

# Programming Fundamental

## Lab#04

### Contents

<b>Linux</b> .....	2
<b>Ubuntu Installation</b> .....	2

## Linux

The Linux open source operating system, or Linux OS, is a freely distributable, cross-platform operating system based on Unix that can be installed on PCs, laptops, netbooks, mobile and tablet devices, video game consoles, servers, supercomputers and more.

Popular flavor of linux are Ubuntu, Fedora, Linux Mint, openSUSE, PCLinuxOS, Debian, Mandriva, Sabayon/Gentoo and many more.

## Ubuntu Installation

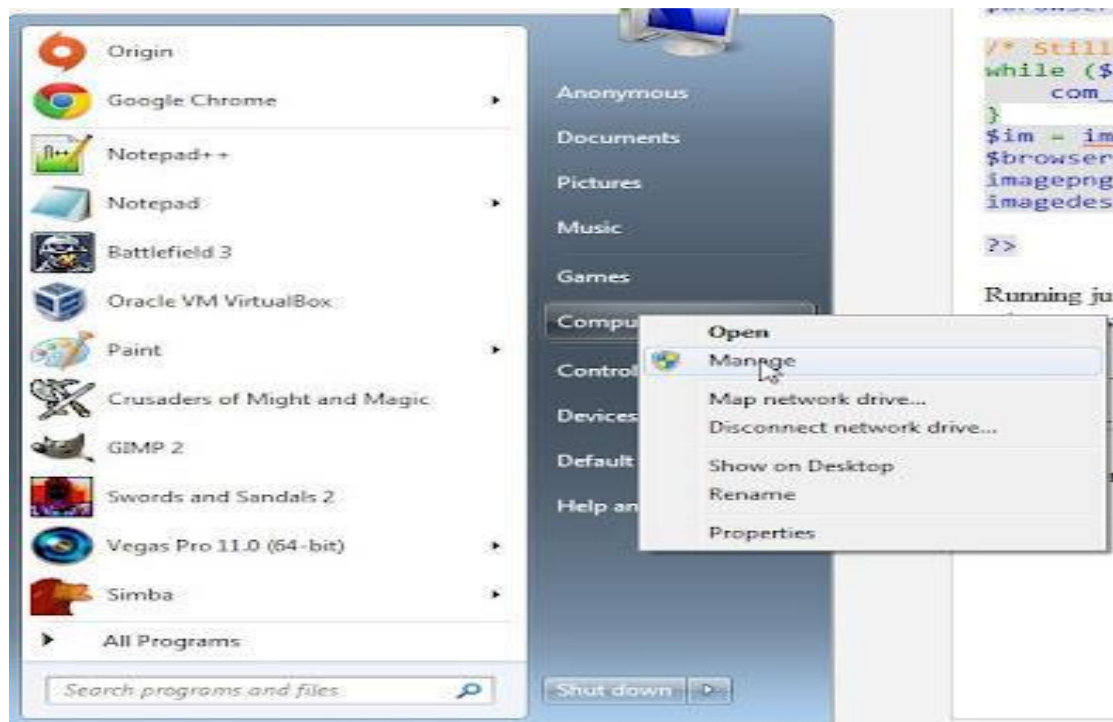
You can install Ubuntu individually, on virtual box or dual boot. Choice is yours

