

# Ecodena Server Installation Guide

Perform All operations in correct sequence:

## Install Ubuntu

(Since all the features of django is not supported by windows)

Ubuntu 11.10 (code named as Oneiric Ocelot) beta 1 has released and [final \(stable version of 11.10\) released](#) a week ago. If you're a absolute beginner – i.e you've very little (negligible) or no experience with Linux distributions then this post might help you in getting started with Ubuntu as it contains step by step instruction for installing [Ubuntu 11.10](#) on your Desktop/Laptop/Netbook.

The instructions given in this post assume that you want to install ubuntu as a dual boot with Windows 7 (or XP/Vista or whatever you've already installed), which is recommended for absolute beginners as if any problem occurs with Ubuntu (or you are not feeling comfortable with Ubuntu, although that's not probably going to happen) then still you would be able to access Windows, but if you want something else like – removing windows and install [Ubuntu](#) or erase whole disk and install Ubuntu on a new computer – then most of the steps would be same – few things will change that I've pointed out (Jump to steps).

[Ubuntu 11.10 beta 1 has released](#) with a lot of surprises/changes, new features and some improvements in the unity desktop. One of the biggest change is that Ubuntu 11.10 uses Gnome 3, unity also uses Gnome 3 so it means you can [install gnome shell on ubuntu 11.10](#) – in few steps without breaking the unity i.e it will support Gnome 3 without any problem. (although there may be some bugs right now as it's beta release).

## Installing Ubuntu 11.10 – step by step guide

Ubuntu 11.10 can be installed in many ways – one of the easiest method is using wubi installer, but it doesn't provide much control options so we would go with advanced installation..and one more thing – it's not as difficult as it appears to be, just follow the instructions – if you've any doubt then drop a comment.

### **Preparing for installation : First of All – backup your important data**

Before going to start the installation procedure – you are strongly recommended to backup your data (using a backup disk or online backup program), although you aren't going to loose any if you've multiple partition on your drive and want to go for custom installation procedure, but you're supposed to have a backup of all your critical data before starting any experiments.

### **Step 1. Download Ubuntu 11.10 ISO file**

First, [Download Ubuntu 11.10 ISO](#) , select the archive file (ISO) depending on your computer architecture – such as Intelx86 or AMD64. If you are not sure then go for first one. When the download

is complete move on to next step.

## **Step 2. Create a bootable media (USB/CD)**

Then create a bootable USB stick/driver or a CD/DVD from the ISO file you've just downloaded. If you want to create a bootable CD/DVD – then it's pretty easy- you just need to burn the ISO image to the cd.

### **On Windows**

If you are using windows now then use the free program called – universal USB installer. To make your pendrive bootable – use Universal-USB-Installer ([Download](#) and run it – then locate the ISO file, choose your USB drive as a target and your will be done in a minute). In Windows 7 you can burn ISO files directly in few simple steps – Insert cd in to the tray, right click on the ISO file and select burn this ISO.. and finally you will get a bootable cd.

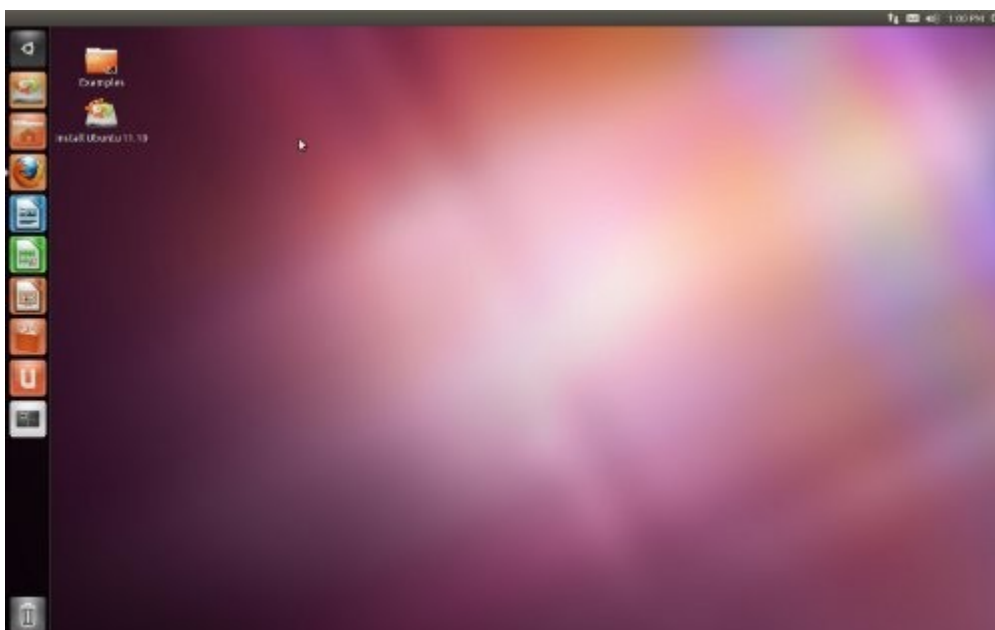
### **On Ubuntu**

There is a program called – 'Start Up Disk creator' is installed by default on Ubuntu. So just run the program – browse the ISO and select your pendrive/cd as the target startup disk. That's All.

