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Subject: Disable module support in kernel  
Posted by [steffen.zieger](#) on Fri, 10 Feb 2006 15:30:03 GMT  
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Hello,

I've tried to install openvz-kernel 2.6.8-022.064.1.

In my .config, module support is disabled. If I'm trying to compile my kernel, compiling is aborted with an error message (have a look at [http://bugzilla.openvz.org/show\\_bug.cgi?id=96](http://bugzilla.openvz.org/show_bug.cgi?id=96)).

If module support is enabled, everything works fine.

Is any patch available, to compile the kernel with module support disabled?

TIA,  
Steffen

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Subject: Re: Disable module support in kernel  
Posted by [dim](#) on Fri, 10 Feb 2006 16:36:38 GMT  
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Patch is attached to bugzilla. Bug is not closed till next kernel release.

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Subject: Re: Disable module support in kernel  
Posted by [steffen.zieger](#) on Fri, 10 Feb 2006 21:47:39 GMT  
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dim wrote on Fri, 10 February 2006 17:36Patch is attached to bugzilla. Bug is not closed till next kernel release.

Well, maybe it is, but I'm not able to find any link on Bug 52 to download a file.

Is it only me?

TIA,  
Steffen

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Subject: Re: Disable module support in kernel  
Posted by [dev](#) on Mon, 13 Feb 2006 07:32:47 GMT

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bug #96 is about gcc4.x compilation  
bug #52 is about compilation `_without_` virtualization.

I suppose you compile kernel `_with_` virtualization. So it have nothing to do with both bugs.

So can you provide your build error messages and `.config` file?

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Subject: Re: Disable module support in kernel  
Posted by [steffen.zieger](#) on Mon, 13 Feb 2006 10:43:51 GMT  
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dev wrote on Mon, 13 February 2006 08:32bug #96 is about gcc4.x compilation  
bug #52 is about compilation `_without_` virtualization.

I suppose you compile kernel `_with_` virtualization. So it have nothing to do with both bugs.

So can you provide your build error messages and `.config` file?

Have a look at bug #52. It's about broken Kconfig depends, not about compiling openvz-patched kernel without virtualization (does anybody wants this and, if yes, why? ).

The error messages are the same shown in comment #2 on bug #52. If I disable module support (`CONFIG_MODULES=no`) `ve.c` breaks compile because the storage size of `no_module` isn't known.

Trust me, bug #52 is the right bug, but I'm not able to find download links for the diffs mentioned in that bug.

TIA,  
Steffen

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Subject: Re: Disable module support in kernel  
Posted by [dev](#) on Mon, 13 Feb 2006 10:50:03 GMT  
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Oh, I see. we only partially fixed it  
Out of curiosity, why do you want to compile without modules so much?

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Subject: Re: Disable module support in kernel  
Posted by [steffen.zieger](#) on Mon, 13 Feb 2006 11:39:26 GMT  
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dev wrote on Mon, 13 February 2006 11:50 Oh, I see. we only partially fixed it  
Out of curiosity, why do you want to compile without modules so much?

Because it's a server. Some rootkits are using modules to hide process and files. But if module support is disabled, there isn't any possibility to use modules.

And: I need no module support on a server. It is an error coming from openvz, so it should be fixed.

What about that diffs mentioned in bug #52? Can I get them anywhere, so I can try them. Maybe I can help, fixing this bugs.

But I don't like to do work twice, so this is my main reason, why I'm wanting this diffs.

TIA,  
Steffen

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Subject: Re: Disable module support in kernel  
Posted by [dev](#) on Mon, 13 Feb 2006 13:17:57 GMT  
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inside the VPS module loading is prohibited.  
This is the reason, why we don't care.  
In host we don't recommend to run anything, except for ssh maybe.  
But I see your concern.

I have these patches. Where can I sent them to you?

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Subject: Re: Disable module support in kernel  
Posted by [steffen.zieger](#) on Mon, 13 Feb 2006 13:22:27 GMT  
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dev wrote on Mon, 13 February 2006 14:17 inside the VPS module loading is prohibited.  
This is the reason, why we don't care.  
In host we don't recommend to run anything, except for ssh maybe.  
But I see your concern.

I have these patches. Where can I sent them to you?

steffen at steffenspage dot de.

I'm thinking about securing the host. SSH is written by human, maintained by humans... failures may exist. If I'm able to disable some bad things, I want to.

That's all.

Thanks for helping. Will report if it's working.  
And: OpenVZ is great work. Thanks for it.