### Step 1:

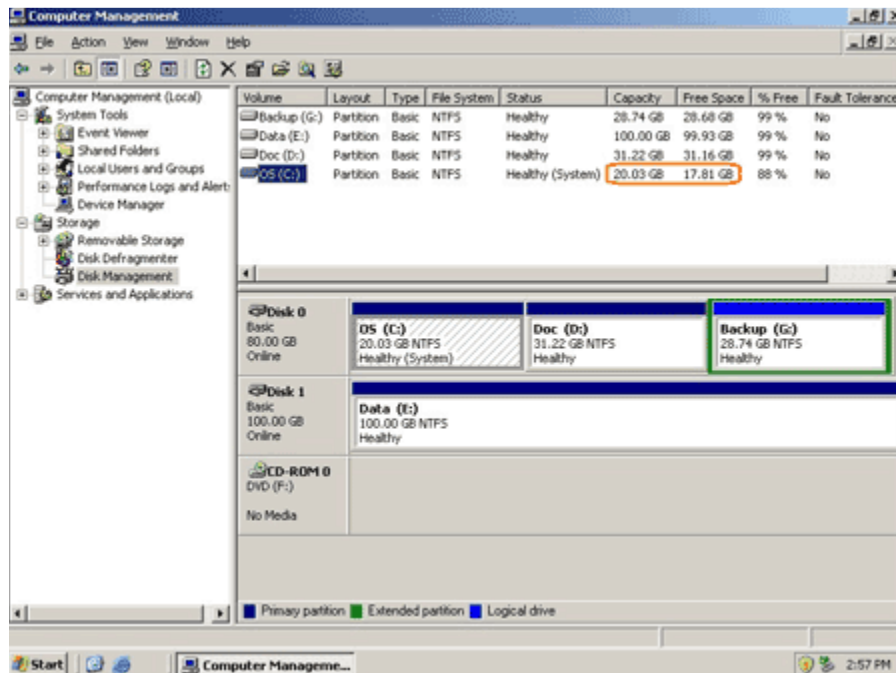
If you wish to install Linux not alongside Windows then installation process is the same as Windows installation. If you wish to dual boot then complete process is listed below.

### Step 2:

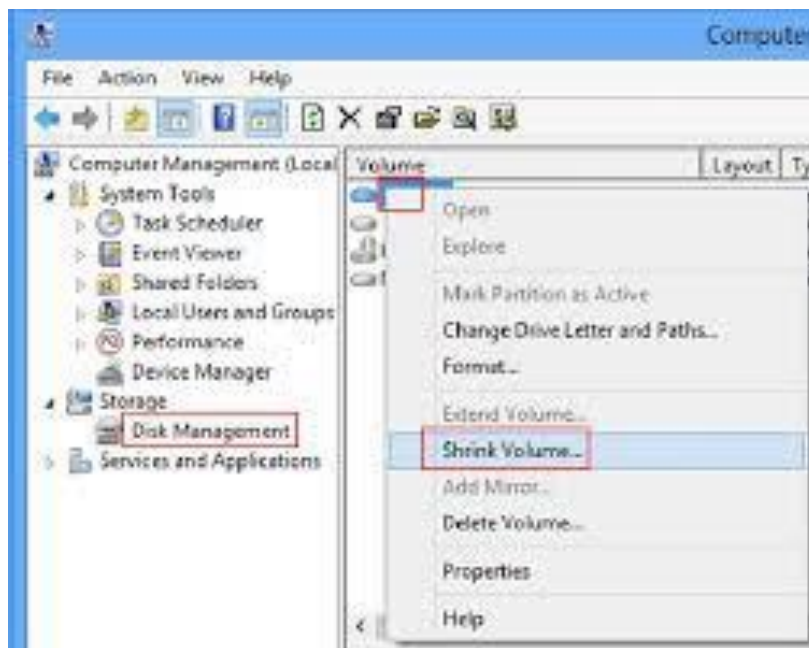
Right click on Computer/This PC and go to Manage Operating System Lab

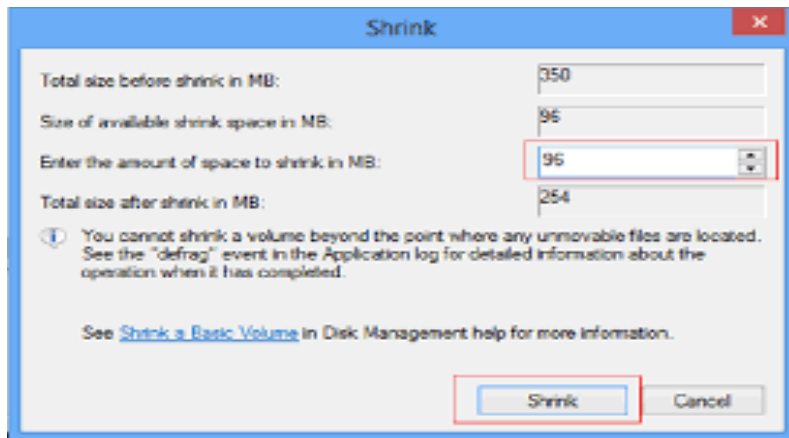


After this the following Window will appear



Right click on any of the Drive D or G and shrink anyone of them to create at least 20 GB free space.





