Install Kinect Sensor, OpenNI, PrimeSense Ubuntu 12.04

This tutorial is modified from the post by Michael.

Step 1. install dependencies

$ sudo apt-get install git-core cmake freeglut3-dev pkg-config build-essential libxmu-dev libxi-dev libusb-1.0-0-dev doxygen graphviz mono-complete

Step 2. Make a directory for installation (you should install the git if you don't have it)
$ mkdir ~/kinect && cd ~/kinect
$ git clone https://github.com/OpenNI/OpenNI.git

Step 3. **install OpenNI**

install Java sdk

$ sudo apt-get install openjdk-7-jdk

$ cd OpenNI/Platform/Linux/CreateRedist/

$ chmod +x RedistMaker

$ ./RedistMaker

$ cd ../Redist/OpenNI-Bin-Dev-Linux-x64-v1.5.2.23/

$ sudo ./install.sh

Step 4. Install KinectSensor

download the package from here, extract and install.

For my case, I download this one SensorKinect093-Bin-Linux-x64-v5.1.2.1.tar.bz2 — SensorKinect-0.93 (5.1.2.1) for Ubuntu 12.04 64-bit (x64)

$ tar xvjf SensorKinect093-Bin-Linux-x64-v5.1.2.1.tar.bz2

$ cd Sensor-Bin-Linux-x64-v5.1.2.1/

$ sudo ./install.sh

Step 5. download Primesense NITE

$ tar xvjf NITE-Bin-Linux64-v1.4.0.5.tar.bz2
$ cd ~/kinect/NITE/Data
# Change License for Sample-Scene.xml, Sample-Tracking.xml, and Sample-User.xml.
# <License vendor="PrimeSense" key="0KOIk2JeIBYClPWVnMoRKn5cdY4="/>
$ sudo nano Sample-Scene.xml
# then change the license for all the .xml files.

Step 6. Test Kinect Installation
Plug in your Kinect, go to folder
$ ~/kinect/OpenNI/Platform/Linux/Bin/x64-Release

or
$ cd ~/kinect/NITE/Samples/Bin/Release
$ ./Sample-PointViewer