HAND,  
Steffen

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Subject: Re: Disable module support in kernel  
Posted by [dev](#) on Mon, 13 Feb 2006 13:36:20 GMT  
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thank you too!  
I sent you patches. They are against older kernel, but should apply with minimal efforts.  
I didn't commit them only because, had no time and didn't think it is really required by anyone

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Subject: Re: Disable module support in kernel  
Posted by [steffen.zieger](#) on Mon, 13 Feb 2006 15:43:39 GMT  
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Ok, here is the first error message, for which I couldn't find a patch in bug #52.

```
kernel/built-in.o: In function `init_ve_sysfs':  
vecalls.c:(.text+0x23598): undefined reference to `sysfs_fs_type'  
make: *** [.tmp_vmlinux1] Error 1
```

This message appears, if sysfs-option is selected and openvz isn't compiled as module.

HTH,  
Steffen

PS: Will have a look at it later this day.

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Subject: Re: Disable module support in kernel  
Posted by [steffen.zieger](#) on Mon, 13 Feb 2006 15:51:28 GMT  
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The order of VPS filesystem and Virtuozzo Disk Quota under File systems is wrong.

Try to select VPS filesystem if Virtuozzo Disk Quota support is not selected in kernel.  
You can't because it is not shown.

---

Now select Virtuoizzo Disk Quota support as module.  
Try to compile VPS filesystem in the kernel (not as module).  
You can't because Virtuoizzo Disk Quota is a module.

Select Virtuoizzo Disk Quota support.  
Over Virtuoizzo Disk Quota support you can find VPS filesystem?!?

This is all tested with menuconfig.

So, maybe the appearance of the options is disordered or something else is wrong.

Is VPS filesystem support needed for Virtuoizzo Disk Quota support? If yes, there is a problem with Kconfig depends

Hope you understand, what I mean.

---

Subject: Re: Disable module support in kernel  
Posted by [dev](#) on Mon, 13 Feb 2006 16:19:47 GMT  
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just remove "static" in fs/sysfs/mount.c in line:  
static struct file\_system\_type sysfs\_fs\_type = {

---

Subject: Re: Disable module support in kernel  
Posted by [steffen.zieger](#) on Mon, 13 Feb 2006 19:07:15 GMT  
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dev wrote on Mon, 13 February 2006 17:19 just remove "static" in fs/sysfs/mount.c in line:  
static struct file\_system\_type sysfs\_fs\_type = {

Thanks. Fixed that problem.

HAND,  
Steffen

---

Subject: Re: Disable module support in kernel  
Posted by [steffen.zieger](#) on Mon, 13 Feb 2006 19:09:56 GMT  
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steffen.zieger wrote on Mon, 13 February 2006 16:51...Order of VPS filesystem and Virtuoizzo Disk Quota Support...

I've changed the order of both entries.  
Have a look at this patch, please.  
It should apply against 2.6.8-022.064

```
--- linux-2.6.8-openvz-022.064.orig/fs/Kconfig 2006-02-13 14:53:58.000000000 +0100
+++ linux-2.6.8-openvz-022.064/fs/Kconfig      2006-02-13 19:56:28.767007536 +0100
@@ -442,18 +442,10 @@
```

need this functionality say Y here. Note that you will need recent  
quota utilities (>= 3.01) for new quota format with this kernel.

```
-config SIM_FS
```

- tristate "VPS filesystem"
- depends on VZ\_QUOTA
- default m
- help
- This file system is a part of Virtuozzo. It introduces a fake
- superblock and blockdev to VE to hide real device and show
- statfs results taken from quota.
- 

```
config VZ_QUOTA
```

```
tristate "Virtuozzo Disk Quota support"
depends on QUOTA
```

```
+ select VZ_DEV
```

```
default m
```

```
help
```

Virtuozzo Disk Quota imposes disk quota on directories with their

```
@@ -474,6 +466,15 @@
```

```
depends on VZ_QUOTA!=n
```

```
default y
```

```
+config SIM_FS
```

- + tristate "VPS filesystem"
- + depends on VZ\_QUOTA
- + default m
- + help
- + This file system is a part of Virtuozzo. It introduces a fake
- + superblock and blockdev to VE to hide real device and show
- + statfs results taken from quota.
- +

```
config QUOTACTL
```

```
bool
```

```
depends on XFS_QUOTA || QUOTA
```

HTH,  
Steffen

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Subject: Re: Disable module support in kernel  
Posted by [dev](#) on Mon, 13 Feb 2006 19:13:32 GMT  
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patch looks correct, but does it change anything?  
if so, than it is probably kernel config bug... Or maybe I miss something?

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Subject: Re: Disable module support in kernel  
Posted by [steffen.zieger](#) on Mon, 13 Feb 2006 19:29:06 GMT  
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dev wrote on Mon, 13 February 2006 20:13patch looks correct, but does it change anything?  
if so, than it is probably kernel config bug... Or maybe I miss something?

Indeed it changes things.

Run `make menuconfig` -> File Systems -> Quota Support.

Have a look at it before and after applying this patch.  
VPS filesystem is getting an sub-entry of Virtuozzo Quota Disk Support as the Kconfig stated.