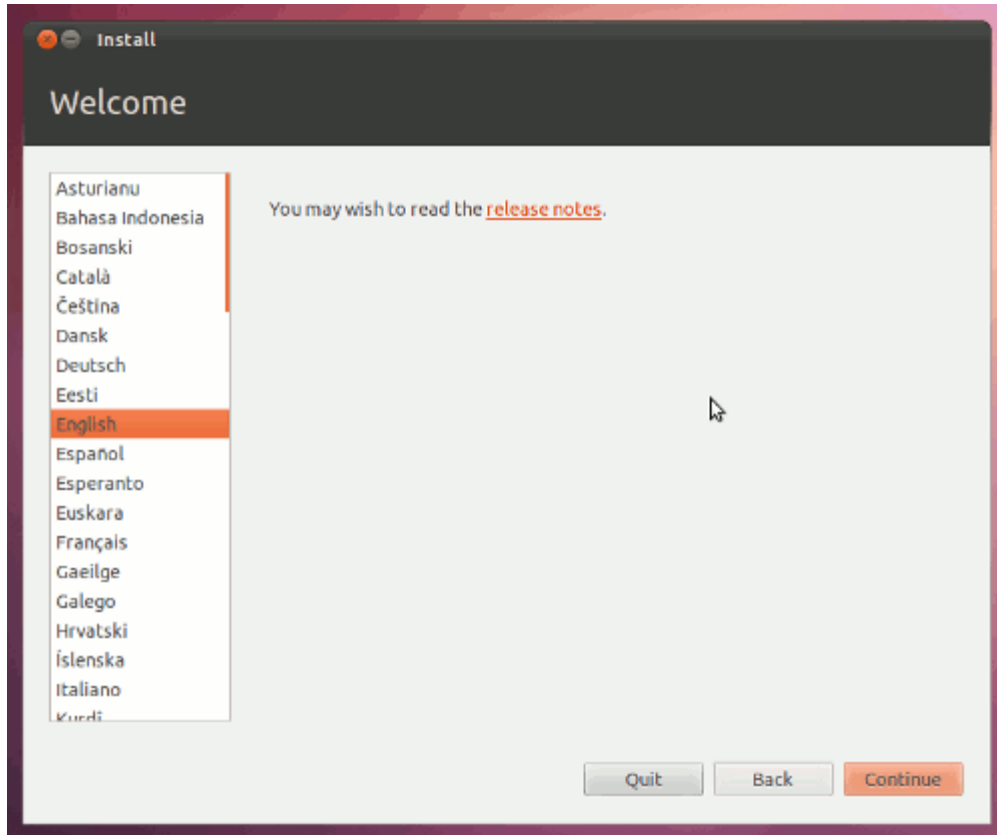
In the and of step 2 you will get a bootable media – which is also called as Live CD/USB Installer (this is also very useful for removing viruses from Windows or recovering data from corrupted OS, as you don't need to enter any password (exception : BIOS password) when your boot your computer using this live cd/usb), Now we will boot the computer from this bootable disk and finally we will install it permanently into the hard drive.

## **step 3. Insert the USB disk (or CD) and restart**

Now restart your computer (and enter your supervisor BIOS password, if you have set any password – you system may not boot from CD if you enter user BIOS password). Your computer should boot automatically from the bootable media, and the Ubuntu will be loaded in RAM (if any option comes then select 'try Ubuntu without installing if you want to take a look before installing it on your hard drive').

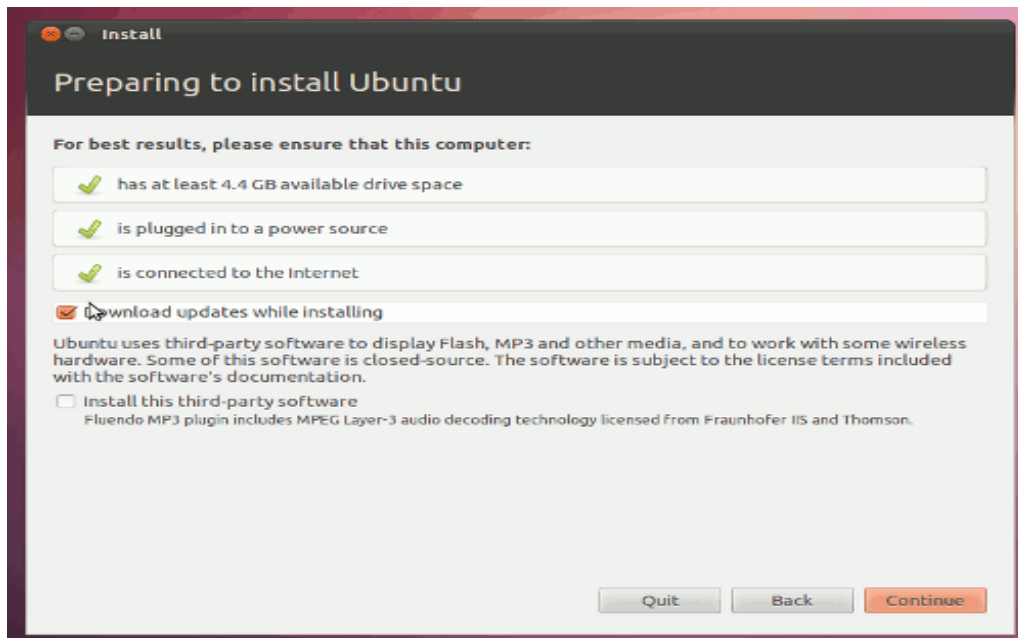


Then click on the install Ubuntu 11.10 icon on the desktop to begin.