After shrinking a particular Drive free space/ unallocated space will be created. Now it's time to install Ubuntu using this unallocated space.

### Step 3:

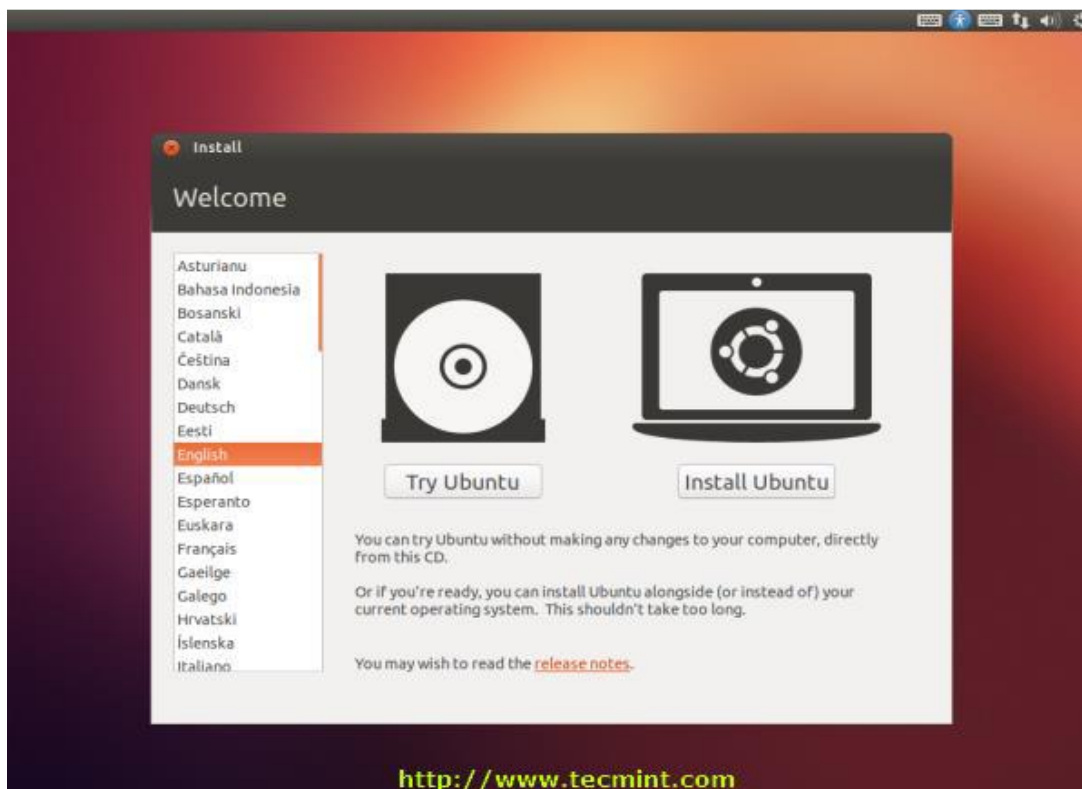
Make a USB bootable (min 8GB) using “Universal-USB-Installer-1.9.6.1”.

