 5 6 7 9 10 11 12 15)
*0, disabled.
Mar 3 19:16:46 oblivion kernel: ACPI: PCI Interrupt Link [LNKG] (IRQs 3 4 5 6 7 9 10 11 12 15)
*0, disabled.
Mar 3 19:16:46 oblivion kernel: ACPI: PCI Interrupt Link [LNKH] (IRQs 3 4 5 6 7 *9 10 11 12 15)
Mar 3 19:16:46 oblivion kernel: SCSI subsystem initialized
Mar 3 19:16:46 oblivion kernel: PCI: Using ACPI for IRQ routing
Mar 3 19:16:46 oblivion kernel: PCI: If a device doesn't work, try "pci=routeirq". If it helps, post a
report
Mar 3 19:16:46 oblivion kernel: PCI: Bridge: 0000:00:01.0
Mar 3 19:16:46 oblivion kernel: IO window: disabled.
Mar 3 19:16:46 oblivion kernel: MEM window: fb000000-fdffffff
Mar 3 19:16:46 oblivion kernel: PREFETCH window: e0000000-efffffff
Mar 3 19:16:46 oblivion kernel: PCI: Bridge: 0000:00:1e.0
Mar 3 19:16:46 oblivion kernel: IO window: e000-ffff
Mar 3 19:16:46 oblivion kernel: MEM window: fe100000-fe2fffff
Mar 3 19:16:46 oblivion kernel: PREFETCH window: 30000000-300fffff
Mar 3 19:16:46 oblivion kernel: NET: Registered protocol family 2
Mar 3 19:16:46 oblivion kernel: IP route cache hash table entries: 4096 (order: 2, 16384 bytes)
Mar 3 19:16:46 oblivion kernel: TCP established hash table entries: 16384 (order: 4, 65536
bytes)
Mar 3 19:16:46 oblivion kernel: TCP bind hash table entries: 8192 (order: 3, 32768 bytes)
Mar 3 19:16:46 oblivion kernel: TCP: Hash tables configured (established 16384 bind 8192)
Mar 3 19:16:46 oblivion kernel: TCP reno registered
Mar 3 19:16:46 oblivion kernel: Simple Boot Flag at 0x7a set to 0x80
Mar 3 19:16:46 oblivion kernel: VFS: Disk quotas dquot_6.5.1
Mar 3 19:16:46 oblivion kernel: Dquot-cache hash table entries: 1024 (order 0, 4096 bytes)
Mar 3 19:16:46 oblivion kernel: Initializing Cryptographic API
Mar 3 19:16:46 oblivion kernel: io scheduler noop registered
Mar 3 19:16:46 oblivion kernel: io scheduler anticipatory registered
Mar 3 19:16:46 oblivion kernel: io scheduler deadline registered
Mar 3 19:16:46 oblivion kernel: io scheduler cfq registered (default)
Mar 3 19:16:46 oblivion kernel: pci_hotplug: PCI Hot Plug PCI Core version: 0.5

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Mar 3 19:16:46 oblivion kernel: Real Time Clock Driver v1.12ac
Mar 3 19:16:46 oblivion kernel: Serial: 8250/16550 driver \$Revision: 1.90 \$ 4 ports, IRQ sharing disabled
Mar 3 19:16:46 oblivion kernel: serial8250: ttyS0 at I/O 0x3f8 (irq = 4) is a 16550A
Mar 3 19:16:46 oblivion kernel: RAMDISK driver initialized: 16 RAM disks of 16384K size 1024 blocksize
Mar 3 19:16:46 oblivion kernel: Compaq SMART2 Driver (v 2.6.0)
Mar 3 19:16:46 oblivion kernel: HP CISS Driver (v 3.6.10)
Mar 3 19:16:46 oblivion kernel: Uniform Multi-Platform E-IDE driver Revision: 7.00alpha2
