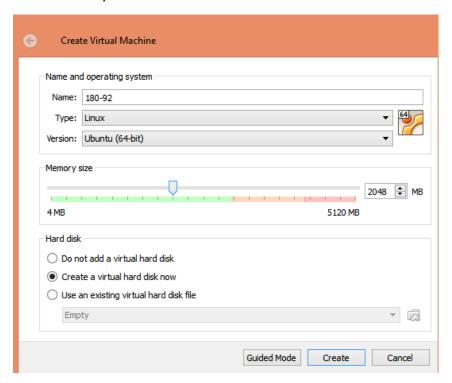
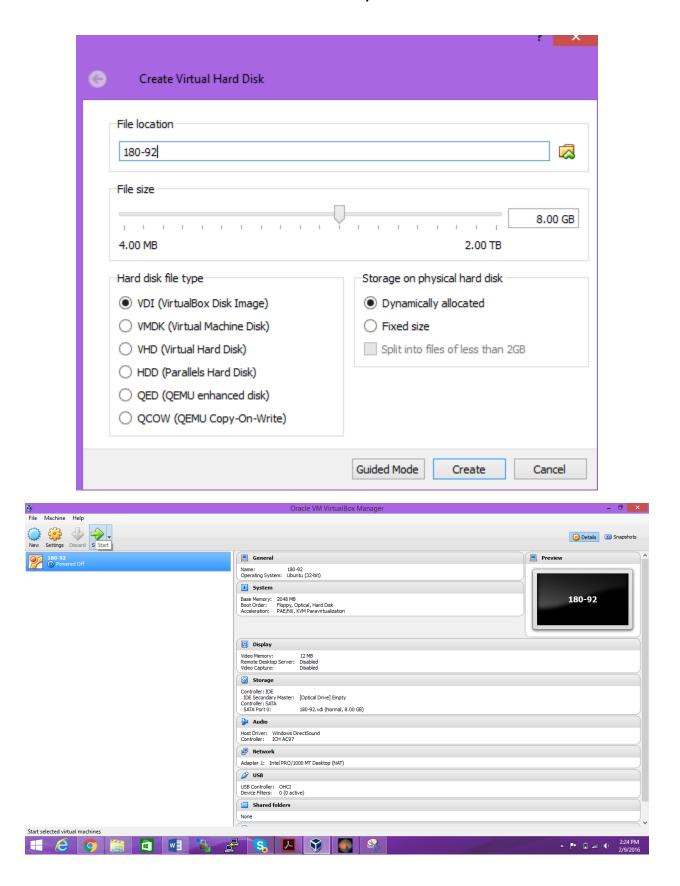
Note: By default virtualization is disabled in a few Lenovo laptops. If your system is a 64 bit system and you get error while loading Ubuntu on vbox, enable soft virtualization (svm) from boot menu(configurations tab)

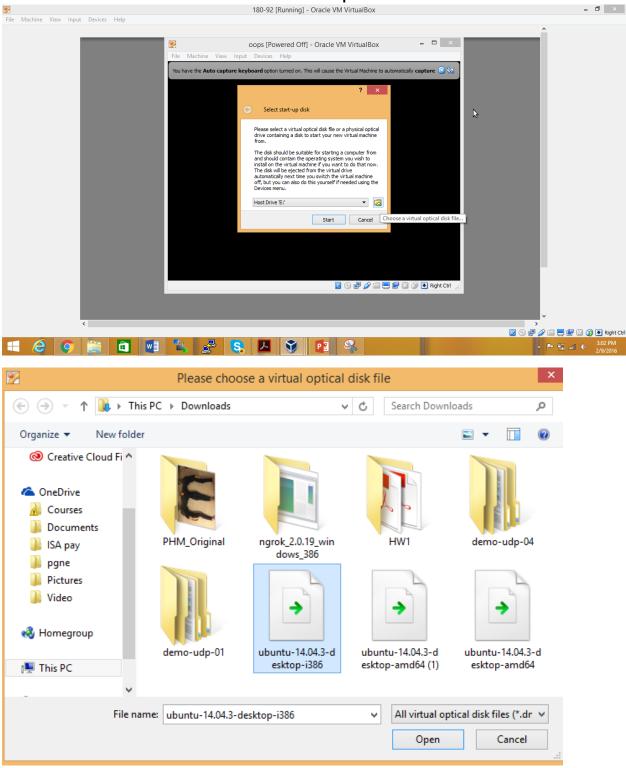
- Download Oracle Virtual Box from the following link
   http://www.oracle.com/technetwork/server-storage/virtualbox/downloads/index.html
- Install Ubuntu 14.04.3 from the following website( if the vbox created is 32bit download 32 bit Ubuntu else 64 bit)
   http://www.ubuntu.com/download/desktop
- Load Ubuntu on the virtual box
  - Open Vbox



- Click New->enter name->type:linux->Version: Ubuntu(64/32 bit)->next
- Select Memory as 2048->click next->create

