

Modify / Compile linux kernel for ubuntu

there are thousands of methods to do this, but let's do it with all the nice help we can get from ubuntu..

these steps are based on the [ubuntu documentation about building a kernel](#) and some [Ubuntu community howto about compiling a kernel](#)

- cd into a directory where you want to have your kernel sources downloaded to
- install all the packages needed and download the sources

```
apt-get install fakeroot kernel-wedge build-essential makedumpfile kernel-  
package libncurses5-dev  
sudo apt-get build-dep linux  
apt-get build-dep --no-install-recommends linux-image-`uname -r`  
apt-get source linux-image-`uname -r`
```

- in ubuntu 10.04 you need to copy the package scripts for ubuntu because otherwise the initrd file will not be generated (more details in [\[https://help.ubuntu.com/community/Kernel/Compile\]](https://help.ubuntu.com/community/Kernel/Compile) this wiki article)]

```
cp linux-2.6.32/debian/control-scripts/{postinst,postrm,preinst,prerm} kernel-package/pkg/image/
```

```
cp linux-2.6.32/debian/control-scripts/headers-postinst kernel-  
package/pkg/headers/
```

- cd into the linux-xxx directory that was created containing the sources
- if you want, edit the config

```
make menuconfig
```

- compile and build a deb package (note, the overlay-dir is only needed for ubuntu 10.04 (and maybe later too?))

```
make-kpkg clean  
fakeroot make-kpkg --overlay-dir=$HOME/kernel-package/ --initrd --append-to-  
version=-custom.1.0 kernel_image kernel_headers
```

- install the new kernel

```
dpkg -i ../linux-image-.....deb  
dpkg -i ../linux-headers-.....deb
```

- reboot :)

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