

OS Assignment 1

Submitted By-

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Kernel Version -> 4.9.8

Steps Followed :

Step 1 : Download Kernel from kernel.org

Step 2 : Extract Kernel using the following command :

```
tar -xvf linux-4.9.8.tar.xz
```

A folder named linux-4.9.8 is created in the same folder.

Step 3 : Change directory to this folder

```
cd linux-4.9.8
```

Step 4 : Install packages for smooth working of make.

```
sudo apt-get install build-essential libssl-dev
```

Step 5 : Make configuration file using default configurations(Other methods also possible)

```
make defconfig
```

A .config file is made in the current folder

Step 6 : Now, compile the kernel using 2 threads(for faster processing)

```
make -j2
```

Step 7 : Install the modules required

```
sudo make modules_install
```

```
make install
```

/ NOTE : Adding the additional install command will make the new added kernel as default.*/*

Step 8 : Change the grub configuration to log into your new kernel

```
sudo vi /etc/default/grub
```

Comment the following line

```
#GRUB_HIDDEN_TIMEOUT=0
Set the grub timeout to 10 secs
GRUB_TIMEOUT=10
Exit vi editor.
sudo update_grub
```

Step 9 : Now reboot your system and in advanced settings log into the new kernel. And you are done ! :)