Mar 3 19:16:46 oblivion kernel: ide: Assuming 33MHz system bus speed for PIO modes; override with idebus=xx
Mar 3 19:16:46 oblivion kernel: ICH2: IDE controller at PCI slot 0000:00:1f.1
Mar 3 19:16:46 oblivion kernel: ICH2: chipset revision 4
Mar 3 19:16:46 oblivion kernel: ICH2: not 100%% native mode: will probe irqs later
Mar 3 19:16:46 oblivion kernel: ide0: BM-DMA at 0xffa0-0xffa7, BIOS settings: hda:DMA, hdb:pio
Mar 3 19:16:46 oblivion kernel: ide1: BM-DMA at 0xffa8-0xffaf, BIOS settings: hdc:DMA, hdd:pio
Mar 3 19:16:46 oblivion kernel: hda: WDC WD800BB-75CAA0, ATA DISK drive
Mar 3 19:16:46 oblivion kernel: hdb: ST3320620A, ATA DISK drive
Mar 3 19:16:46 oblivion kernel: ide0 at 0x1f0-0x1f7,0x3f6 on irq 14
Mar 3 19:16:46 oblivion kernel: hdc: HL-DT-ST DVDROM GSA-4163B, ATAPI CD/DVD-ROM drive
Mar 3 19:16:46 oblivion kernel: ide1 at 0x170-0x177,0x376 on irq 15
Mar 3 19:16:46 oblivion kernel: hda: max request size: 128KiB
Mar 3 19:16:46 oblivion kernel: hda: Host Protected Area detected.
Mar 3 19:16:46 oblivion kernel: ^lcurrent capacity is 156250000 sectors (80000 MB)
Mar 3 19:16:46 oblivion kernel: ^lnative capacity is 156250080 sectors (80000 MB)
Mar 3 19:16:46 oblivion kernel: hda: Host Protected Area disabled.
Mar 3 19:16:46 oblivion kernel: hda: 156250080 sectors (80000 MB) w/2048KiB Cache, CHS=65535/16/63, UDMA(100)
Mar 3 19:16:46 oblivion kernel: hda: cache flushes not supported
Mar 3 19:16:46 oblivion kernel: hda: hda1 < hda5 hda6 hda7 hda8 hda9 hda10 hda11 hda12 hda13 hda14 >
Mar 3 19:16:46 oblivion kernel: hdb: max request size: 512KiB
Mar 3 19:16:46 oblivion kernel: hdb: 625142448 sectors (320072 MB) w/16384KiB Cache, CHS=38913/255/63, UDMA(100)
Mar 3 19:16:46 oblivion kernel: hdb: cache flushes supported
Mar 3 19:16:46 oblivion kernel: hdb: hdb1 hdb2
Mar 3 19:16:46 oblivion kernel: Loading iSCSI transport class v1.1-646.<6>Adaptec aacraid driver (1.1-5[2409]-mh2)
Mar 3 19:16:46 oblivion kernel: QLogic Fibre Channel HBA Driver
Mar 3 19:16:46 oblivion kernel: Emulex LightPulse Fibre Channel SCSI driver 8.1.9
Mar 3 19:16:46 oblivion kernel: Copyright(c) 2004-2006 Emulex. All rights reserved.
Mar 3 19:16:46 oblivion kernel: megaraid cmm: 2.20.2.7 (Release Date: Sun Jul 16 00:01:03 EST 2006)
Mar 3 19:16:46 oblivion kernel: megaraid: 2.20.4.9 (Release Date: Sun Jul 16 12:27:22 EST 2006)

Mar 3 19:16:46 oblivion kernel: megasas: 00.00.03.01 Sun May 14 22:49:52 PDT 2006
Mar 3 19:16:46 oblivion kernel: GDT-HA: Storage RAID Controller Driver. Version: 3.05
Mar 3 19:16:46 oblivion kernel: GDT-HA: Found 0 PCI Storage RAID Controllers
Mar 3 19:16:46 oblivion kernel: 3ware Storage Controller device driver for Linux v1.26.02.001.
Mar 3 19:16:46 oblivion kernel: 3ware 9000 Storage Controller device driver for Linux v2.26.02.007.