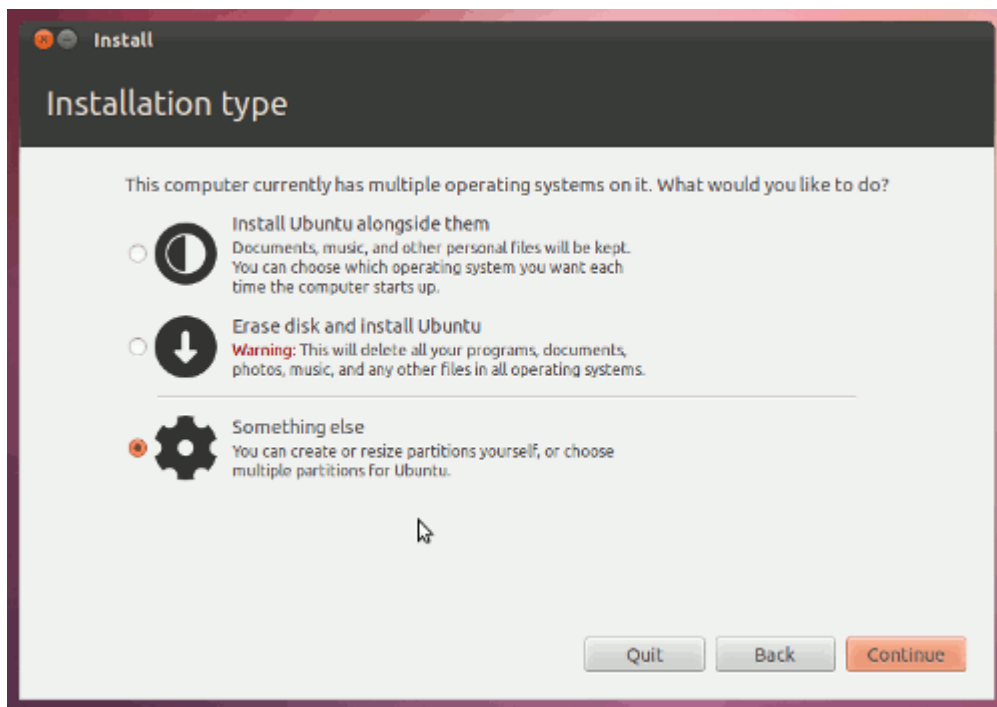


#### Step 4. Select Installation Type

Now select the check boxes such as 'Download Updates' and 'install third party software', but you must be connected with Internet (it's recommended – if wireless network doesn't seem to work use wired connection). Although there is no hurry – you can always install them later, so it's optional.



then click on continue – then a new window will appear – where you need to select installation type.



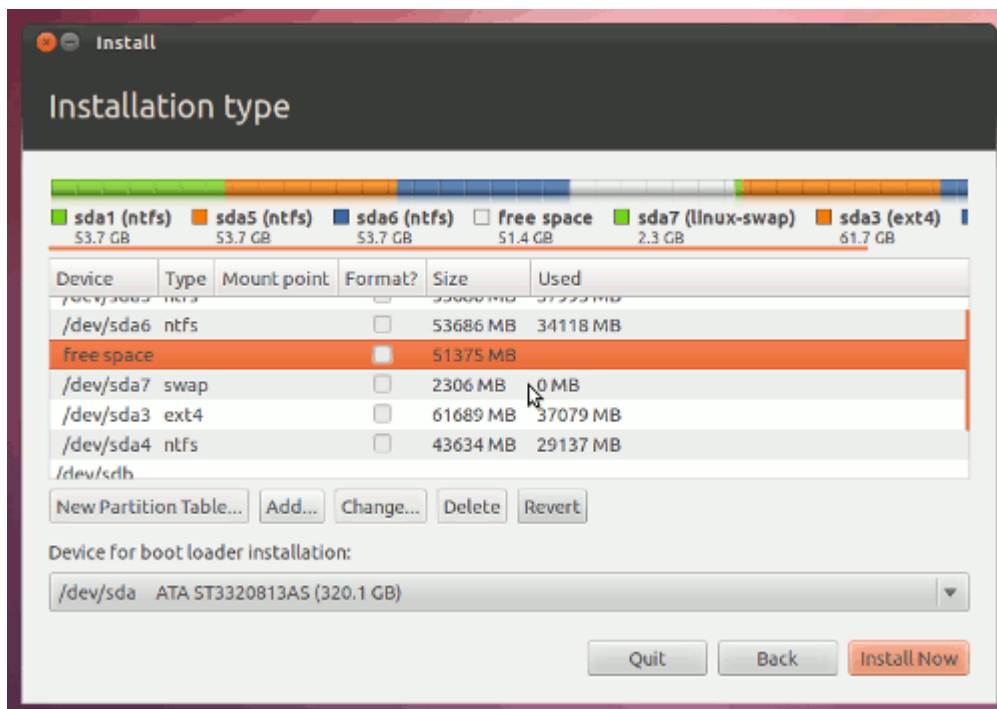
You may get different options depending on your computer configuration. The above snapshot has been taken while installing Ubuntu 11.10 on a computer with Ubuntu 10.04 and Windows 7 pre-installed as dual boot (Now it's time for triple boot, it's cool! Hmm). Most of the option seems self explanatory -

