

Operating Systems Assignment-1 README file

Readme File for Dual booting Linux

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6-09-21

All commands used during the process are listed below

Get the latest Linux kernel source code

```
$ wget https://cdn.kernel.org/pub/linux/kernel/v5.x/linux-5.14.1.tar.xz
```

Extract tar.xz file

```
$ unxz -v linux-5.14.1.tar.xz
```

Configure the Linux kernel features and modules

```
$ cd linux-5.14.1  
$ cp -v /boot/config-$(uname -r) .config
```

Install the required compilers and other tools

```
$ sudo apt-get install build-essential libncurses-dev bison flex libssl-dev libelf-dev
```

Configuring the kernel

```
$ make menuconfig
```

How to compile a Linux Kernel

```
$ make -j $(nproc)
```

Install the Linux kernel modules

```
$ sudo make modules_install
```

Install the Linux kernel

```
$ sudo make install
```