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Subject: Kernel Upgrade fails

Posted by [johan\\_hammy](#) on Wed, 07 May 2008 13:38:58 GMT

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I attempted to upgrade my kernel the other day. I don't remember the previous version because it removed the package, but the latest installed version is 2.6.18-53.1.13.el5.028stab053.10.

The machine didn't come back up, so I had to go on site and select a previous kernel to get the machine to boot. That version is 2.6.18-53.1.6.el5.028stab053.6.

What do you need to see what's going on?

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Subject: Re: Kernel Upgrade fails

Posted by [kir](#) on Wed, 07 May 2008 14:07:26 GMT

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You have to set up remote console (or otherwise get an access to the console) and log boot messages -- then file a bug to <http://bugzilla.openvz.org/>

[http://wiki.openvz.org/Remote\\_console\\_setup](http://wiki.openvz.org/Remote_console_setup)

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Subject: Re: Kernel Upgrade fails

Posted by [johan\\_hammy](#) on Sun, 01 Jun 2008 04:48:19 GMT

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Before I go to the remote console, I thought I would update and try again. I dunno if this happened last time, but I got some errors.

```
Installing: ovzkernel          #####          [18/38]warning:
/etc/modprobe.d/blacklist-firewire created as /etc/modp
robe.d/blacklist-firewire.rpmnew
Installing: ovzkernel          #####          [18/38]
WARNING:
/lib/modules/2.6.18-53.1.19.el5.028stab053.14/kernel/drivers/acpi/acpi_memhotplug.ko needs
unknown symbol strcpy
WARNING:
/lib/modules/2.6.18-53.1.19.el5.028stab053.14/kernel/drivers/acpi/acpi_memhotplug.ko needs
unknown symbol add_memory
WARNING:
/lib/modules/2.6.18-53.1.19.el5.028stab053.14/kernel/drivers/acpi/acpi_memhotplug.ko needs
unknown symbol memory_add_physaddr_to_          nid
WARNING:
/lib/modules/2.6.18-53.1.19.el5.028stab053.14/kernel/drivers/acpi/acpi_memhotplug.ko needs
unknown symbol remove_memory
```

WARNING:  
/lib/modules/2.6.18-53.1.19.el5.028stab053.14/kernel/drivers/acpi/acpi\_memhotplug.ko needs unknown symbol strcmp

WARNING:  
/lib/modules/2.6.18-53.1.19.el5.028stab053.14/kernel/drivers/acpi/acpi\_memhotplug.ko needs unknown symbol acpi\_get\_node

WARNING:  
/lib/modules/2.6.18-53.1.19.el5.028stab053.14/kernel/drivers/infiniband/hw/ipath/ib\_ipath.ko needs unknown symbol dma\_ops

WARNING:  
/lib/modules/2.6.18-53.1.19.el5.028stab053.14/kernel/drivers/infiniband/hw/ipath/ib\_ipath.ko needs unknown symbol copy\_from\_user

WARNING:  
/lib/modules/2.6.18-53.1.19.el5.028stab053.14/kernel/drivers/infiniband/hw/ipath/ib\_ipath.ko needs unknown symbol find\_first\_bit

WARNING:  
/lib/modules/2.6.18-53.1.19.el5.028stab053.14/kernel/drivers/infiniband/hw/ipath/ib\_ipath.ko needs unknown symbol strcat

WARNING:  
/lib/modules/2.6.18-53.1.19.el5.028stab053.14/kernel/drivers/infiniband/hw/ipath/ib\_ipath.ko needs unknown symbol mem\_section

WARNING:  
/lib/modules/2.6.18-53.1.19.el5.028stab053.14/kernel/drivers/infiniband/hw/ipath/ib\_ipath.ko needs unknown symbol copy\_to\_user

WARNING:  
/lib/modules/2.6.18-53.1.19.el5.028stab053.14/kernel/drivers/infiniband/hw/ipath/ib\_ipath.ko needs unknown symbol strncpy

WARNING:  
/lib/modules/2.6.18-53.1.19.el5.028stab053.14/kernel/drivers/infiniband/hw/ipath/ib\_ipath.ko needs unknown symbol \_\_memcpy

WARNING:  
/lib/modules/2.6.18-53.1.19.el5.028stab053.14/kernel/drivers/infiniband/hw/ipath/ib\_ipath.ko needs unknown symbol alloc\_pages\_cur                   rent

WARNING: /lib/modules/2.6.18-53.1.19.el5.028stab053.14/kernel/drivers/pci/hotplug/shpchp.ko needs unknown symbol strcpy

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Subject: Re: Kernel Upgrade fails  
Posted by [johan\\_hammy](#) on Sun, 01 Jun 2008 04:51:50 GMT  
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```
[root@Aiur ~]# tail -f /var/log/serial.log  
Memory for crash kernel (0x0 to 0x0) notwithin permissible range
```