Mar 3 19:16:46 oblivion kernel: serio: i8042 AUX port at 0x60,0x64 irq 12
Mar 3 19:16:46 oblivion kernel: serio: i8042 KBD port at 0x60,0x64 irq 1
Mar 3 19:16:46 oblivion kernel: mice: PS/2 mouse device common for all mice
Mar 3 19:16:46 oblivion kernel: md: linear personality registered for level -1
Mar 3 19:16:46 oblivion kernel: md: raid0 personality registered for level 0
Mar 3 19:16:46 oblivion kernel: md: raid1 personality registered for level 1
Mar 3 19:16:46 oblivion kernel: md: raid10 personality registered for level 10
Mar 3 19:16:46 oblivion kernel: raid6: int32x1 597 MB/s
Mar 3 19:16:46 oblivion kernel: raid6: int32x2 621 MB/s
Mar 3 19:16:46 oblivion kernel: raid6: int32x4 605 MB/s
Mar 3 19:16:46 oblivion kernel: raid6: int32x8 425 MB/s
Mar 3 19:16:46 oblivion kernel: raid6: mmxx1 1804 MB/s
Mar 3 19:16:46 oblivion kernel: raid6: mmxx2 2316 MB/s
Mar 3 19:16:46 oblivion kernel: raid6: sse1x1 1000 MB/s
Mar 3 19:16:46 oblivion kernel: raid6: sse1x2 2031 MB/s
Mar 3 19:16:46 oblivion kernel: raid6: sse2x1 1765 MB/s
Mar 3 19:16:46 oblivion kernel: raid6: sse2x2 2546 MB/s
Mar 3 19:16:46 oblivion kernel: raid6: using algorithm sse2x2 (2546 MB/s)
Mar 3 19:16:46 oblivion kernel: md: raid6 personality registered for level 6
Mar 3 19:16:46 oblivion kernel: md: raid5 personality registered for level 5
Mar 3 19:16:46 oblivion kernel: md: raid4 personality registered for level 4
Mar 3 19:16:46 oblivion kernel: raid5: automatically using best checksumming function: pIII_sse
Mar 3 19:16:46 oblivion kernel: pIII_sse : 2924.000 MB/sec
Mar 3 19:16:46 oblivion kernel: raid5: using function: pIII_sse (2924.000 MB/sec)
Mar 3 19:16:46 oblivion kernel: md: multipath personality registered for level -4
Mar 3 19:16:46 oblivion kernel: md: md driver 0.90.3 MAX_MD_DEVS=256, MD_SB_DISKS=27
Mar 3 19:16:46 oblivion kernel: md: bitmap version 4.39
Mar 3 19:16:46 oblivion kernel: device-mapper: ioctl: 4.7.0-iocli (2006-06-24) initialised:
dm-devel@redhat.com
Mar 3 19:16:46 oblivion kernel: device-mapper: multipath: version 1.0.4 loaded
Mar 3 19:16:46 oblivion kernel: device-mapper: multipath round-robin: version 1.0.0 loaded
Mar 3 19:16:46 oblivion kernel: device-mapper: multipath emc: version 0.0.3 loaded
Mar 3 19:16:46 oblivion kernel: TCP bic registered
Mar 3 19:16:46 oblivion kernel: NET: Registered protocol family 1
Mar 3 19:16:46 oblivion kernel: NET: Registered protocol family 10
Mar 3 19:16:46 oblivion kernel: IPv6 over IPv4 tunneling driver
Mar 3 19:16:46 oblivion kernel: Using IPI Shortcut mode
Mar 3 19:16:46 oblivion kernel: ACPI: (supports S0 S1 S3 S4 S5<6>Time: tsc clocksource has been installed.