### Step 4:

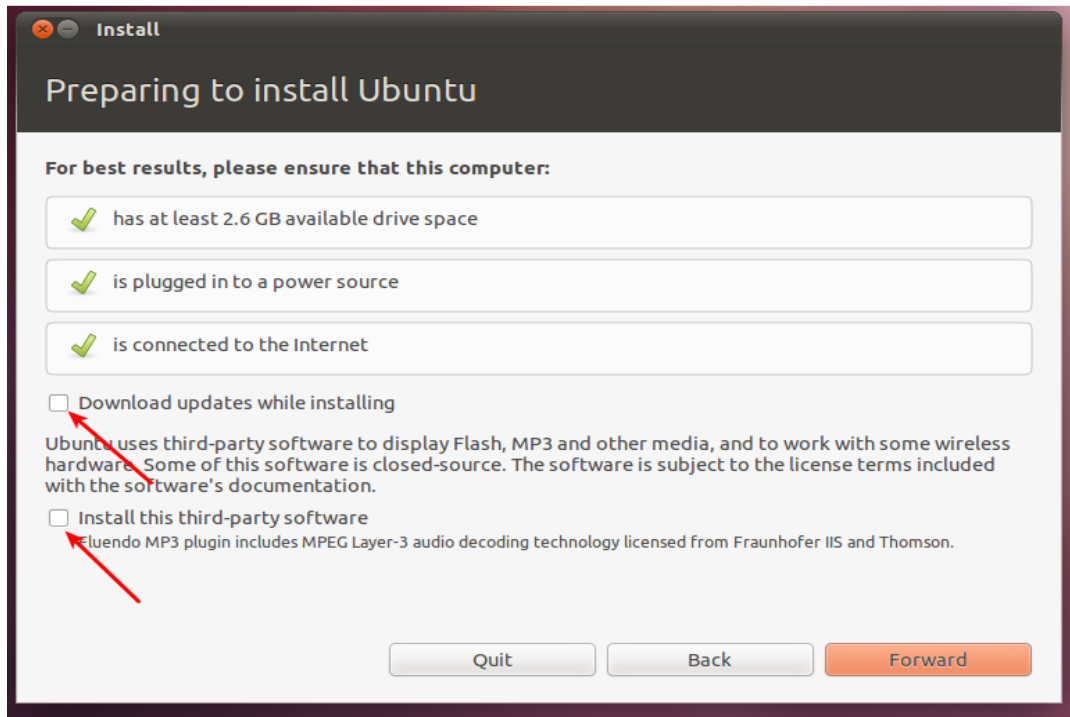
Now Plug in the bootable USB and restart your computer a required key to go to Boot Menu. Select Boot from USB in the Boot Menu. The system will start booting from USB.

