
Subject: Re: howto compile kernel with some special features ?

Posted by [dvazart](#) on Thu, 03 Sep 2009 13:32:20 GMT

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Hi !

Ok, the kernel is working now !

But, it isn't an enterprise kernel so I'm limited to 50 containers.

Do you have an enterprise kernel for x64 in your debian repository ?

I'm also trying to compile my own kernel, following this tutorial: http://wiki.openvz.org/Kernel_build

this is what I'm doing:

```
cd /usr/src
```

```
wget http://www.kernel.org/pub/linux/kernel/v2.6/linux-2.6.18.tar.bz2
```

```
wget
```

```
http://download.openvz.org/kernel/branches/rhel5-2.6.18/028stab064.4/patches/patch-128.2.1.el5.028stab064.4-combined.gz
```

```
tar vjxf linux-2.6.18.tar.bz2
```

```
cp patch-128.2.1.el5.028stab064.4-combined.gz linux-2.6.18
```

```
cd linux-2.6.18
```

```
gzip -dc patch-128.2.1.el5.028stab064.4-combined.gz | patch -p1
```

```
rm patch-128.2.1.el5.028stab064.4-combined.gz
```

```
wget
```

```
http://download.openvz.org/kernel/branches/rhel5-2.6.18/028stab064.4/configs/kernel-2.6.18-i686-ent.config.ovz -O .config
```

```
make oldconfig
```

```
make
```

And I got this error :

```
LD      .tmp_vmlinux1
```

```
arch/x86_64/kernel/built-in.o: In function `alloc_iommu':
pci-gart.c:(.text+0x111b4): undefined reference to `iommu_area_alloc'
pci-gart.c:(.text+0x111ee): undefined reference to `iommu_area_alloc'
arch/x86_64/kernel/built-in.o: In function `gart_unmap_single':
(.text+0x11627): undefined reference to `iommu_area_free'
make: *** [.tmp_vmlinux1] Erreur 1
```

**** Edit ****

ok, I could pass the problem enabling all IOMMU options during make oldconfig, and now I got this other message:

```
Root device is (8, 2)
Boot sector 512 bytes.
Setup is 7233 bytes.
System is 1762 kB
Kernel: arch/x86_64/boot/bzImage is ready (#1)
  Building modules, stage 2.
  MODPOST
WARNING: "arch_setup_additional_pages" [kernel/cpt/vzrst.ko] undefined!
WARNING: "syscall32_page" [kernel/cpt/vzrst.ko] undefined!
WARNING: "syscall32_page" [kernel/cpt/vzcpt.ko] undefined!
make[1]: *** [__modpost] Erreur 1
make: *** [modules] Erreur 2
```

May you help me with this please ?