Mar 3 19:16:46 oblivion kernel:)
Mar 3 19:16:46 oblivion kernel: Freeing unused kernel memory: 272k freed
Mar 3 19:16:46 oblivion kernel: input: AT Translated Set 2 keyboard as /class/input/input0

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Mar 3 19:16:46 oblivion kernel: input: ImExPS/2 Generic Explorer Mouse as /class/input/input1
Mar 3 19:16:46 oblivion kernel: usbcore: registered new driver usbfs
Mar 3 19:16:46 oblivion kernel: usbcore: registered new driver hub
Mar 3 19:16:46 oblivion kernel: USB Universal Host Controller Interface driver v3.0
Mar 3 19:16:46 oblivion kernel: ACPI: PCI Interrupt 0000:00:1f.2[D] -> GSI 19 (level, low) -> IRQ
16
Mar 3 19:16:46 oblivion kernel: uhci_hcd 0000:00:1f.2: UHCI Host Controller
Mar 3 19:16:46 oblivion kernel: uhci_hcd 0000:00:1f.2: new USB bus registered, assigned bus
number 1
Mar 3 19:16:46 oblivion kernel: uhci_hcd 0000:00:1f.2: irq 16, io base 0x0000ff80
Mar 3 19:16:46 oblivion kernel: usb usb1: configuration #1 chosen from 1 choice
Mar 3 19:16:46 oblivion kernel: hub 1-0:1.0: USB hub found
Mar 3 19:16:46 oblivion kernel: hub 1-0:1.0: 2 ports detected
Mar 3 19:16:46 oblivion kernel: hdc: ATAPI 40X DVD-ROM DVD-R-RAM CD-R/RW drive,
2048kB Cache, UDMA(33)
Mar 3 19:16:46 oblivion kernel: Uniform CD-ROM driver Revision: 3.20
Mar 3 19:16:46 oblivion kernel: Linux Tulip driver version 1.1.13 (May 11, 2002)
Mar 3 19:16:46 oblivion kernel: ACPI: PCI Interrupt 0000:00:1f.4[C] -> GSI 23 (level, low) -> IRQ
17
Mar 3 19:16:46 oblivion kernel: uhci_hcd 0000:00:1f.4: UHCI Host Controller
Mar 3 19:16:46 oblivion kernel: uhci_hcd 0000:00:1f.4: new USB bus registered, assigned bus
number 2
Mar 3 19:16:46 oblivion kernel: uhci_hcd 0000:00:1f.4: irq 17, io base 0x0000ff60
Mar 3 19:16:46 oblivion kernel: usb usb2: configuration #1 chosen from 1 choice
Mar 3 19:16:46 oblivion kernel: hub 2-0:1.0: USB hub found
Mar 3 19:16:46 oblivion kernel: hub 2-0:1.0: 2 ports detected
Mar 3 19:16:46 oblivion kernel: ACPI: PCI Interrupt 0000:02:09.0[A] -> GSI 18 (level, low) -> IRQ
18
Mar 3 19:16:46 oblivion kernel: tulip0: EEPROM default media type Autosense.
Mar 3 19:16:46 oblivion kernel: tulip0: Index #0 - Media MII (#11) described by a 21140 MII PHY
(1) block.
Mar 3 19:16:46 oblivion kernel: tulip0: Index #1 - Media 10baseT (#0) described by a 21140
non-MII (0) block.
Mar 3 19:16:46 oblivion kernel: tulip0: Index #2 - Media 100baseTx (#3) described by a 21140
non-MII (0) block.
Mar 3 19:16:46 oblivion kernel: tulip0: Index #3 - Media 10baseT-FDX (#4) described by a 21140
non-MII (0) block.
Mar 3 19:16:46 oblivion kernel: tulip0: Index #4 - Media 100baseTx-FDX (#5) described by a
21140 non-MII (0) block.
Mar 3 19:16:46 oblivion kernel: tulip0: MII transceiver #1 config 3100 status 7809 advertising
01e1.
Mar 3 19:16:46 oblivion kernel: eth0: Davicom DM9102/DM9102A rev 49 at 0001e800,
00:08:A1:03:F1:14, IRQ 18.
Mar 3 19:16:46 oblivion kernel: usb 1-2: new full speed USB device using uhci_hcd and address
2
Mar 3 19:16:46 oblivion kernel: usb 1-2: configuration #1 chosen from 1 choice
Mar 3 19:16:46 oblivion kernel: Initializing USB Mass Storage driver...