- **Install Ubuntu alongside with them** : it will install Ubuntu 11.10 alongside with existing operating systems such as Windows 7.
- **Erase Entire Disk and Install Ubuntu** : it's going to erase your whole hard drive and everything will be deleted (your files as well as other operating systems), useful only if your hard-drive doesn't have any important files or you just bought a new computer and want to keep only one OS – i.e Ubuntu.
- **Something Else** : Create, Allocate and choose the partition to which you want to install Ubuntu, using advanced partition manager. At first look it may seem a little difficult but it's better as it gives you more options/control.

We will go with the third option – select *Something else* and continue.

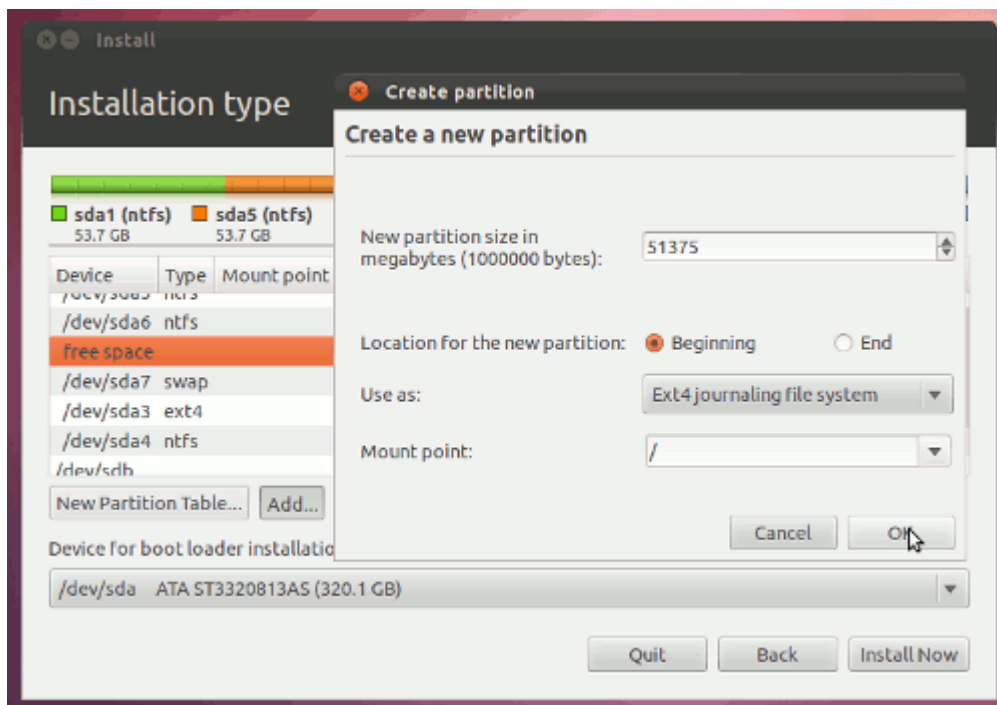
### Step 5. Create a new Ext4 Partition and Install Ubuntu 11.10

In the end of step 4, you will get the partition manager window for creating/deleting partitions.



Then select the free space available for creating partition (if you don't have any free space then try deleting any empty NTFS drive or the partition whose files has been backed up completely).

Now select the partition which says – 'free space' and click on 'New Partition Table'.

