

# phyBOARD-WEGA-AM335x

## Software Development Kit Installing Manual for Windows



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## 1. Installing WEGA SDK

Download the Source of WEGA\_SDK for windows64 bit machine from the following link

<ftp://ftp.phytec.de/pub/Products/India/phyBOARD-WEGA-AM335x/Linux/PD14.0.0/tools/WinHostSDK/>

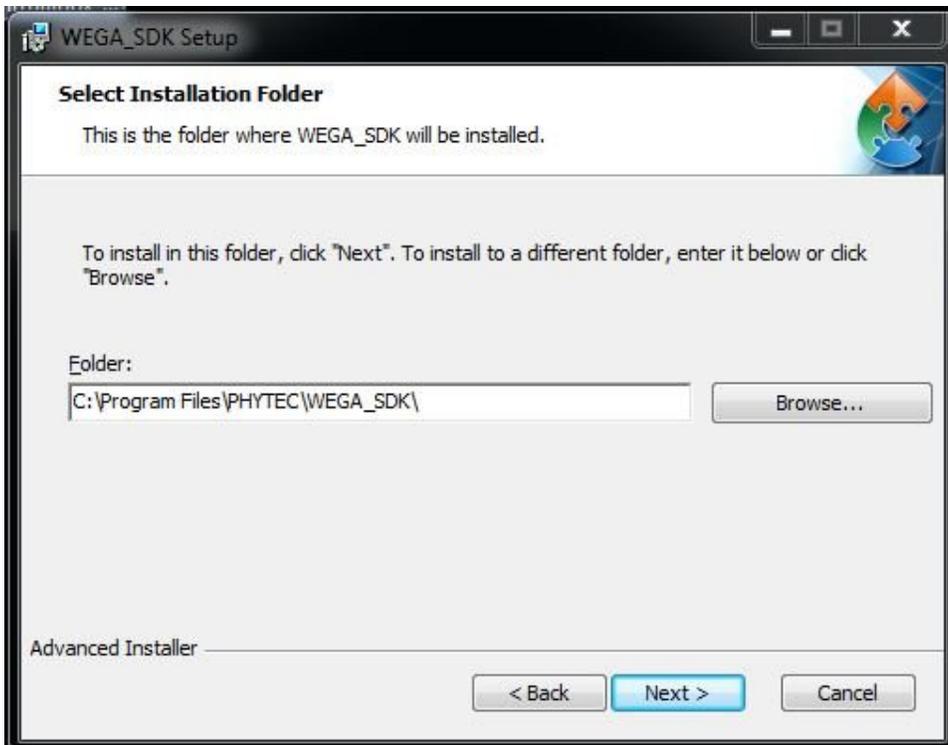
or copy from the DVD placed in Windows Directory, installing steps are as below.