Mar 3 19:16:46 oblivion kernel: scsi0 : SCSI emulation for USB Mass Storage devices

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Mar 3 19:16:46 oblivion kernel: usbcore: registered new driver usb-storage
Mar 3 19:16:46 oblivion kernel: USB Mass Storage support registered.
Mar 3 19:16:46 oblivion kernel: Attempting manual resume
Mar 3 19:16:46 oblivion kernel: kjournald starting. Commit interval 5 seconds
Mar 3 19:16:46 oblivion kernel: EXT3-fs: mounted filesystem with ordered data mode.
Mar 3 19:16:46 oblivion kernel: shpchp: Standard Hot Plug PCI Controller Driver version: 0.4
Mar 3 19:16:46 oblivion kernel: drivers/usb/class/usbld.c: usbld0: USB Bidirectional printer dev 2
if 1 alt 0 proto 2 vid 0x04A9 pid 0x1725
Mar 3 19:16:46 oblivion kernel: usbcore: registered new driver usblp
Mar 3 19:16:46 oblivion kernel: drivers/usb/class/usblp.c: v0.13: USB Printer Device Class driver
Mar 3 19:16:46 oblivion kernel: ACPI: PCI Interrupt 0000:00:1f.3[B] -> GSI 17 (level, low) -> IRQ
19
Mar 3 19:16:46 oblivion kernel: Adding 1048784k swap on /dev/hda11. Priority:-1 extents:1
across:1048784k
Mar 3 19:16:46 oblivion kernel: EXT3 FS on hda9, internal journal
Mar 3 19:16:46 oblivion kernel: Vendor: Canon Model: MP610 series Rev: 1020
Mar 3 19:16:46 oblivion kernel: Type: Direct-Access ANSI SCSI revision: 02
Mar 3 19:16:46 oblivion kernel: sd 0:0:0:0: Attached scsi removable disk sda
Mar 3 19:16:46 oblivion kernel: loop: loaded (max 8 devices)
Mar 3 19:16:46 oblivion kernel: kjournald starting. Commit interval 5 seconds
Mar 3 19:16:46 oblivion kernel: EXT3 FS on hda12, internal journal
Mar 3 19:16:46 oblivion kernel: EXT3-fs: mounted filesystem with ordered data mode.
Mar 3 19:16:46 oblivion kernel: ReiserFS: hdb2: found reiserfs format "3.6" with standard journal
Mar 3 19:16:46 oblivion kernel: ReiserFS: hdb2: using ordered data mode
Mar 3 19:16:46 oblivion kernel: ReiserFS: hdb2: journal params: device hdb2, size 8192, journal
first block 18, max trans len 1024, max batch 900, max commit age 30, max trans age 30
Mar 3 19:16:46 oblivion kernel: ReiserFS: hdb2: checking transaction log (hdb2)
Mar 3 19:16:46 oblivion kernel: ReiserFS: hdb2: Using r5 hash to sort names
Mar 3 19:16:46 oblivion kernel: kjournald starting. Commit interval 5 seconds
Mar 3 19:16:46 oblivion kernel: EXT3 FS on hda6, internal journal
Mar 3 19:16:46 oblivion kernel: EXT3-fs: mounted filesystem with ordered data mode.
Mar 3 19:16:47 oblivion kernel: ACPI: Power Button (FF) [PWRF]
Mar 3 19:16:47 oblivion kernel: ACPI: Power Button (CM) [VBTN]
Mar 3 19:16:47 oblivion kernel: parport0: PC-style at 0x378 (0x778) [PCSP(,...)]
Mar 3 19:16:47 oblivion kernel: parport0: irq 7 detected
Mar 3 19:16:47 oblivion kernel: lp0: using parport0 (polling).
Mar 3 19:16:48 oblivion kernel: eth0: Setting full-duplex based on MII#1 link partner capability of
45e1.