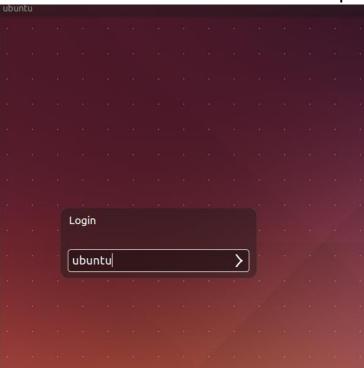




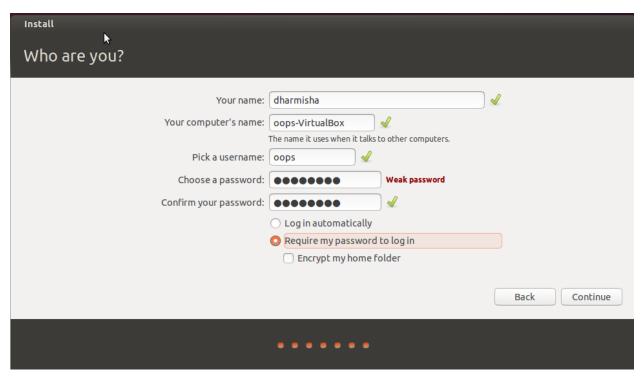


#### Login

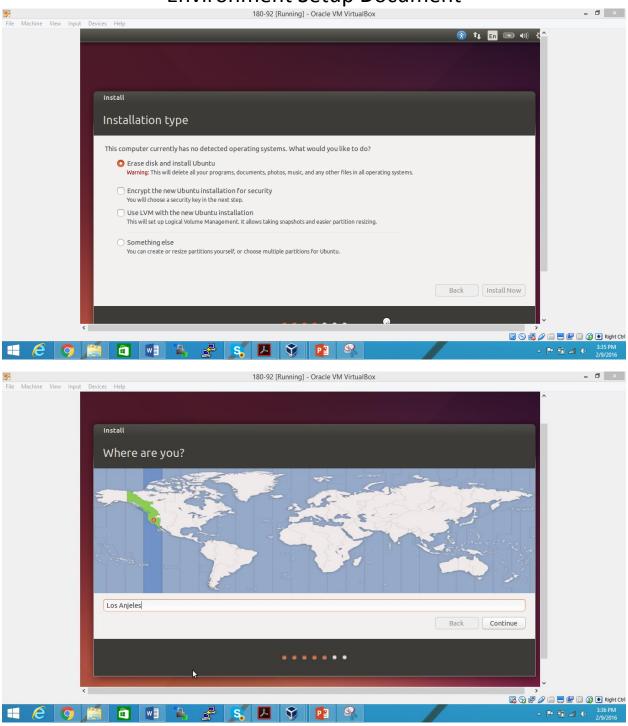
 Login with the default user name i.e ubuntu in small letters, there is no password



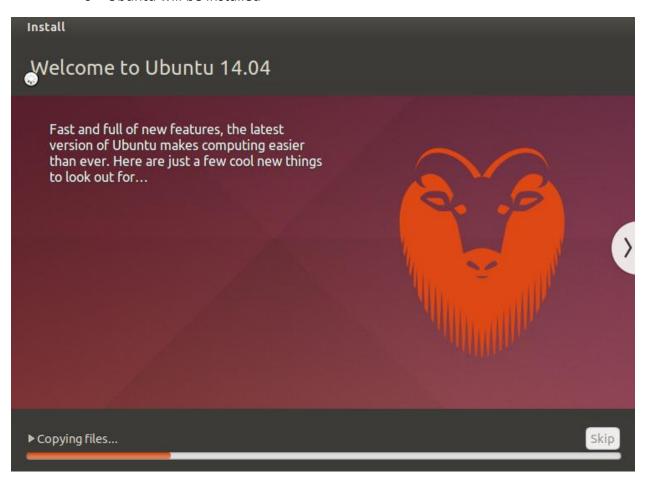
After logging in click-> install Ubuntu-> and follow steps



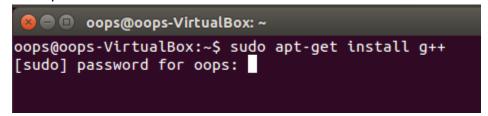
# Environment Setup Document 180-92 [Running] - Oracle VM VirtualBox



Ubuntu will be installed



- Open the terminal using ctrl+alt+t and enter the following commands to install g++ and enabling C++ 11 features
  - o sudo apt-get install g++
  - o Enter password for vm



o gedit ~/.bash aliases

```
❷ ■ ■ oops@oops-VirtualBox:~
oops@oops-VirtualBox:~$ gedit ~/.bash_aliases
```

- A text file opens, enter the following alias
  - alias g++='g++ -std=c++11'
  - press ctrl+s (saving the file) and close it

```
alias g++='g++ -std=c++11'
```

Enter source ~/.bashrc to implement the changes made

 Enter a simple program as follows to test c++ 11 features in a text file in my documents and save it as test.cpp

```
#include <iostream>
#include <cmath>
#include <typeinfo>
using namespace std;

int main()
{
    auto a = 1.1 + 2;
    cout << "type of a: " << typeid(a).name() << '\n'<< a<<endl;
}</pre>
```

 Compile and run the same. If there are errors such as type of 'a' is undefined, recheck and perform the above steps again.

Congratulations! Your Environment is set up.