
Subject: New Kernel 2.6.24 out
Posted by [mperkel](#) on Sun, 02 Mar 2008 03:00:11 GMT
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Thanks for the new 2.6.24 kernel I'm going to try it out and see how it works. Maybe others can join this thread and report on their experiences.

Subject: Re: New Kernel 2.6.24 out
Posted by [Vasily Tarasov](#) on Mon, 03 Mar 2008 05:31:46 GMT
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Binary RPM works fine for me. However I encountered the following problems while compiling OpenVZ 2.6.24 kernel from sources:

1) config that is provided at wiki.openvz.org is definitely not appropriate for sources - Kconfig system still asks a lot of questions.
2) CONFIG_SIM_FS is missing in Kconfig file, so it's impossible to compile simfs without editing Kconfig manually.

3) Compilation fails:

```
/home/vass/linux-2.6.24-openvz/include/linux/freezer.h:72: undefined reference to `refrigerator'
/home/vass/linux-2.6.24-openvz/include/linux/freezer.h:72: undefined reference to `refrigerator'
kernel/built-in.o: In function `try_to_freeze':
/home/vass/linux-2.6.24-openvz/include/linux/freezer.h:72: undefined reference to `refrigerator'
/home/vass/linux-2.6.24-openvz/include/linux/freezer.h:72: undefined reference to `refrigerator'
/home/vass/linux-2.6.24-openvz/include/linux/freezer.h:72: undefined reference to `refrigerator'
kernel/built-in.o:/home/vass/linux-2.6.24-openvz/include/linux/freezer.h:72: more undefined
references to `refrigerator' follow
```

```
make: *** [.tmp_vmlinux1] Error 1
```

Switching CONFIG_VZ_CHECKPOINT off helps to continue compilation.

4) OpenVZ related warnings while compilation:

```
kernel/bc/proc.c:102: warning: 'bc_debug_entry' defined but not used
kernel/cpt/cpt_net.c:373: warning: 'dumpfn' defined but not used
```

Subject: Re: New Kernel 2.6.24 out
Posted by [adobriyan](#) on Mon, 03 Mar 2008 09:33:01 GMT
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configs from http://wiki.openvz.org/Download_kernel_2.6.24 were used.

In fact kernel-2.6.24-ovz002.2.src.rpm contains them.

Subject: Re: New Kernel 2.6.24 out

Posted by [swindmill](#) on Mon, 03 Mar 2008 15:36:58 GMT

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I have compiled 2.6.24 + the OpenVZ patches for a non-production server running Debian Etch and haven't had any major issues as of yet.

I wasn't able to access my virtual environments via network from outside of the host node until I added this to my /etc/sysctl.conf:

```
net.ipv4.conf.all.forwarding=1
```

It seems that setting net.ipv4.conf.default.forwarding=1 is not enough for this kernel version, although this worked for my previous 2.6.18 based kernel.

Subject: Re: New Kernel 2.6.24 out

Posted by [mperkel](#) on Mon, 03 Mar 2008 16:10:34 GMT

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For what it's worth I'm running it on 2 of my servers and it's working for me. I'm waiting a little while just to see if a new version gets posted to fix new problems.

Subject: Re: New Kernel 2.6.24 out

Posted by [adobriyan](#) on Mon, 03 Mar 2008 16:16:12 GMT

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This very well can be kernel bug.
Let me check.

Subject: Re: New Kernel 2.6.24 out

Posted by [aTan](#) on Mon, 03 Mar 2008 19:59:16 GMT

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Hi, trying to compile it on a x86_64 Gentoo:

```
MODPOST vmlinux.o
GEN    .version
CHK    include/linux/compile.h
UPD    include/linux/compile.h
CC      init/version.o
LD      init/built-in.o
LD      vmlinux
arch/x86/kernel/built-in.o: In function `do_notify_resume':
```

```
(.text+0x185f): undefined reference to `refrigerator'
kernel/built-in.o: In function `do_fork_pid':
(.text+0x8cf3): undefined reference to `refrigerator'
kernel/built-in.o: In function `finish_stop':
signal.c:(.text+0x1644a): undefined reference to `refrigerator'
kernel/built-in.o: In function `ptrace_stop':
signal.c:(.text+0x165d0): undefined reference to `refrigerator'
kernel/built-in.o: In function `worker_thread':
workqueue.c:(.text+0x1c768): undefined reference to `refrigerator'
kernel/built-in.o:statd.c:(.text+0x2ccb6): more undefined references to `refrigerator' follow
make: *** [vmlinux] Error 1
```