```
..MP-BIOS bug: 8254 timer not connected to IO-APIC
```

PCI: BIOS Bug: MCFG area at e0000000 is not E820-reserved

PCI: Not using MMCONFIG.

ACPI: Getting cpuindex for acpiid 0x1

ACPI: Getting cpuindex for acpiid 0x2

ypowernow-k8: MP systems not supported by PSB BIOS structure

powernow-k8: MP systems not supported by PSB BIOS structure

request\_module: runaway loop modprobe binfmt-464c

request\_module: runaway loop modprobe binfmt-464c

request\_module: runaway loop modprobe binfmt-464c

request\_module: runaway loop modprobe binfmt-464c

request\_module: runaway loop modprobe binfmt-464c

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Subject: Re: Kernel Upgrade fails

Posted by [johan\\_hammy](#) on Sun, 01 Jun 2008 06:48:18 GMT

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I updated this BIOS, and now I get this. I tried apic=debug, but it balked at it.

Memory for crash kernel (0x0 to 0x0) notwithin permissible range

Unknown genapic `apic=debug' specified.

..MP-BIOS bug: 8254 timer not connected to IO-APIC

Kernel panic - not syncing: IO-APIC + timer doesn't work! Boot with apic=debug and send a report. Then try booting with the 'noapic' option

Memory for crash kernel (0x0 to 0x0) notwithin permissible range

PCI: BIOS Bug: MCFG area at e0000000 is not E820-reserved

PCI: Not using MMCONFIG.

ÿrequest\_module: runaway loop modprobe binfmt-464c

request\_module: runaway loop modprobe binfmt-464c

request\_module: runaway loop modprobe binfmt-464c

request\_module: runaway loop modprobe binfmt-464c

request\_module: runaway loop modprobe binfmt-464c

It only boots into the old kernel (Linux Char.ICS.local 2.6.18-53.1.6.el5.028stab053.6 #1 SMP Mon Feb 11 20:14:31 MSK 2008 x86\_64 x86\_64 x86\_64 GNU/Linux) with noapic. USB devices don't work once it finishes booting.

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**Subject: Re: Kernel Upgrade fails**

Posted by [vaverin](#) on Sun, 01 Jun 2008 17:36:36 GMT

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As far as I see your old kernel is x86\_64. Are you sure that new kernel is x86\_64 too?

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**Subject: Re: Kernel Upgrade fails**

Posted by [johan\\_hammy](#) on Sun, 01 Jun 2008 18:07:29 GMT

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I want my kernel to be x86\_64. I did a yum upgrade and this is what happened.

```
[root@Char ~]# rpm -qa | grep kernel
kernel-2.6.18-8.el5
ovzkernel-2.6.18-53.1.6.el5.028stab053.6
kernel-headers-2.6.18-53.1.21.el5
ovzkernel-devel-2.6.18-53.1.19.el5.028stab053.14
ovzkernel-2.6.18-53.1.19.el5.028stab053.14
ovzkernel-2.6.18-53.1.13.el5.028stab053.10
ovzkernel-2.6.18-53.1.19.el5.028stab053.14
ovzkernel-2.6.18-53.1.13.el5.028stab053.10
ovzkernel-2.6.18-53.1.6.el5.028stab053.6
ovzkernel-devel-2.6.18-53.1.19.el5.028stab053.14
```

Should I remove the rpms for all of the duplicates, but appending .i386 to the end if I want to remove all i386 kernels, leaving only x64 ones?

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**Subject: Re: Kernel Upgrade fails**

Posted by [vaverin](#) on Mon, 02 Jun 2008 04:28:58 GMT

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i386 kernels does not work on x86\_64 nodes: they cannot exec x86\_64 binary to load i386 modules -- it looks like your issue.

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Therefore I would advise you to remove these kernels.

thank you,  
Vasily Averin

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Subject: Re: Kernel Upgrade fails

Posted by [johan\\_hammy](#) on Mon, 02 Jun 2008 12:45:24 GMT

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I appended .i386 to each of those duplicate packages, and rpm ended silently with the packages still there. How do I get rid of them?

