
Subject: ***SOLVED*** Missing Module vzdev, though selected in kernel config

Posted by [vipz](#) on Sun, 27 May 2007 11:05:54 GMT

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I'm new to openVZ and I'm trying it out following the howto's on:

http://wiki.openvz.org/Installation_on_Debian and http://wiki.openvz.org/Debian_template_creation

First time I started the VE, I get:

```
~ # vzctl start 777
```

```
Starting VPS ...
```

```
VPS is mounted
```

```
Adding IP address(es): 192.168.1.28
```

```
Unable to add IP 192.168.1.28: Inappropriate ioctl for device
```

```
Unable to del IP 192.168.1.28: Inappropriate ioctl for device
```

```
VPS start failed
```

```
Stopping VPS ...
```

```
VPS was stopped
```

```
VPS is unmounted
```

Ok, got that fixed, some module was missing:

```
~ # lsmod|grep vz
```

```
vzethdev          10152  0
```

```
vzmon             40328  1 vzethdev
```

```
ipv6              235456  15 vzmon
```

```
~ # modprobe vznetdev
```

```
~ # lsmod|grep vz
```

```
vznetdev          16384  0
```

```
vzethdev          10152  0
```

```
vzmon             40328  2 vznetdev,vzethdev
```

```
ipv6              235456  15 vzmon
```

Second try:

```
~ # vzctl start 777
```

```
Starting VPS ...
```

```
VPS is mounted
```

```
Adding IP address(es): 192.168.1.28
```

```
RTNETLINK answers: No such device
```

```
vps-net_add ERROR: Unable to add route /sbin/ip route add 192.168.1.28 dev venet0 src 192.168.1.27
```

```
VPS start failed
```

```
Stopping VPS ...
```

```
VPS was stopped
```

```
VPS is unmounted
```

Ok, another module is still missing, but I can't load it:

```
~ # modprobe vzdev
FATAL: Module vzdev not found.
```

The module simply isn't there:

```
~ # ls -la /lib/modules/2.6.18-2-openvz/kernel/kernel/ve/
total 68
drwxr-xr-x 2 root root 4096 2007-05-27 14:19 .
drwxr-xr-x 4 root root 4096 2007-05-27 14:19 ..
-rw-r--r-- 1 root root 48783 2007-05-27 14:16 vzmon.ko
-rw-r--r-- 1 root root 10133 2007-05-27 14:16 vzwdog.ko
```

Weird enough, I cannot select "CONFIG_VZ_DEV" via 'make menuconfig'. I adjusted it to "m" in the .config file, but this was ignored:

```
~ # grep -i vz /boot/config-2.6.18-2-openvz
# Linux kernel version: 2.6.18-2-openvz
CONFIG_VZ_QUOTA=y
CONFIG_VZ_QUOTA_UGID=y
# OpenVZ
CONFIG_VZ_GENCALLS=y
CONFIG_VZ_DEV=y
CONFIG_VZ_WDOG=m
CONFIG_VZ_CHECKPOINT=m
```

Anyone got a clue? I'm using Debian Etch's linux-sources and pathes.

Subject: Re: Missing Module vzdev, though selected in kernel config
Posted by [Vasily Tarasov](#) on Sun, 27 May 2007 11:28:18 GMT
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Ahem... Why do you load modules by hand? Run `/etc/init.d/vz start` command. It'll load all necessary modules and produce necessary tuning.

HTH,
Vasily.

Subject: Re: Missing Module vzdev, though selected in kernel config

Posted by [vipz](#) on Sun, 27 May 2007 11:35:39 GMT

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Vasily Tarasov wrote on Sun, 27 May 2007 13:28Ahem... Why do you load modules by hand?
Run `/etc/init.d/vz start` command. It'll load all necessary modules and produce necessary tuning.

HTH,
Vasily.

Sorry, forgot to write about that. It (also) doesn't work:

```
~ # /etc/init.d/vz start
Starting OpenVZ: ..failed
```

```
~ # tail /var/log/vzctl.log
2007-05-27T14:38:11+0200 vzctl : VPS 777 : Starting VPS ...
2007-05-27T14:38:11+0200 vzctl : VPS 777 : VPS is mounted
2007-05-27T14:38:11+0200 vzctl : VPS 777 : Adding IP address(es): 192.168.1.28
2007-05-27T14:38:12+0200 vzctl : VPS 777 : VPS start failed
2007-05-27T14:38:12+0200 vzctl : VPS 777 : Stopping VPS ...
2007-05-27T14:38:13+0200 vzctl : VPS 777 : VPS was stopped
2007-05-27T14:38:13+0200 vzctl : VPS 777 : VPS is unmounted
```

I think the problem lies somewhere at the kernel patching/configuration/compilation. For some reason it is not possible to set:

```
CONFIG_VZ_DEV=m
```

It keeps getting:

```
CONFIG_VZ_DEV=y
```

Even when I change it with an editor to "m".