Subject: Re: New Kernel 2.6.24 out
Posted by [iansison](#) on Tue, 04 Mar 2008 05:29:51 GMT
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Hi - i tried compiling for my 64Bit Intel box - there's a compile error on DRBD -

```
In file included from drivers/block/drbd/drbd_bitmap.c:34:
drivers/block/drbd/drbd_int.h:751:1: warning: "BIT" redefined
In file included from drivers/block/drbd/drbd_bitmap.c:27:
include/linux/bitops.h:6:1: warning: this is the location of the previous definition
In file included from drivers/block/drbd/drbd_bitmap.c:34:
drivers/block/drbd/drbd_int.h:777: warning: 'request_queue_t' is deprecated
In file included from drivers/block/drbd/drbd_int.h:1159,
      from drivers/block/drbd/drbd_bitmap.c:34:
drivers/block/drbd/drbd_compat_wrappers.h: In function 'drbd_generic_make_request':
drivers/block/drbd/drbd_compat_wrappers.h:130: error: too many arguments to function
'bio_endio'
drivers/block/drbd/drbd_compat_wrappers.h:135: error: too many arguments to function
'bio_endio'
drivers/block/drbd/drbd_compat_wrappers.h: In function 'drbd_plugin_device':
drivers/block/drbd/drbd_compat_wrappers.h:142: warning: 'request_queue_t' is deprecated
In file included from drivers/block/drbd/drbd_bitmap.c:34:
drivers/block/drbd/drbd_int.h: At top level:
drivers/block/drbd/drbd_int.h:1272: warning: 'request_queue_t' is deprecated
drivers/block/drbd/drbd_int.h:1274: warning: 'request_queue_t' is deprecated
drivers/block/drbd/drbd_int.h:1903: warning: 'request_queue_t' is deprecated
drivers/block/drbd/drbd_bitmap.c: In function 'drbd_bm_page_io_async':
drivers/block/drbd/drbd_bitmap.c:656: warning: assignment from incompatible pointer type
drivers/block/drbd/drbd_bitmap.c:660: error: too many arguments to function 'bio_endio'
make[3]: *** [drivers/block/drbd/drbd_bitmap.o] Error 1
make[2]: *** [drivers/block/drbd] Error 2
make[1]: *** [drivers/block] Error 2
```

make: *** [drivers] Error 2

Subject: Re: New Kernel 2.6.24 out
Posted by [adobriyan](#) on Tue, 04 Mar 2008 08:49:50 GMT
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Make sure CONFIG_PM_SLEEP is set.

Subject: Re: New Kernel 2.6.24 out
Posted by [aTan](#) on Tue, 04 Mar 2008 09:43:40 GMT
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It is. Here is my config:
<http://www.pastebin.cz/show/4092>

Subject: Re: New Kernel 2.6.24 out
Posted by [adobriyan](#) on Tue, 04 Mar 2008 12:36:01 GMT
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Fix was pushed out

"CPT: select PM as well"
<http://git.openvz.org/?p=linux-2.6.24-openvz;a=commitdiff;h=15938557b7ee1cebc893c676e0574a990fb79947>

Subject: Re: New Kernel 2.6.24 out
Posted by [aTan](#) on Tue, 04 Mar 2008 15:06:52 GMT
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after applying got this (bzImage is ok):

```
ERROR: "sys_open" [kernel/cpt/vzrst.ko] undefined!  
ERROR: "sys_open" [kernel/cpt/vzcpt.ko] undefined!  
make[1]: *** [__modpost] Error 1  
make: *** [modules] Error 2  
make: *** Waiting for unfinished jobs....
```

Subject: Re: New Kernel 2.6.24 out

Posted by [adobriyan](#) on Tue, 04 Mar 2008 16:16:51 GMT

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Are you using kernel from git?

Fix for this already there, too:

`http://10.30.101.105/cgi-bin/gitweb.cgi?p=kernel-2.6.24
;a=commitdiff;h=29ec264a595bb385ce4818a31a01987b3b31fd9c;hp=
73980b5b87e7619ba49364d2618b25d4f4bd8450`

Subject: Re: New Kernel 2.6.24 out

Posted by [aTan](#) on Tue, 04 Mar 2008 19:24:15 GMT

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No, I've just patched openvz kernel sources from gentoo portage. Could you please fix the link, it has internal IP. Thanks.