### Step 5:

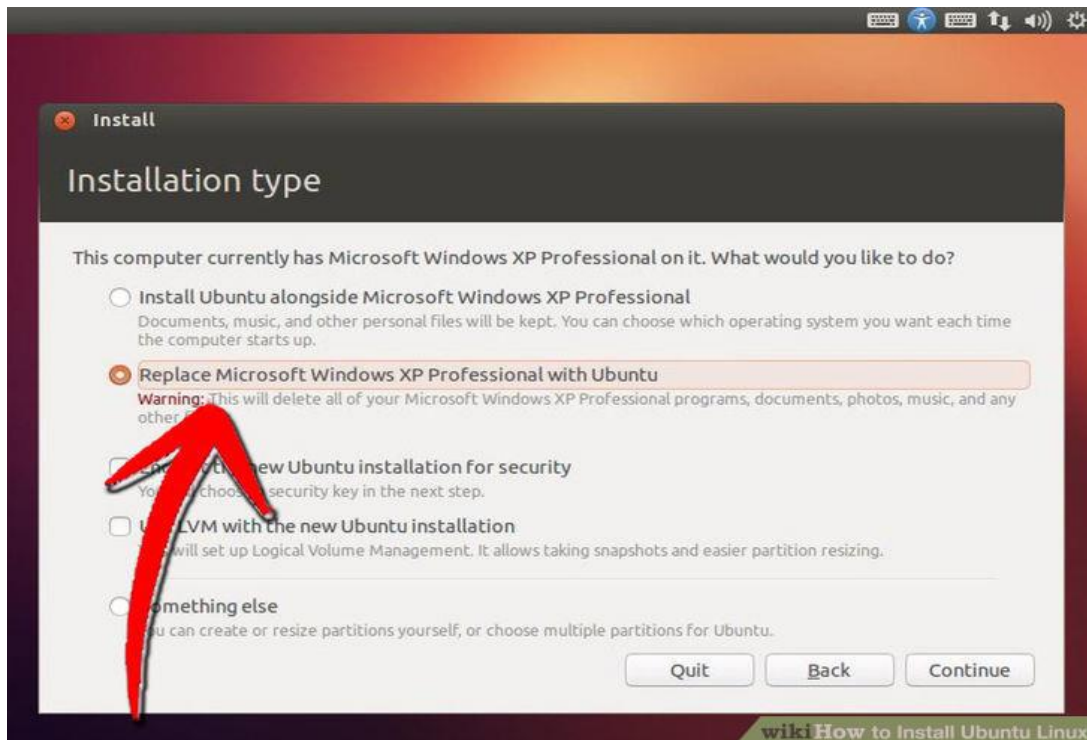
Install Ubuntu



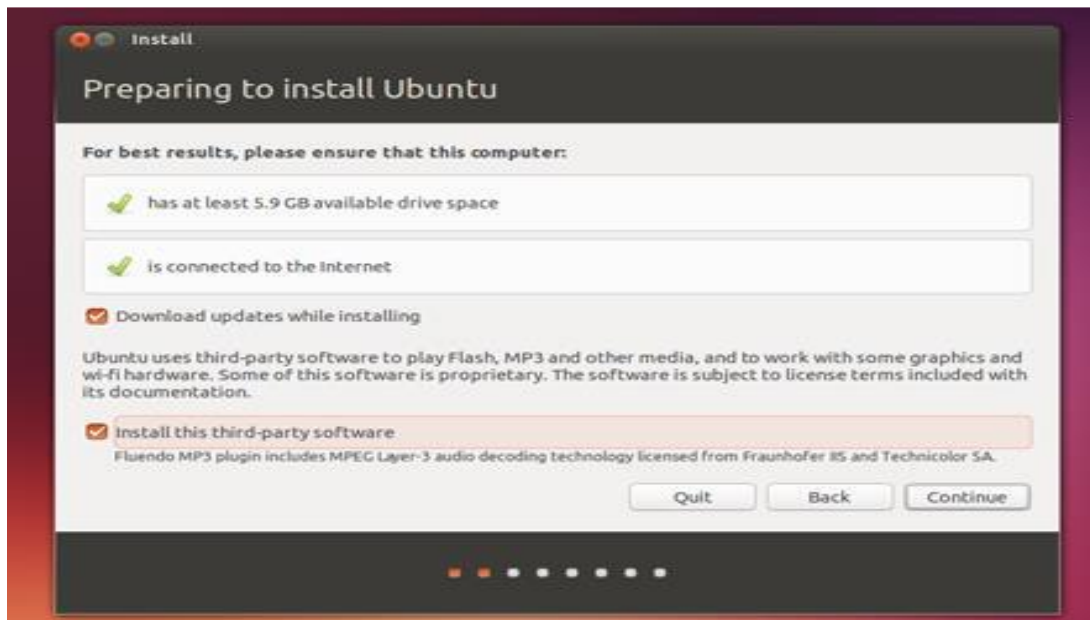
**Step 6:**  
Forward



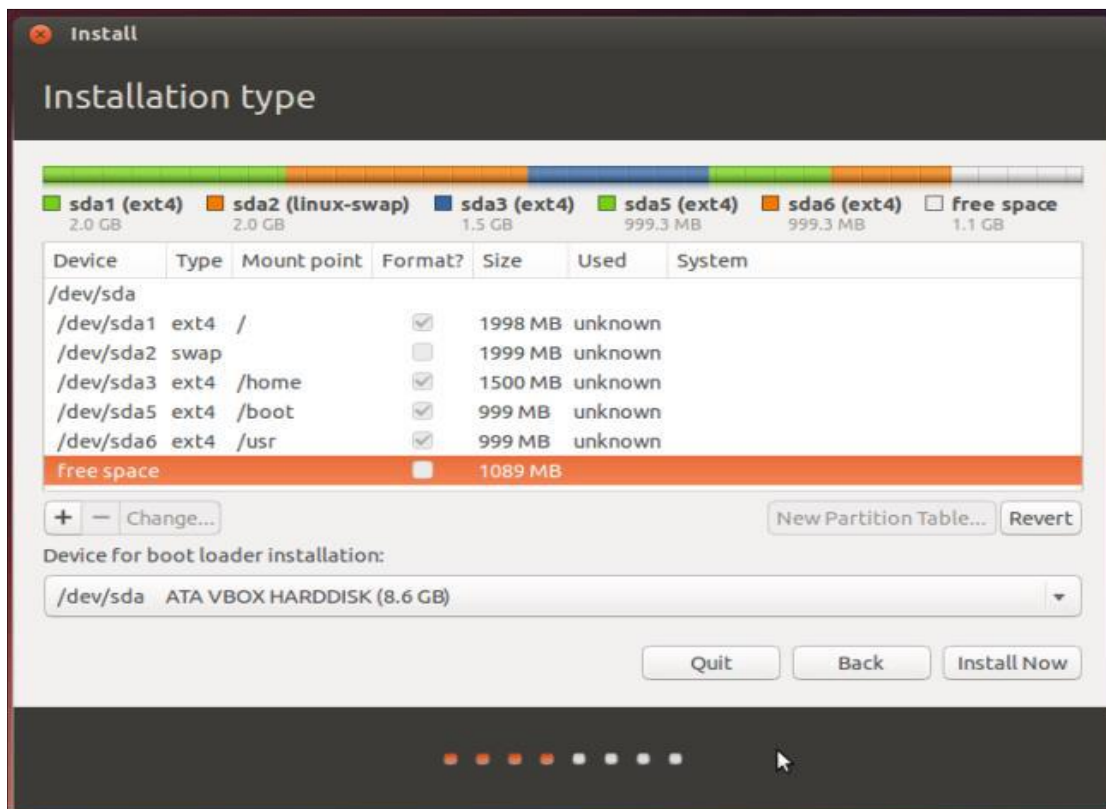
**Step 7:**  
**Select something else**



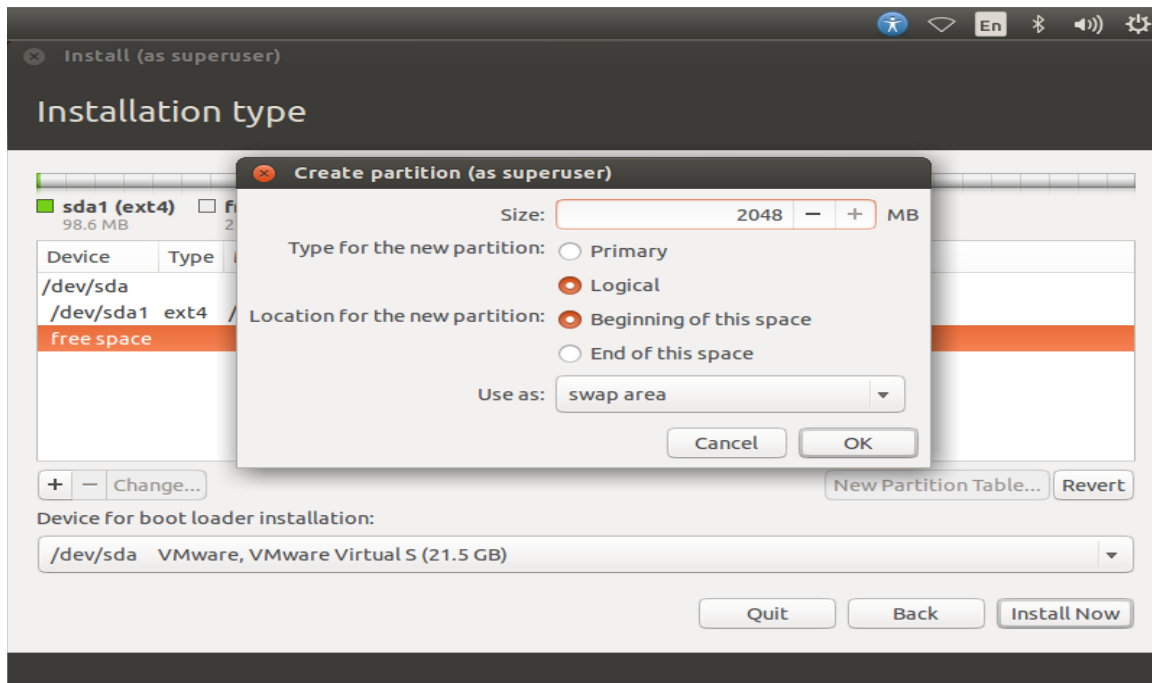
## Step 8: Continue



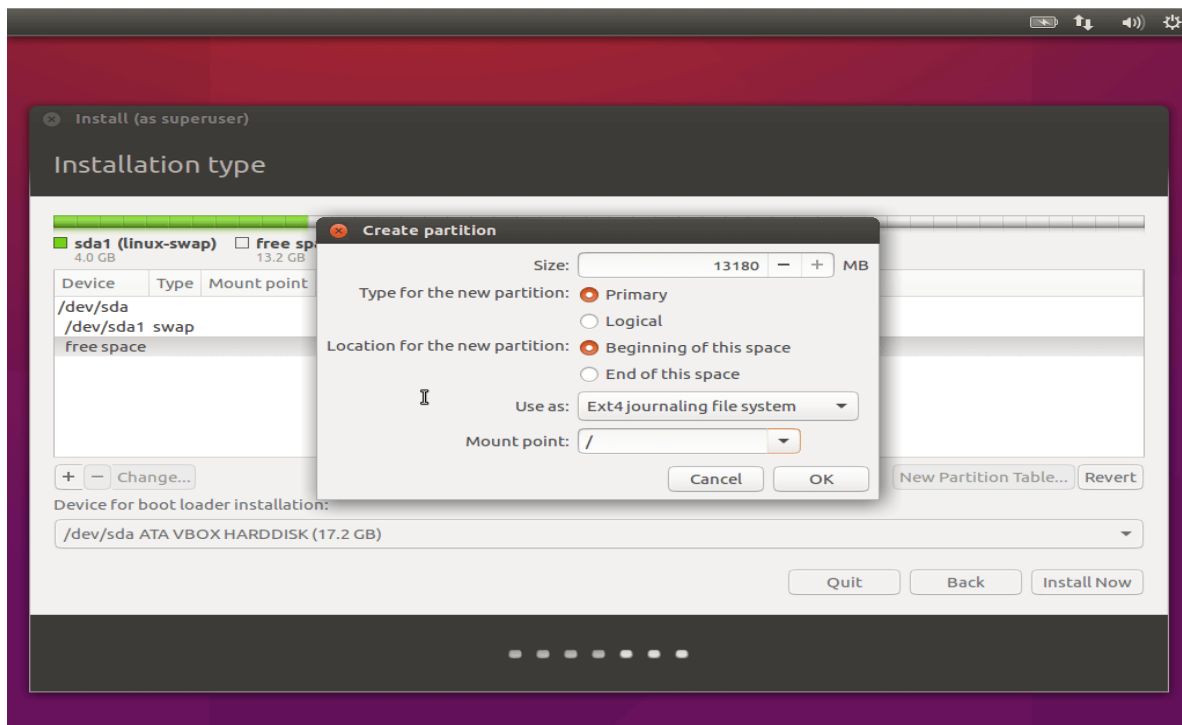
## Step 9: Select free space and then click {+} sign



**Step 10:**  
**Create Swap Area double of your RAM size**



**Step 11:**  
**Again click the free space and do as follow and click install Now**



**Step 10:**

**Just wait for 5 minutes and you are done with installation. Remove USB the system will get restart.**

**For Installation on virtual box follow the link below:**

<https://www.lifewire.com/run-ubuntu-within-windows-virtualbox-2202098>

**Basic linux Commands**

<http://www.linuxandubuntu.com/home/10-basic-linux-commands-that-every-linux-newbies-should-remember>