## **How To Load Linux Kernel With Real Time Patch (PREEMPT\_RT)**

## Step1:

mkdir Kernel && cd Kernel

### Step2:

wget https://cdn.kernel.org/pub/linux/kernel/v4.x/linux-4.13.15.tar.xz

## Step3:

wget https://cdn.kernel.org/pub/linux/kernel/projects/rt/4.13/patch-4.13.13-rt5.patch.gz

### Step4:

tar xvf linux-4.13.15.tar.xz

#### Step5:

cd linux-4.13.15

### Step6:

gzip -cd ../patch-4.13.13-rt5.patch.gz | patch -p1 --verbose

#### Step7:

sudo add-apt-repository "deb http://archive.ubuntu.com/ubuntu \$(lsb\_release -sc) main universe"
sudo apt-get update
sudo apt-get install libncurses5-dev
sudo apt-get install libssl-dev
sudo apt-get install libelf-dev

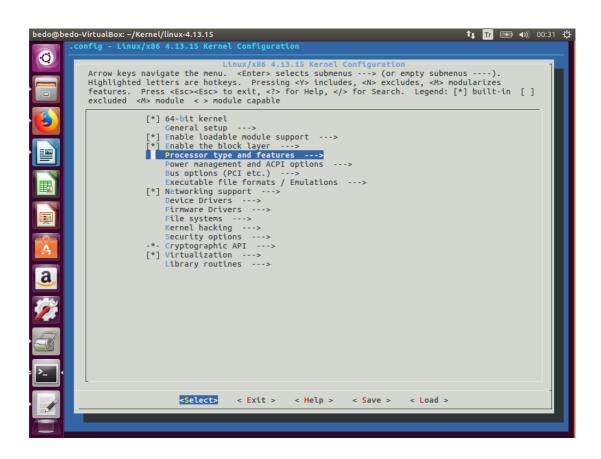
#### Step8:

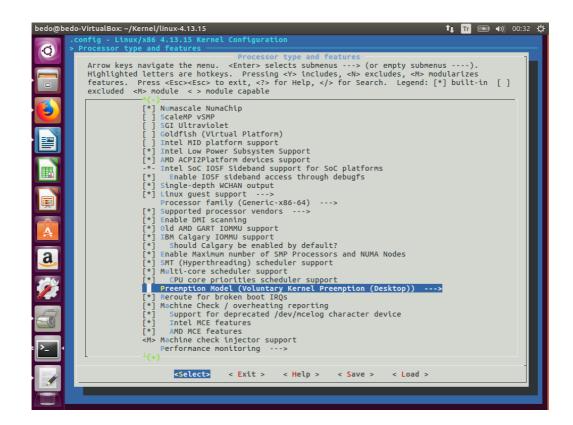
make menuconfig

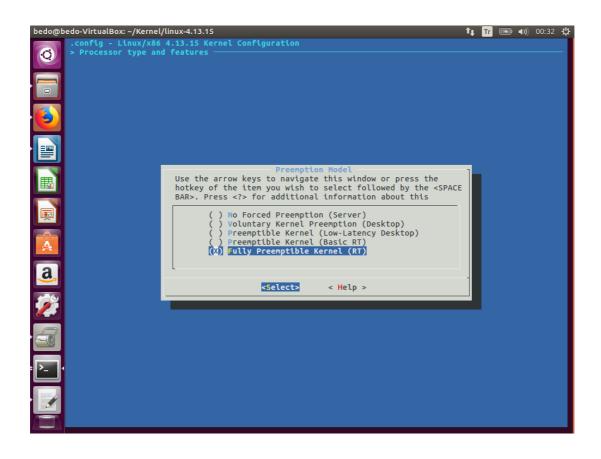
## Step9:

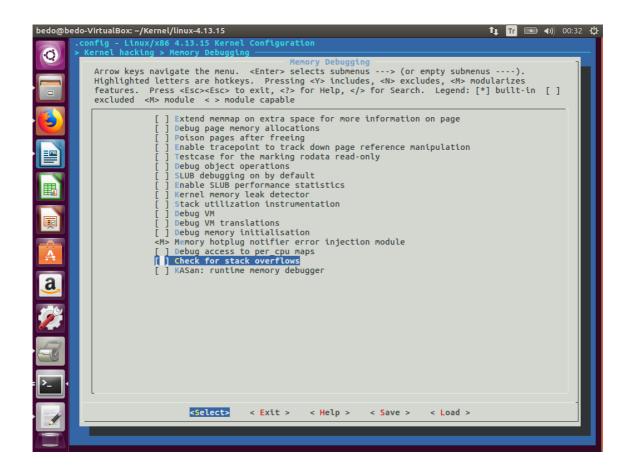
Processor type and features Preemption Model (Voluntary Kernel Preemption (Desktop)) Fully Preemptible Kernel (RT)

Kernel hacking -> [Enter]
Memory Debugging [Enter]
Check for stack overflows









# Step10:

make -j2

## Step11:

sudo make modules\_install -j2 sudo make install -j2

## **Step12:**

cd /boot ls

## **Step13:**

sudo update-grub sudo reboot

# Step14:

uname -a