EDIT: nevermind, cloning from git.

EDIT2: compiled, will try tomorrow, thanks.

Subject: Re: New Kernel 2.6.24 out

Posted by [curx](#) on Tue, 04 Mar 2008 21:23:58 GMT

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Hi,

let's share experience with OpenVZ 2.6.24:

I've taken the kernel-source from git `http://git.openvz.org/?p=linux-2.6.24-openvz;a=summary`
and kernel config from `http://download.openvz.org/kernel/branches/2.6.24/2.6.24-ovz
002.2/configs/kernel-2.6.24-i686.config.ovz` and built that kernel on a Debian Stable 4.0 aka etch:

- * CT/VE checkpointing and restore works
- * add/del IPv4 IP works, IPv6 can't be used in CT/VE at the moment
- * some kernel errors/failing occurs, will be described at bugzilla.

For testing only, a debian gpg-signed git(ty) repository can be found at:

`http://debian.systs.org/debian gitty openvz`

Subject: Re: New Kernel 2.6.24 out

Posted by [adobriyan](#) on Wed, 05 Mar 2008 11:45:16 GMT

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Bugzilla is working again.

Subject: Re: New Kernel 2.6.24 out
Posted by [aTan](#) on Wed, 05 Mar 2008 11:48:49 GMT
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what is err=-5?

```
$ vzctl start 104
Starting VE ...
VE is mounted
VE start failed
VE is unmounted
$ dmesg
IMQ: Error trying imq_init_devs(net)
CT: 104: stopped
CT: 104: failed to start with err=-5
```

/var/log/vzctl.log:

```
2008-03-05T12:41:22+0100 vzctl : VE 104 : Starting VE ...
2008-03-05T12:41:22+0100 vzctl : VE 104 : Running: /usr/sbin/vzquota show 104
2008-03-05T12:41:22+0100 vzctl : VE 104 : Running: /usr/sbin/vzquota on 104 -r 0 -b 1048676 -B
1153124 -i 200100 -l 220100 -e 0 -n 0 -s 0
2008-03-05T12:41:22+0100 vzctl : VE 104 : Mounting root: /vz/root/104 /vz/private/104
2008-03-05T12:41:22+0100 vzctl : VE 104 : VE is mounted
2008-03-05T12:41:22+0100 vzctl : VE 104 : Set iptables mask 0x000017bf
2008-03-05T11:41:22+0000 vzctl : VE 104 : Set features mask
0000000000000000/0000000000000000
2008-03-05T12:41:23+0100 vzctl : VE 104 : VE start failed
2008-03-05T12:41:23+0100 vzctl : VE 104 : Running: /usr/sbin/vzquota stat 104 -f
2008-03-05T12:41:23+0100 vzctl : VE 104 : Running: vzquota setlimit 104 -b 1048576 -B
1153024 -i 200000 -l 220000 -e 0 -n 0
2008-03-05T12:41:23+0100 vzctl : VE 104 : Running: /usr/sbin/vzquota stat 104 -f
2008-03-05T12:41:23+0100 vzctl : VE 104 : Running: /usr/sbin/vzquota off 104
2008-03-05T12:41:23+0100 vzctl : VE 104 : VE is unmounted
```

Subject: Re: New Kernel 2.6.24 out
Posted by [adobriyan](#) on Wed, 05 Mar 2008 15:49:42 GMT
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Please post output from this script in VE0 after fresh boot

on .18 and .24 kernels:

```
for i in $(ls /proc/sys/net/ipv4/conf/*/forwarding); do
    echo $i
    cat $i
done
```

and in VE too, just in case. Does Etch runs sysctl
init script before starting netdevices in both cases?

Regardless, relying on "default" is not wise, because
you're on mercy of init scripts ordering.
I'd suggest net.ipv4.conf.all.forwarding=1 or
net.ipv4.ip_forward=1.