Well, it's clearing things up. No feature-addition or bug-fixing-thingie.

Everything is compiling nicely as long as CONFIG\_MODULE=y.  
OpenVz is fully integrated in kernel, no modules. This wasn't possible without applying this  
patches you send me (will tell later which one ).

If I'm disabling module support (CONFIG\_MODULE=n) compile breaks with this error message  
(mostly the same as in bug #52)

Quote: CC kernel/ve.o  
kernel/ve.c:42: error: variable `no\_module' has initializer but incomplete type  
kernel/ve.c:42: error: unknown field `state' specified in initializer  
kernel/ve.c:42: error: `MODULE\_STATE\_GOING' undeclared here (not in a function)  
kernel/ve.c:42: warning: excess elements in struct initializer  
kernel/ve.c:42: warning: (near initialization for `no\_module')  
kernel/ve.c:42: error: storage size of `no\_module' isn't known  
make[1]: \*\*\* [kernel/ve.o] Error 1  
make: \*\*\* [kernel] Error 2

Patches used:  
diff-module-20051118 (should fix CONFIG\_MODULE=n)  
diff-ve-calls-20051019 (CONFIG\_VE\_CALLS=y)  
diff-vzdev-20051021-2 (CONFIG\_VE\_NETDEV=y)

HTH,

Steffen

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Subject: Re: Disable module support in kernel  
Posted by [dev](#) on Mon, 13 Feb 2006 19:33:44 GMT  
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add these 2 lines from kernel/ve.c:

```
+#ifdef CONFIG_MODULES
struct module no_module = { .state = MODULE_STATE_GOING };
EXPORT_SYMBOL(no_module);
+#endif
```

---

Subject: Re: Disable module support in kernel  
Posted by [steffen.zieger](#) on Mon, 13 Feb 2006 22:23:12 GMT  
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Adding these 2 lines fixed the compile problem.

Are there any patches left, which I can check, if everything is working on this subject?

I will test, if the kernel is running without problems and if virtualization is working. If there are any errors, I will tell.

After testing the kernel, I will try (hopefully) any possible combination of OpenVZ as module or not compiled in.

HAND,  
Steffen

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Subject: Re: Disable module support in kernel  
Posted by [devnu11](#) on Mon, 13 Feb 2006 23:26:17 GMT  
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Interesting, I like this approach of no modules to "tighten" hardware node. I've never custom compiled my own kernel except with Gentoo wiki. Anyone know of a nice Wiki/HowTo which would be helpful? Once I get started I'll worry about the patches and how to apply them. Steffen, you have the right idea, security is paramount. Closing possible threats before they happen is great. TIA

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Subject: Re: Disable module support in kernel  
Posted by [dev](#) on Tue, 14 Feb 2006 07:32:53 GMT  
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I have no more patches, the latter were from my mind already  
Thanks a lot! If there will be any other problems give me to know, I will help with it.

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Subject: Re: Disable module support in kernel  
Posted by [dev](#) on Tue, 14 Feb 2006 07:34:09 GMT  
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Once Steffen is ready, I hope he will gather a full patch.

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Subject: Re: Disable module support in kernel  
Posted by [steffen.zieger](#) on Tue, 14 Feb 2006 10:40:48 GMT  
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dev wrote on Tue, 14 February 2006 08:34: Once Steffen is ready, I hope he will gather a full patch.

Sure. Here it is.

This patch should apply cleanly against 2.6.8-022.064.  
OpenVZ-2.6.8-022.064-no-module-support.diff

If you're running into an error message about `check_stack_overflow` (as I've done because of my self-created `.config`) have a look at bug #96

My "test most OpenVZ as modules or compiled in"-test is mostly successful. If you can find any errors, please let me know.

HTH,  
Steffen

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Subject: Re: Disable module support in kernel  
Posted by [steffen.zieger](#) on Tue, 14 Feb 2006 10:49:09 GMT  
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Ah, I've forgotten to mention, that this patch also fixes the Kconfig-order of VPS filesystem and Virtuozzo Disk Quota support.

This is, as I think, only visible if you're building your kernel config with menuconfig.

HAND,  
Steffen

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Subject: Re: Disable module support in kernel  
Posted by [duswil](#) on Sun, 09 Apr 2006 21:19:29 GMT  
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I didn't see any patches for the /etc/init.d/vz script, so I made one that supports the lack of modules. It could be taken farther to automatically detect things, but in this case, it's up to the user to handle dependencies and such. All it does is add some IF statements and a boolean.

The diff is attached.

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#### File Attachments

1) [initd.vz.patch](#), downloaded 419 times

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Subject: Re: Disable module support in kernel  
Posted by [dev](#) on Mon, 10 Apr 2006 06:36:07 GMT  
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duswil, can you please post patches to [devel@openvz.org](mailto:devel@openvz.org)

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