Mar 3 19:16:51 oblivion kernel: ip_tables: (C) 2000-2006 Netfilter Core Team
Mar 3 19:16:51 oblivion kernel: NET: Registered protocol family 17
Mar 3 19:16:51 oblivion kernel: tun: Universal TUN/TAP device driver, 1.6
Mar 3 19:16:51 oblivion kernel: tun: (C) 1999-2004 Max Krasnyansky <maxk@qualcomm.com>
Mar 3 19:16:51 oblivion kernel: ip_contrack version 2.4 (4091 buckets, 32728 max) - 208 bytes
per conntrack
Mar 3 19:18:26 oblivion shutdown[8326]: shutting down for system reboot
Mar 3 19:18:27 oblivion kernel: NET: Unregistered protocol family 17
Mar 3 19:18:29 oblivion kernel: Kernel logging (proc) stopped.
Mar 3 19:18:29 oblivion kernel: Kernel log daemon terminating.

```

Mar 3 19:18:30 oblivion exiting on signal 15
Mar 3 19:20:26 oblivion syslogd 1.4.1#18: restart.
Mar 3 19:20:26 oblivion kernel: klogd 1.4.1#18, log source = /proc/kmsg started.
Mar 3 19:20:26 oblivion kernel: Linux version 2.6.18-5-686 (Debian 2.6.18.dfsg.1-17)
(dannf@debian.org) (gcc version 4.1.2 20061115 (prerelease) (Debian 4.1.1-21)) #1 SMP Mon
Dec 24 16:41:07 UTC 2007
[code]

Subject: Re: eth0 dies when using openVZ kernel.
Posted by [den](#) on Mon, 03 Mar 2008 12:00:56 GMT
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This looks like (somehow) that you/somebody has deleted the last address of the eth0 and add it again.

ifconfig is basically useless for an analysis. You should check routes configuration. The best thing to do is to install iproute2 package and use 'ip' utility.

'ip route list table all' will give exact information about all tables and 'ip route get <ip_addr>' will help to understand what happens.

Basically, if you see packet drops, you should check the content of 'netstat -s'. Drops are not gone into void, they increase some counters and the exact counter name will help to understand what happens in the reality.

Regards,
Den

Subject: Re: eth0 dies when using openVZ kernel.
Posted by [thorpe](#) on Tue, 04 Mar 2008 05:23:32 GMT
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Hopefully this will help you help me but I have no idea what any of this means.

Here is the output of 'ip route list table all' from my working kernel (with network working)

```
192.168.10.0/24 dev eth0 proto kernel scope link src 192.168.10.2
default via 192.168.10.1 dev eth0
broadcast 127.255.255.255 dev lo table 255 proto kernel scope link src 127.0.0.1
broadcast 192.168.10.255 dev eth0 table 255 proto kernel scope link src 192.168.10.2
local 192.168.10.2 dev eth0 table 255 proto kernel scope host src 192.168.10.2
broadcast 192.168.10.0 dev eth0 table 255 proto kernel scope link src 192.168.10.2
broadcast 127.0.0.0 dev lo table 255 proto kernel scope link src 127.0.0.1
local 127.0.0.1 dev lo table 255 proto kernel scope host src 127.0.0.1
local 127.0.0.0/8 dev lo table 255 proto kernel scope host src 127.0.0.1
```

```
local ::1 via :: dev lo proto none metric 0 mtu 16436 advmss 16376 hoplimit 4294967295
local fe80::208:a1ff:fe03:f114 via :: dev lo proto none metric 0 mtu 16436 advmss 16376
hoplimit 4294967295
fe80::/64 dev eth0 metric 256 expires 8532984sec mtu 1500 advmss 1440 hoplimit 4294967295
ff00::/8 dev eth0 metric 256 expires 8532984sec mtu 1500 advmss 1440 hoplimit 4294967295
unreachable default dev lo proto none metric -1 error -101 hoplimit 255
```

Now, here is the output of the same command using the ovz kernel.