Subject: Re: Missing Module vzdev, though selected in kernel config

Posted by [vipz](#) on Sun, 27 May 2007 12:08:55 GMT

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Using 'make menuconfig' I don't have the option to set the VE device to module:

	[*] Virtual Environment support (NEW)	
	<M> VE calls interface (NEW)	
	<M> VE network device (NEW)	
	<M> Virtual ethernet device (NEW)	

```

||          --- VE device
||          [*] VE netfiltering (NEW)
||          <M> VE watchdog module (NEW)

||          <M> Checkpointing & restoring Virtual Environments (NEW)
||

```

Help about "VE device" says:

```

| CONFIG_VZ_DEV:
|
| This option adds support of vzdev device, which is used by
|
| user-space applications to control Virtual Environments.
|
| Symbol: VZ_DEV [=y]
| Prompt: VE device
|   Defined at kernel/Kconfig.openvz:48
|   Location:
|     -> OpenVZ
|   Selected by: VZ_QUOTA && QUOTA || VE_CALLS && VE || VE_NETDEV && VE_CALLS &&
NET || VE_ETHDEV && VE_CALLS && NET

```

If I understand correctly "VZ_DEV" can't be made a module...

Subject: Re: Missing Module vzdev, though selected in kernel config

Posted by [vipz](#) on Sun, 27 May 2007 12:12:52 GMT

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vipz wrote on Sun, 27 May 2007 14:08

If I understand correctly "VZ_DEV" can't be made a module...

Not fully true, when I deselect (no support) "Quota" under "File systems", VE device is available for selection as a module.

Since I'm using http://wiki.openvz.org/Installation_on_Debian#or_build_your_own_kernel-image_.28debian_way.29 Quota support should be selected ... I'm lost..

Subject: Re: Missing Module vzdev, though selected in kernel config

Posted by [vipz](#) on Sun, 27 May 2007 12:23:59 GMT

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Via <http://blog.biondofu.net/?p=16> I found this config:

<http://netcorex.org/kernel/config-2.6.18-4-686-openvz>

It seemed this person isn't having the same trouble I experience (he is using the same patches and kernel sources). So I inspected his config.

```
CONFIG_VZ_QUOTA=m
CONFIG_VZ_QUOTA_UNLOAD=y
CONFIG_VZ_QUOTA_UGID=y
```

...

```
#
# OpenVZ
#
CONFIG_VE=y
CONFIG_VE_CALLS=m
CONFIG_VZ_GENCALLS=y
CONFIG_VE_NETDEV=m
CONFIG_VE_ETHDEV=m
CONFIG_VZ_DEV=m
CONFIG_VE_IPTABLES=y
CONFIG_VZ_WDOG=m
CONFIG_VZ_CHECKPOINT=m
```

Hmmzz .. So he sets "CONFIG_VZ_QUOTA" to be a module instead of including it in the kernel. After that, the VZ device *is* available for module selection.

See if this config will work, let's compile

Subject: Re: Missing Module vzdev, though selected in kernel config

Posted by [vipz](#) on Sun, 27 May 2007 12:44:38 GMT

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[vipz](#) wrote on Sun, 27 May 2007 14:23

Hmmzz .. So he sets "CONFIG_VZ_QUOTA" to be a module instead of including it in the kernel. After that, the VZ device *is* available for module selection.

Since I'm waiting for my kernel to compile, I can explain why I was somewhat staggered seeing that a working config had "CONFIG_VZ_QUOTA=m". The Howto I followed up (http://wiki.openvz.org/Installation_on_Debian#or_build_your_own_kernel-image_.28debian_way.29) said CONFIG_VZ_QUOTA should be included in the kernel .. is this a fault in the howto?

Hope to find out soon

Subject: Re: Missing Module vzdev, though selected in kernel config

Posted by [vipz](#) on Sun, 27 May 2007 13:09:46 GMT

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[vipz](#) wrote on Sun, 27 May 2007 14:44: [vipz](#) wrote on Sun, 27 May 2007 14:23

Hmmzz .. So he sets "CONFIG_VZ_QUOTA" to be a module instead of including it in the kernel. After that, the VZ device *is* available for module selection.

Since I'm waiting for my kernel to compile, I can explain why I was somewhat staggered seeing that a working config had "CONFIG_VZ_QUOTA=m". The Howto I followed up (http://wiki.openvz.org/Installation_on_Debian#or_build_your_own_kernel-image_.28debian_way.29) said CONFIG_VZ_QUOTA should be included in the kernel .. is this a fault in the howto?

Hope to find out soon

Problem solved!

Linux server 2.6.18-3-openvz #1 SMP Sun May 27 16:02:08 CEST 2007 i686

~ # vzlist -a

VPSID	NPROC	STATUS	IP_ADDR	HOSTNAME
777	-	stopped	192.168.1.28	-

~ # lsmod|grep vz

vznetdev	16384	1
vzethdev	10152	0
vzrst	118964	0
ip_nat	17712	1 vzrst
vzcpt	95620	0
ip_conntrack	56224	3 vzrst,ip_nat,vzcpt
vzdquota	36212	0 [permanent]
vzmon	40328	4 vznetdev,vzethdev,vzrst,vzcpt
vzdev	3588	4 vznetdev,vzethdev,vzdquota,vzmon
ipv6	235424	17 vzrst,vzcpt,vzmon

Guess I should update the wiki