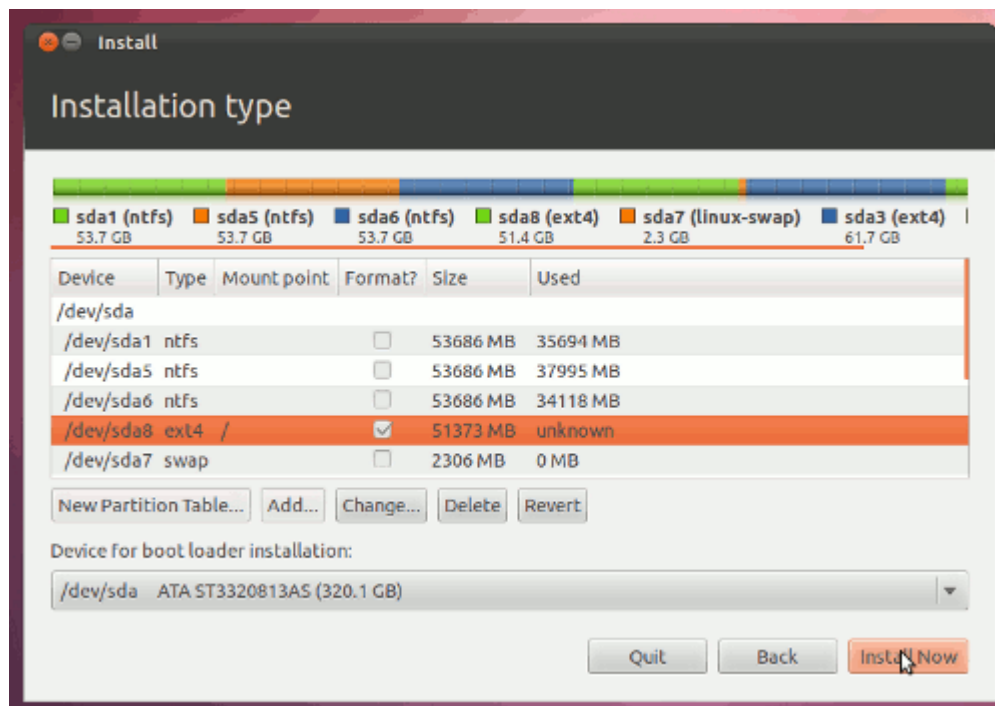


Now, there are so many field in new partition window -

- **New Partition Size** : The size of the partition (in megabytes) where you are going to install ubuntu 11.10. Recommended minimum size is 15 GB, if you want to use it for daily purpose, although 5GB (or may be less) is critically required. I've left it **default** as I want to use all that selected free space partition (around 51GB).

- **Location for the New Partition** : beginning (if you want it to appear on the top in grub menu (when the system starts) – default OS ) or end (if you want the Ubuntu 11.10 to appear at the end in OS list at GRUB). Don't worry you can change the default OS later. Let's choose **Beginning**.
- **File System (use as)** – select **Ext4 journaling file system** , the latest and recommended files system for Ubuntu 11.10.
- **Mount Point** – select **/ (forward slash)**, it's used to mount additional file systems, forward slash means – mounting is done with reference to root.

Then click **OK** to apply.

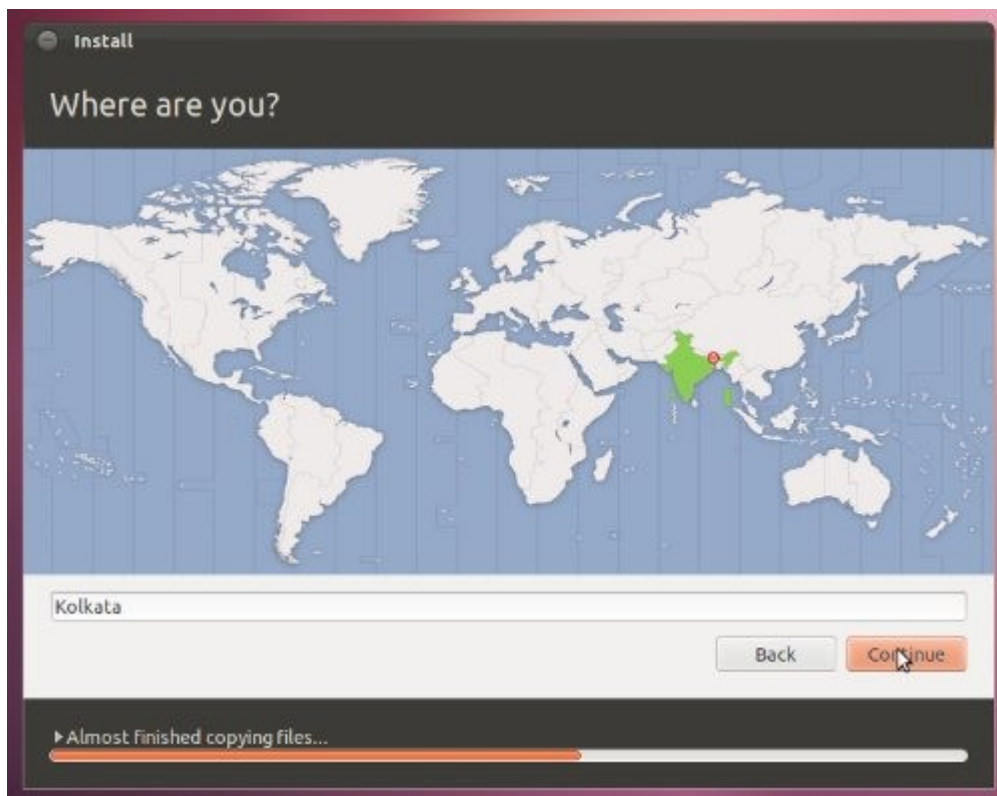


Next, click on Install Now button to begin installation procedure.