```
192.168.10.0/24 dev eth0 proto kernel scope link src 192.168.10.2
default via 192.168.10.1 dev eth0
broadcast 127.255.255.255 dev lo table 255 proto kernel scope link src 127.0.0.1
broadcast 192.168.10.255 dev eth0 table 255 proto kernel scope link src 192.168.10.2
local 192.168.10.2 dev eth0 table 255 proto kernel scope host src 192.168.10.2
broadcast 192.168.10.0 dev eth0 table 255 proto kernel scope link src 192.168.10.2
broadcast 127.0.0.0 dev lo table 255 proto kernel scope link src 127.0.0.1
local 127.0.0.1 dev lo table 255 proto kernel scope host src 127.0.0.1
local 127.0.0.0/8 dev lo table 255 proto kernel scope host src 127.0.0.1
local ::1 via :: dev lo proto none metric 0 mtu 16436 advmss 16376 hoplimit 4294967295
local fe80::208:a1ff:fe03:f114 via :: dev lo proto none metric 0 mtu 16436 advmss 16376
hoplimit 4294967295
fe80::/64 dev eth0 metric 256 expires 2133431sec mtu 1500 advmss 1440 hoplimit 4294967295
ff00::/8 dev eth0 metric 256 expires 2133431sec mtu 1500 advmss 1440 hoplimit 4294967295
unreachable default dev lo proto none metric -1 error -101 hoplimit 255
```

And here is the output of 'netstat -s' from my working kernel.

Ip:

- 36 total packets received
- 0 forwarded
- 0 incoming packets discarded
- 36 incoming packets delivered
- 36 requests sent out

Icmp:

- 0 ICMP messages received
- 0 input ICMP message failed.
- ICMP input histogram:
- 0 ICMP messages sent
- 0 ICMP messages failed
- ICMP output histogram:

Tcp:

- 0 active connections openings
- 0 passive connection openings
- 0 failed connection attempts
- 0 connection resets received
- 0 connections established
- 0 segments received
- 0 segments send out

0 segments retransmitted
0 bad segments received.
0 resets sent

Udp:

36 packets received
0 packets to unknown port received.
0 packet receive errors
36 packets sent

TcpExt:

0 packet headers predicted
0 TCP data loss events

Finally, here is the output of the same command using the ovz kernel. This was ran after I ran 'ping -c 10 google.com' which ended up dying with 35% packet loss, after that I had no connection at all.

Ip:

53 total packets received
0 forwarded
0 incoming packets discarded
53 incoming packets delivered
58 requests sent out

Icmp:

9 ICMP messages received
1 input ICMP message failed.
ICMP input histogram:
 destination unreachable: 2
 echo replies: 7
2 ICMP messages sent
0 ICMP messages failed
ICMP output histogram:
 destination unreachable: 2

Tcp:

1 active connections openings
0 passive connection openings
1 failed connection attempts
0 connection resets received
0 connections established
0 segments received
1 segments send out
1 segments retransmitted
0 bad segments received.
0 resets sent

Udp:

44 packets received
0 packets to unknown port received.
0 packet receive errors
44 packets sent

TcpExt:

- 0 packet headers predicted
- 0 TCP data loss events
- 1 other TCP timeouts

Im not sure what ip address to use with the suggested 'ip route get <ip_addr>' command as I really do not understand any of what is going on.

Am I seriously the only person this has happened too? I cannot find any information at all.

Thankyou very much for your time. I feel like an absolute newb again. Ive used Linux (Gentoo and now Debian) for around 4 years, just never had any network trouble.

Subject: Re: eth0 dies when using openVZ kernel.
Posted by [den](#) on Tue, 04 Mar 2008 06:13:35 GMT

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Basically, all this output is just routes in the slightly different format that one from 'route' utility. Linux uses 2 tables by default for routing:

- main and
- local.

The latter is used to determine the source address of the outgoing packet and to decide whether the packet is local.

'ip' interface is a bit newer in respect to 'route' and is preferred for a lot of people, though it is not compatible with classical Unix one.