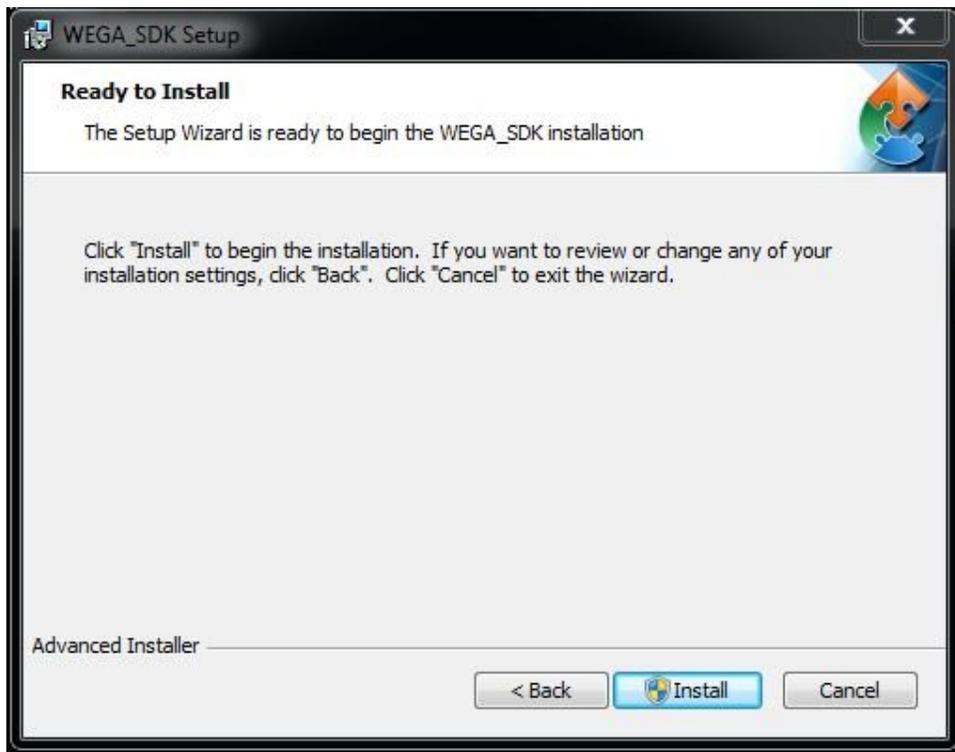


All the license agreements are explained here,



Give the path other than 'C' drive, it require minimum 2.5 GB of free space,





After installing the Software, installed directory contains the following contents

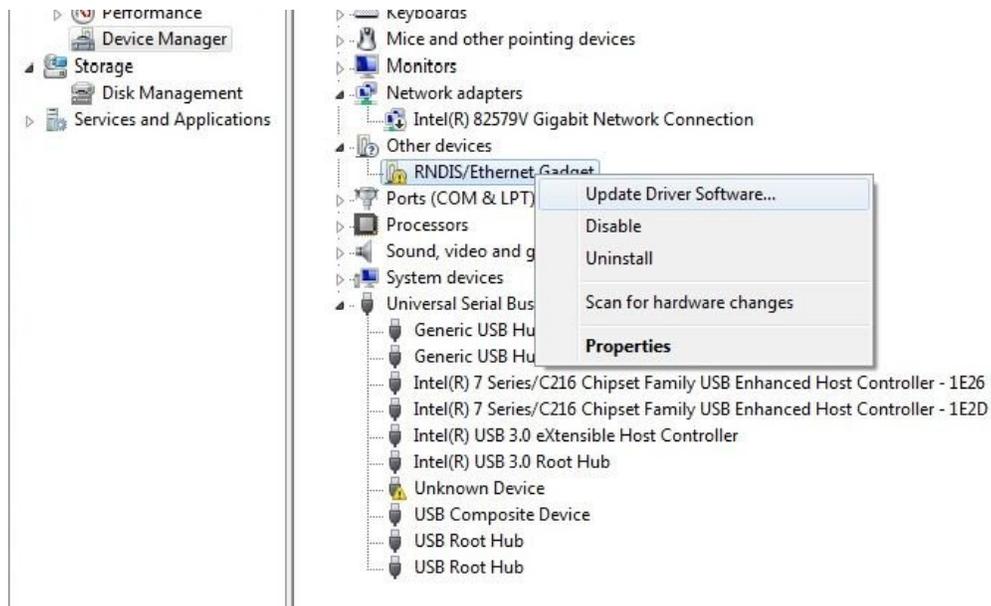
### 1.1 Contents in the installed directory