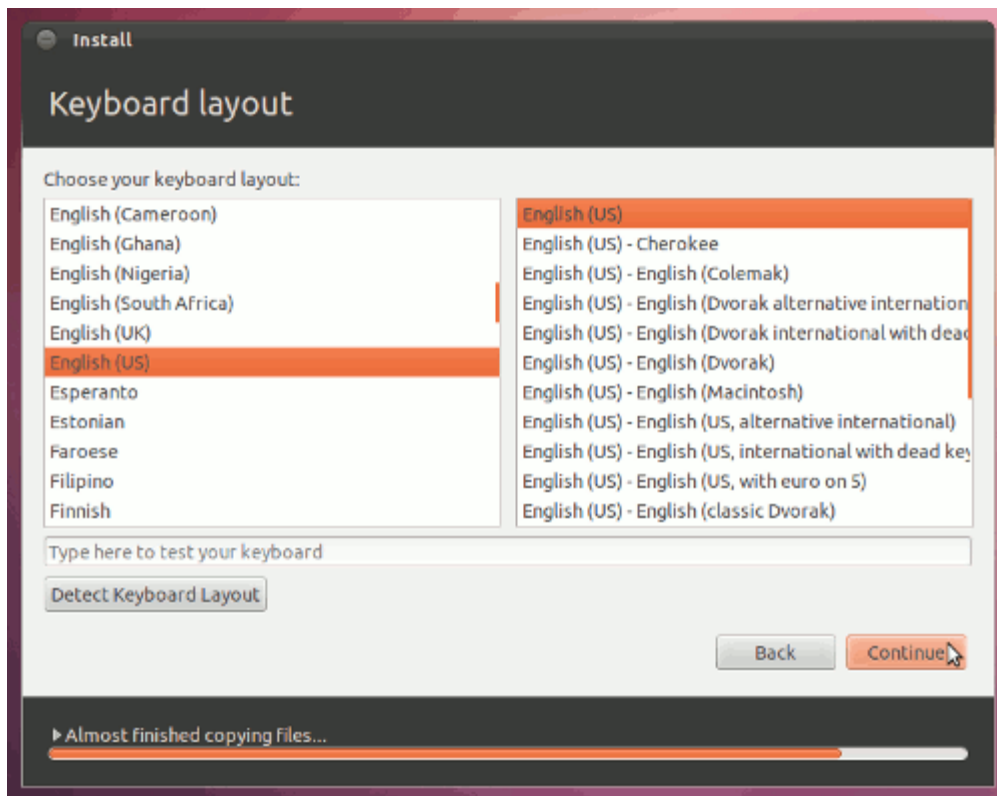
## Step 6. Enter some basic info and Create a user

While installation procedure is going on – you will be prompted to enter some basic information such as

**Your Physical Location** – it will be used to set your local time and other settings. Select it on world Map.



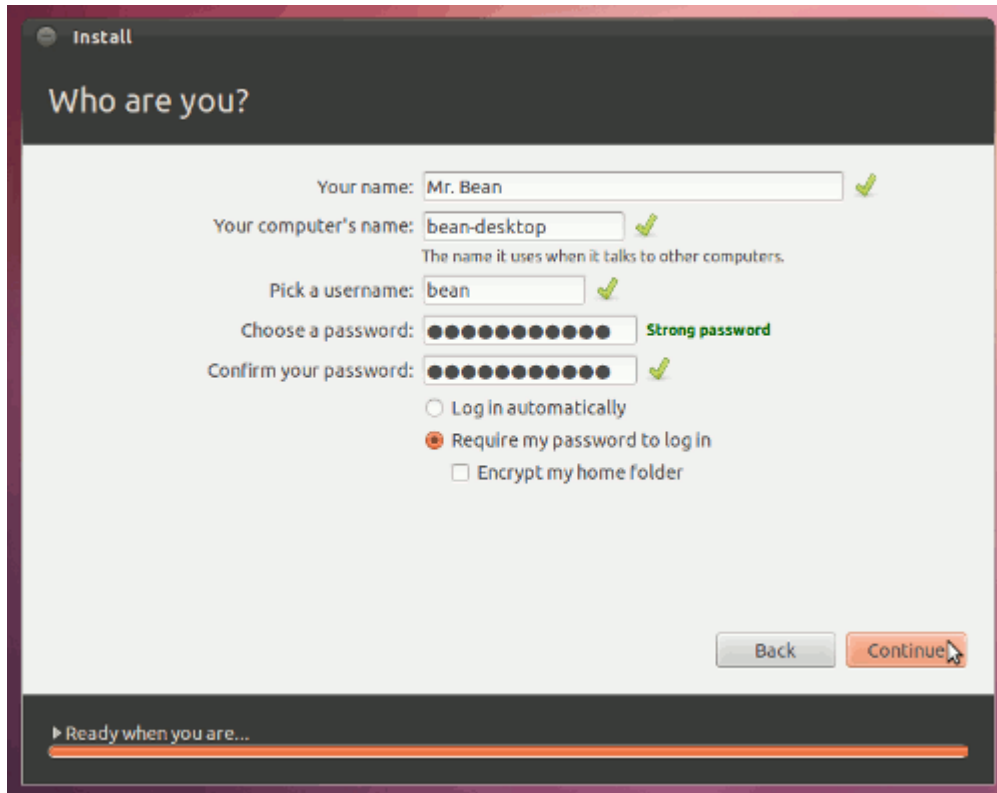
**Keyboard Layout** – Leave it default if you aren't sure or select the one you want to use.



Then Enter some basic details about the user -

- **Your Name** : of course your Name (Mr(s). X)
- **Computer's Name** : x's computer

- **username** : Your username – e.g mrx
- **password** : Your password (strong – something like this (think twice it's very easy to remember and it's very strong!) – **U11#kkd\_MS!**)
- **Require my password to login** : better leave this option selected if you want authorized access (unless you aren't using BIOS password) to your computer, else you can also choose the other option – *login automatically*.