Subject: Re: New Kernel 2.6.24 out
Posted by [aTan](#) on Thu, 06 Mar 2008 16:41:01 GMT
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If it was on me, I have only .24:

VE

```
localhost / # for i in $(ls /proc/sys/net/ipv4/conf/*/forwarding); do
> echo $i
> cat $i
> done
/proc/sys/net/ipv4/conf/all/forwarding
0
/proc/sys/net/ipv4/conf/default/forwarding
0
/proc/sys/net/ipv4/conf/lo/forwarding
0
/proc/sys/net/ipv4/conf/sit0/forwarding
0
/proc/sys/net/ipv4/conf/venet0/forwarding
0
```

HN

```
/proc/sys/net/ipv4/conf/all/forwarding
1
/proc/sys/net/ipv4/conf/default/forwarding
1
/proc/sys/net/ipv4/conf/eth0/forwarding
1
/proc/sys/net/ipv4/conf/eth1/forwarding
1
```

```
/proc/sys/net/ipv4/conf/eth2/forwarding
1
/proc/sys/net/ipv4/conf/eth3/forwarding
1
/proc/sys/net/ipv4/conf/eth4/forwarding
1
/proc/sys/net/ipv4/conf/eth5/forwarding
1
/proc/sys/net/ipv4/conf/ifb0/forwarding
1
/proc/sys/net/ipv4/conf/ifb1/forwarding
1
/proc/sys/net/ipv4/conf/lo/forwarding
1
/proc/sys/net/ipv4/conf/sit0/forwarding
1
/proc/sys/net/ipv4/conf/tap0/forwarding
1
/proc/sys/net/ipv4/conf/venet0/forwarding
1
```

I've managed to boot openvz .24 kernel (current git), no kernel panic at this time, but I have a problem. Neither server, nor people behind the nat cannot connect to remote ftp servers. Also I had to copy /dev/* to VE and set static devices in config. VE (gentoo template) udev doesn't create anything.

dmesg:

```
nf_conntrack: expectation table full<4>nf_conntrack: expectation table full<4>nf_conntrack:
expectation table full<4>nf_conntrack: expectation table full<4>nf_conntrack: expectation table
full<4>nf_conntrack: expectation table full<4>nf_conntrack: expectation table full<4>nf_conntrack:
expectation table full<4>nf_conntrack: expectation table full<4>nf_conntrack: expectation table
full<4>printk: 126502 messages suppressed.
nf_conntrack: expectation table full
```

Subject: Re: New Kernel 2.6.24 out
Posted by [adobriyan](#) on Fri, 07 Mar 2008 10:19:09 GMT
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File separate bugs at bugzilla describing setup and we tackle them one by one.

Subject: Re: New Kernel 2.6.24 out

Posted by [aTan](#) on Fri, 07 Mar 2008 10:55:32 GMT

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Done

Subject: Re: New Kernel 2.6.24 - DRBD

Posted by [wpeckham](#) on Fri, 07 Mar 2008 14:10:59 GMT

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I downloaded and installed the kernel on a fresh install of Fedora 8. (running i686 on Pentium 4 with 512 MB ram)

Everything seemed to work until I wanted to look at the DRBD module. There is none. Are we not supporting DRBD for this kernel?

Subject: Re: New Kernel 2.6.24 - DRBD

Posted by [aTan](#) on Fri, 07 Mar 2008 14:53:39 GMT

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The compilation of this module failed when I tried to do it.

EDIT: tried now and ok.

EDIT2: it's not ok, it was disabled in kernel.

Subject: Re: New Kernel 2.6.24 - DRBD

Posted by [iansison](#) on Fri, 07 Mar 2008 18:40:00 GMT

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Below is a patch which ups the DRBD version included in the 2.6.24-ovz002.2 patch to 8.0.11, which compiles for me. Apply this patch over 2.6.24-ovz002.2.

<http://202.8.254.24/patch-ovz002.2-drbd-upgradeto-8.0.11.bz2>

According to drbd changelog:

8.0.9 (api:86/proto:86)

...

38 * Made it to compile on Linux-2.6.24.

Which brings me to the question.. Are there any openvz mods for drbd? I'm not sure, someone clue me in..

Subject: Re: New Kernel 2.6.24 - DRBD
Posted by [aTan](#) on Fri, 07 Mar 2008 19:51:26 GMT
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Current git version doesn't contain drbd at all. So patch is useless for it.

Subject: Re: New Kernel 2.6.24 - DRBD
Posted by [wpeckham](#) on Fri, 07 Mar 2008 20:27:45 GMT
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Thanks for the info! I think that I will have to back down to kernel-2.6.18 until I can give this more time.

We need a server distro that incorporates the patches and modules to support OpenVZ and DRBD! When I start working 42 hour days....