For the problem. According to the statistics present, you have 'destination unreachable' error.

So you have listed routing tables after the boot or when you see the problem? We need to see the latter. Additionally, could you share the result of 'ip route get <ip address you are trying to ping>' and 'arp -n' at the moment of the problem?

Subject: Re: eth0 dies when using openVZ kernel.
Posted by [thorpe](#) on Tue, 04 Mar 2008 07:24:28 GMT

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Ok, thanks heaps for this. here is my routing tables list after the problem has occurred (ie I have no connection).

```
192.168.10.0/24 dev eth0 proto kernel scope link src 192.168.10.2
default via 192.168.10.1 dev eth0
broadcast 127.255.255.255 dev lo table 255 proto kernel scope link src 127.0.0.1
broadcast 192.168.10.255 dev eth0 table 255 proto kernel scope link src 192.168.10.2
```

```
local 192.168.10.2 dev eth0 table 255 proto kernel scope host src 192.168.10.2
broadcast 192.168.10.0 dev eth0 table 255 proto kernel scope link src 192.168.10.2
broadcast 127.0.0.0 dev lo table 255 proto kernel scope link src 127.0.0.1
local 127.0.0.1 dev lo table 255 proto kernel scope host src 127.0.0.1
local 127.0.0.0/8 dev lo table 255 proto kernel scope host src 127.0.0.1
local ::1 via :: dev lo proto none metric 0 mtu 16436 advmss 16376 hoplimit 4294967295
local fe80::208:a1ff:fe03:f114 via :: dev lo proto none metric 0 mtu 16436 advmss 16376
hoplimit 4294967295
fe80::/64 dev eth0 metric 256 expires 2133422sec mtu 1500 advmss 1440 hoplimit 4294967295
ff00::/8 dev eth0 metric 256 expires 2133422sec mtu 1500 advmss 1440 hoplimit 4294967295
unreachable default dev lo proto none metric -1 error -101 hoplimit 255
```

Here is the output of 'ip route get 72.14.207.99' (google's ip)

```
72.14.207.99 via 192.168.10.1 dev eth0 src 192.168.10.2
cache mtu 1500 advmss 1460 hoplimit 64
```

And now, the output of 'arp -n'

Address	HWtype	HWaddress	Flags	Mask	Iface
192.168.10.1		(incomplete)			eth0

Hope this helps. Thanks again.

Subject: Re: eth0 dies when using openVZ kernel.
Posted by [den](#) on Tue, 04 Mar 2008 08:04:25 GMT
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ARP resolution does not work for the case.

Could you check with tcpdump that there is an outgoing ARP request?

```
tcpdump -ni eth0 arp
```

If you see the request and do not see a reply, then you should check that your router really send the reply packet, it is best to be done in the similar way from the other host in the network.

Subject: Re: eth0 dies when using openVZ kernel.
Posted by [thorpe](#) on Tue, 04 Mar 2008 08:52:49 GMT
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Quote:it is best to be done in the similar way from the other host in the network.

And how exactly would I do that?

Subject: Re: eth0 dies when using openVZ kernel.
Posted by [thorpe](#) on Tue, 04 Mar 2008 09:30:09 GMT
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Also, do you think it might be worth my while trying another card?

I've got a spare here.

Subject: Re: eth0 dies when using openVZ kernel.
Posted by [den](#) on Tue, 04 Mar 2008 11:22:59 GMT
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basically, I do not have an answer for this.

We have heard about e1000 problems with 028stab053 kernel. Though, this can be irrelevant.

As for ARP, should should do the same
tcpdump -n arp
and check that you see both arp requests and arp reply for the case.

Subject: SOLVED
Posted by [thorpe](#) on Wed, 05 Mar 2008 04:07:33 GMT
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Ok, I'm really not sure what the issue was, and to be honest no longer care.

I pulled my card out, replaced it with my spare D-Link RTL8139 and all is now working.

Thanks again for you help, now its time to go play with this thing. i'm sure I'll be back with more questions soon enough.