The image shows the 'Who are you?' screen from the Ubuntu installer. The window title is 'Install'. The main heading is 'Who are you?'. The form contains the following fields and options:

- Your name:** Mr. Bean (with a green checkmark icon)
- Your computer's name:** bean-desktop (with a green checkmark icon). Below this is the text: 'The name it uses when it talks to other computers.'
- Pick a username:** bean (with a green checkmark icon)
- Choose a password:** (masked with dots) with a green checkmark icon and the text 'Strong password' to its right.
- Confirm your password:** (masked with dots) with a green checkmark icon.
- Log in options:**
  - ☐ Log in automatically
  - ☒ Require my password to log in
  - ☐ Encrypt my home folder

At the bottom right are 'Back' and 'Continue' buttons. At the bottom left is a progress bar with the text '► Ready when you are...'.

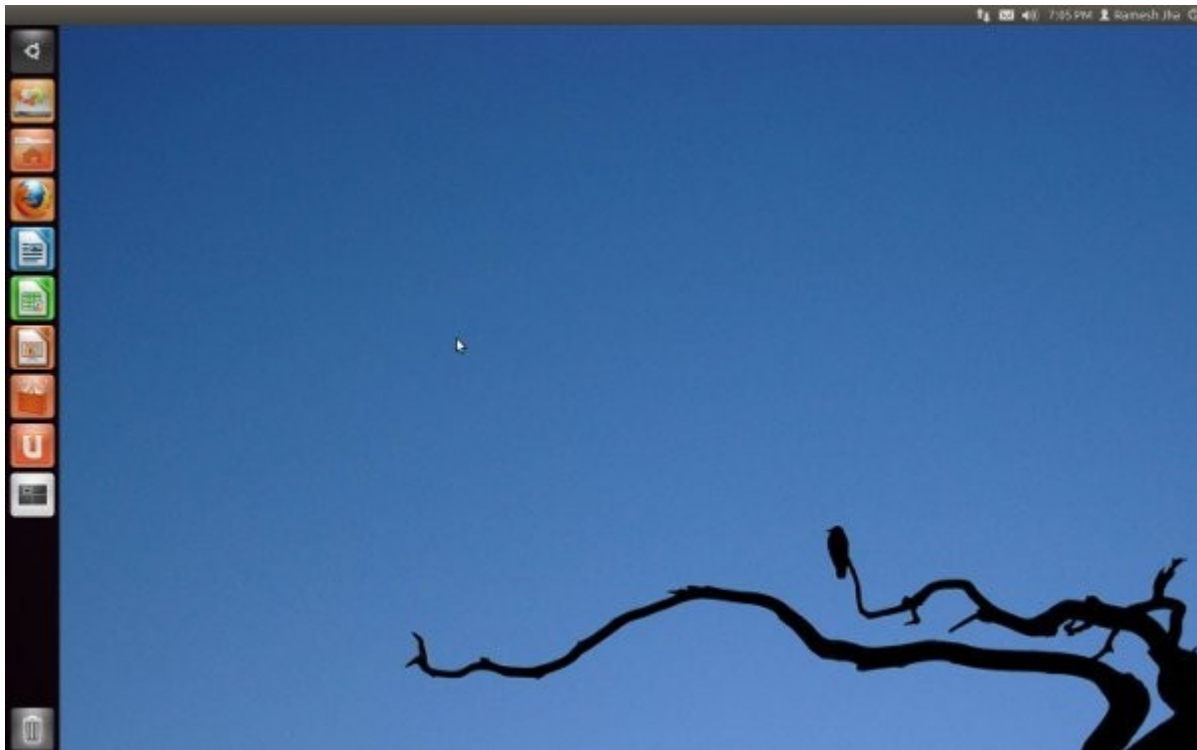
Step 7. Restart your computer

Now the installation procedure will complete within few minutes.





Now when you see a window saying installation is complete – restart your computer and remove the installation media and select Ubuntu 11.10 at the boot menu, and login to ubuntu.



Ubuntu 11.10 Desktop

That's All..Now it's time for installing some basic applications – [10 things to do after installing Ubuntu 11.10](#), for performing some common tasks.

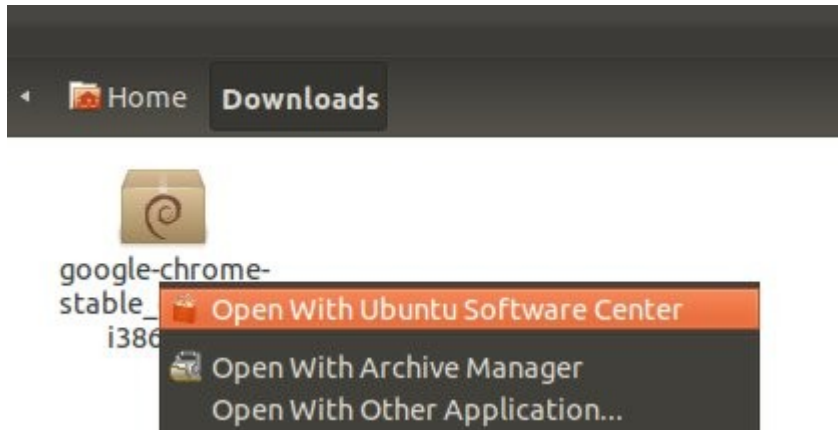
# Install Google Chrome

(Since our website is best viewed in Google Chrome)

#1 Get the debian package of chrome from its official website.