```
[root@Char ~]# rpm -qa | grep kernel
kernel-2.6.18-8.el5
ovzkernel-2.6.18-53.1.6.el5.028stab053.6
kernel-headers-2.6.18-53.1.21.el5
ovzkernel-devel-2.6.18-53.1.19.el5.028stab053.14
ovzkernel-2.6.18-53.1.19.el5.028stab053.14
ovzkernel-2.6.18-53.1.13.el5.028stab053.10
ovzkernel-2.6.18-53.1.19.el5.028stab053.14
ovzkernel-2.6.18-53.1.13.el5.028stab053.10
ovzkernel-2.6.18-53.1.6.el5.028stab053.6
ovzkernel-devel-2.6.18-53.1.19.el5.028stab053.14
[root@Char ~]# rpm -e ovzkernel-2.6.18-53.1.6.el5.028stab053.6.i386
[root@Char ~]# rpm -e ovzkernel-devel-2.6.18-53.1.19.el5.028stab053.14.i386
[root@Char ~]# rpm -e ovzkernel-2.6.18-53.1.13.el5.028stab053.10.i386
[root@Char ~]# rpm -e ovzkernel-2.6.18-53.1.19.el5.028stab053.14.i386
[root@Char ~]# rpm -qa | grep kernel
kernel-2.6.18-8.el5
ovzkernel-2.6.18-53.1.6.el5.028stab053.6
kernel-headers-2.6.18-53.1.21.el5
ovzkernel-devel-2.6.18-53.1.19.el5.028stab053.14
ovzkernel-2.6.18-53.1.19.el5.028stab053.14
ovzkernel-2.6.18-53.1.13.el5.028stab053.10
ovzkernel-2.6.18-53.1.19.el5.028stab053.14
ovzkernel-2.6.18-53.1.13.el5.028stab053.10
ovzkernel-2.6.18-53.1.6.el5.028stab053.6
ovzkernel-devel-2.6.18-53.1.19.el5.028stab053.14
[root@Char ~]# rpm -e ovzkernel-devel-2.6.18-53.1.19.el5.028stab053.14
error: "ovzkernel-devel-2.6.18-53.1.19.el5.028stab053.14" specifies multiple packages
```

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Subject: Re: Kernel Upgrade fails

Posted by [vaverin](#) on Mon, 02 Jun 2008 13:37:44 GMT

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Could you please show the output of the followin command:  
rpm -q ovzkernel --qf "%{NAME}-%{VERSION}-%{RELEASE}-%{ARCH}\n"

thank you,  
Vasily Averin

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**Subject: Re: Kernel Upgrade fails**  
Posted by [johan\\_hammy](#) on Mon, 02 Jun 2008 13:43:38 GMT  
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```
[root@Char ~]# rpm -q ovzkernel --qf "%{NAME}-%{VERSION}-%{RELEASE}-%{ARCH}\n"
ovzkernel-2.6.18-53.1.6.el5.028stab053.6.i686
ovzkernel-2.6.18-53.1.6.el5.028stab053.6.x86_64
ovzkernel-2.6.18-53.1.13.el5.028stab053.10.x86_64
ovzkernel-2.6.18-53.1.13.el5.028stab053.10.i686
ovzkernel-2.6.18-53.1.19.el5.028stab053.14.x86_64
ovzkernel-2.6.18-53.1.19.el5.028stab053.14.i686
```

So they are .i686 instead of .i386... I'll remove those packages.

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**Subject: Re: Kernel Upgrade fails**  
Posted by [johan\\_hammy](#) on Mon, 02 Jun 2008 13:53:54 GMT  
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```
[root@Char ~]# rpm -e ovzkernel-2.6.18-53.1.6.el5.028stab053.6.i686
ovzkernel-2.6.18-53.1.13.el5.028stab053.10.i686
ovzkernel-2.6.18-53.1.19.el5.028stab053.14.i686
[root@Char ~]# rpm -q ovzkernel --qf "%{NAME}-%{VERSION}-%{RELEASE}-%{ARCH}\n"
ovzkernel-2.6.18-53.1.6.el5.028stab053.6.x86_64
ovzkernel-2.6.18-53.1.13.el5.028stab053.10.x86_64
ovzkernel-2.6.18-53.1.19.el5.028stab053.14.x86_64
```

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**Subject: Re: Kernel Upgrade fails**  
Posted by [johan\\_hammy](#) on Mon, 02 Jun 2008 14:25:40 GMT  
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Upon removing the x86\_64 kernels, rpm removed everything from /etc/grub.conf. The only way I knew to get it back in was to remove the current stable x64 kernel packages and reinstall them by downloading from the web site and installing by rpm instead of yum.

```
[root@Char ~]# uname -a
Linux Char.ICS.local 2.6.18-53.1.19.el5.028stab053.14 #1 SMP Thu May 8 16:29:13 MSD 2008
x86_64 x86_64 x86_64 GNU/Linux
```

Memory for crash kernel (0x0 to 0x0) notwithin permissible range

PCI: BIOS Bug: MCFG area at e0000000 is not E820-reserved

PCI: Not using MMCONFIG.

ACPI: Getting cpuindex for acpiid 0x1

ACPI: Getting cpuindex for acpiid 0x2

ypowernow-k8: MP systems not supported by PSB BIOS structure

powernow-k8: MP systems not supported by PSB BIOS structure

ip\_tables: (C) 2000-2006 Netfilter Core Team

Netfilter messages via NETLINK v0.30.

ip\_conntrack version 2.4 (8192 buckets, 65536 max) - 312 bytes per conntrack

So the system boots into the proper kernel now. That's the output of the remote console. Is there anything there I should be concerned with? APIC is disabled in the BIOS, otherwise I had to specify noapic in the kernel options.

---