[Download Google Chrome](#)

#2 Now, you can either install it using Software Center or from command line.



Installing Chrome using Ubuntu Software Center

You can also use the dpkg tool to install the \*.deb package. Open the terminal (CTRL+ALT+T), and type (move to other directory instead of *Downloads* if you've saved it somewhere else) :

```
cd Downloads
sudo dpkg -i file_name.deb
```

#3 If any dependency error occurs then run the following command(s)

```
sudo apt-get -f install
```

or install dependent libraries/program manually like this :

```
sudo apt-get install libnspr4-0d
sudo apt-get install libicu
```

# Install Python 2.7

(If not available)

(Check if its installed or not by typing python on the terminal. If it shows the python version with other information then its installed)

Here are some packages that have to be installed to have various aspects of Python functioning:

On command line type->

```
sudo apt-get install libreadline-dev
sudo apt-get install libsqlite3-dev
sudo apt-get install libbz2-dev
sudo apt-get install libssl-dev
```

Go to <http://www.python.org/>. In the "Quick links" section on the left-hand side of the page, "Source distribution" is a direct link to the tarball. Download it. Unzip the tarball, and from the root of the created directory (which will be called Python-2.7.2 or something similar, depending on the version):

```
./configure
```

```
make -j
```

In the same directory, run:

```
sudo make install
```

## Install Django 1.3.1:

From your home directory, run the following command to download Django, using the link from their download page:

```
/usr/bin/wget -O Django-1.3.1.tar.gz
http://www.djangoproject.com/download/1.3.1/tarball/
```

Next, extract these files and navigate to the newly created Django-1.3.1 folder:

```
tar xzvf Django-1.3.1.tar.gz
cd Django-1.3.1
```

Next, run the installer:

```
python setup.py install
```

## Configure Django's Path

```
export PATH = "/var/lib/python-support/python2.7/django/bin"
```

Now to test whether django is correctly installed or not open a python shell by typing "python" in your terminal (without the quotes). In the python shell, type the following command (dont write ">>>" , they are just python shell prompts)

```
>>> from django import get_version
```

At this point if you don't get an error (a "Traceback" information is an ImportError, for e.g.), then you have successfully installed django and the get\_version shows the version, which we will use now)

```
>>> get_version()
```

The output given by this command is the version of django installation. In our case, if we installed Django 1.3.1, the output should be 1.3.1 unsurprisingly

## Configure Django for PostgreSQL

```
sudo apt-get install postgresql pgadmin3 python-psycopg2
```

## Install Python Packages

Python packages that have to be installed before running the server:

1. *sudo apt-get install python-pip*
2. *sudo pip install django-celery*
3. *sudo pip install ghettoq*
4. *sudo pip install django-pagination*
5. *sudo pip install turbogears*
6. *sudo pip install django-registraion*
7. *sudo pip install django-wiki (Alternatively, Inside django-wiki directory-> python setup.py install)*
8. *sudo pip install django-forum (Alternatively, Inside django-forum directory->python setup.py install)*
9. *sudo pip install markdown*
10. *sudo pip install django-pagination ( Alternatively, Inside django-pagination directory-> python setup.py install)*

## Change Database Settings and Start Server

Find "src" on the main "ecodena" directory that came with the CD, then browse the "Ecodena" directory, then find the file "settings.py" and find the "DATABASES" setting, change this setting as per your needs. Change the Host Url, username, password and port Number. You may not change the database type since we already installed postgresql, but if you know how to install python api for other drivers, go ahead and change it.

After you've done all this, in your terminal, switch to this “src/ECodena” directory and type

- *python manage.py syncdb*

This should create all SQL in your database if you've written the correct settings, else it would show the appropriate errors. The details of these errors can be found on the Django website

<http://djangoproject.com>

If you managed to perform “syncdb” correctly, its now time that you start the server and test ECodena. Again, in your terminal at “src/ECodena”, type

- *python manage.py runserver*

If all goes well, it should say “the server is now running at 127.0.0.1:8000”

If you get an error saying “port already in use”, use 9000 or any other port number by typing

- *python manage.py runserver <portnumber>*

*e.g. python manage.py runserver 9000*

After it is running, open your web browser, type “127.0.0.0:8000/admin” (or use the port number you specified). This should open the admin interface, where you can log in with the “super user” name and password that you provided at syncdb. (If you did not do syncdb, the “superuser” username is sen3 and password is 123). After logging in, you will see the main “Site Administration” interface, where you'll find various Django models that you can add, edit or delete. Find a tab named “Profiles”, click on it. Then click on “Add profile” to add a new profile. In the “Add new Profile” interface, you will have a form. There will a drop down menu named “User ID who profile this is “. Select send3 from that menu. Click on Save. You now have created a Profile for sen3.

You can now browse the site at 127.0.0.0:8000/ (or use the port number you specified)