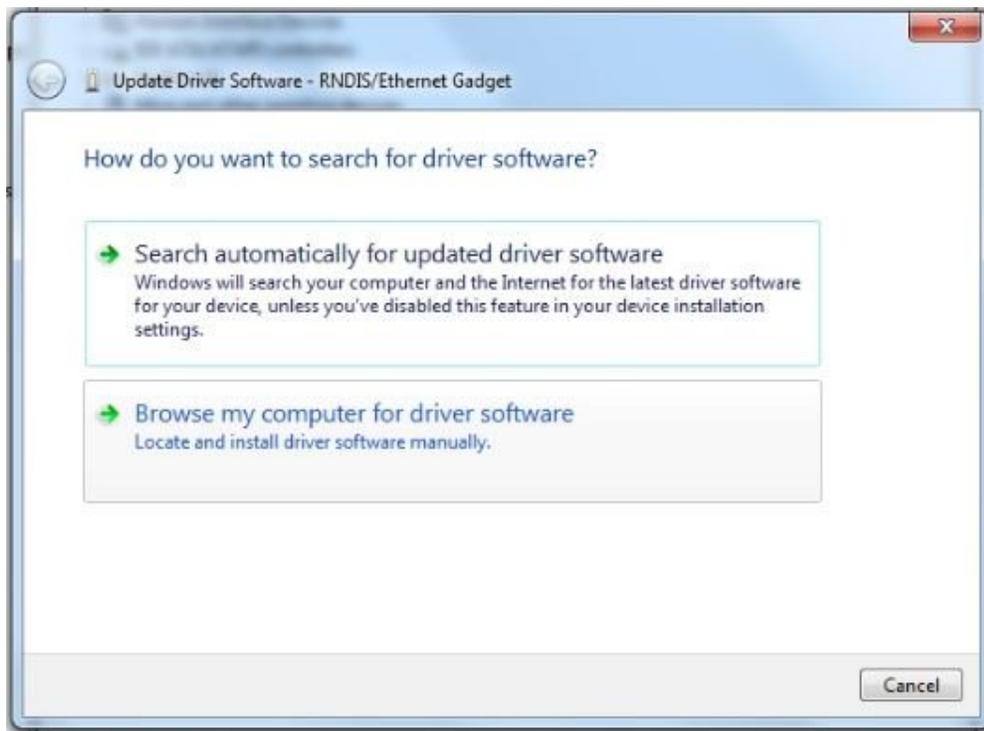
- \docs\: directory contains the documents of Application development kit, QT development kit and system development kit for linux
- \eclipse\: it contains installed eclipse IDE setup
- \images\: all the images required to boot the board with 256MB NAND flash, subdirectory with 'images\_512MB' is for WEGA board with 512MB NAND flash
- \msys\: this setup adds linux commands to work in windows machine
- \README\: all the software licenses document is here
- \src\: it contains patched sources of bootloaders, kernel and their patches
- \toolchain\: toolchain for cortex-A8
- \tools\: softwares like putty, tftpd, USBNet\_Drivers.

## 2. Installing USB RNDIS driver in Windows

WEGA Board is mounted with Micro USB port which can use as virtual Ethernet, Connect the board with Micro-AB USB cable from a free USB port on your host PC to the WEGA Board.

The Windows Host PC will detect the WEGA Ethernet Device and the network interface will show up in ifconfig as `usb0`, if the driver of RNDIS is not installed in windows PC follow the steps

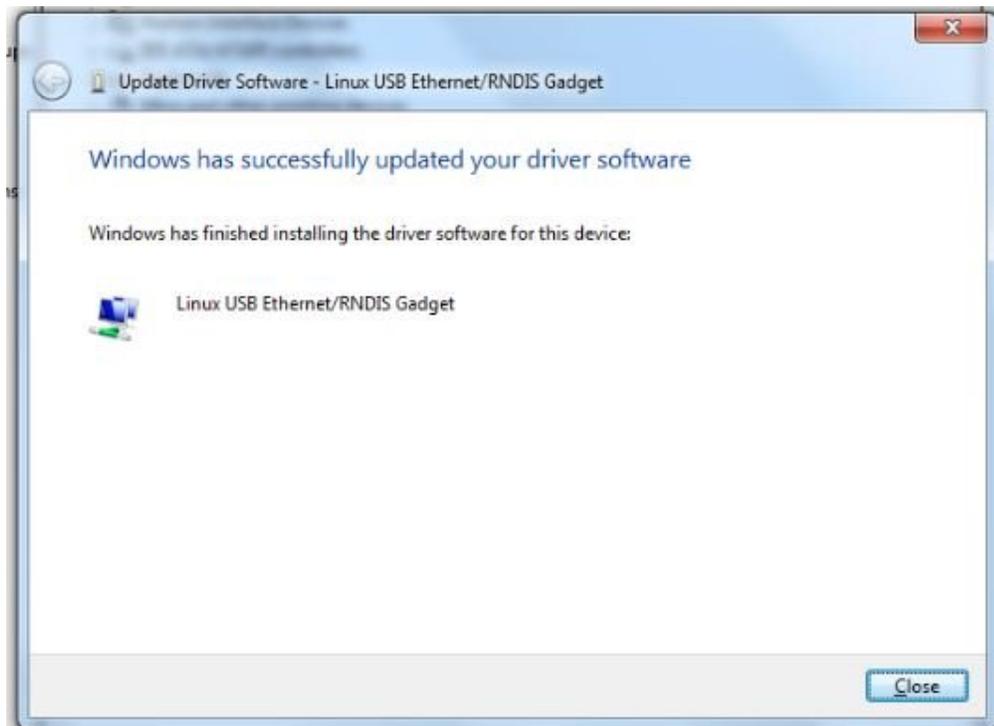




Give the path of

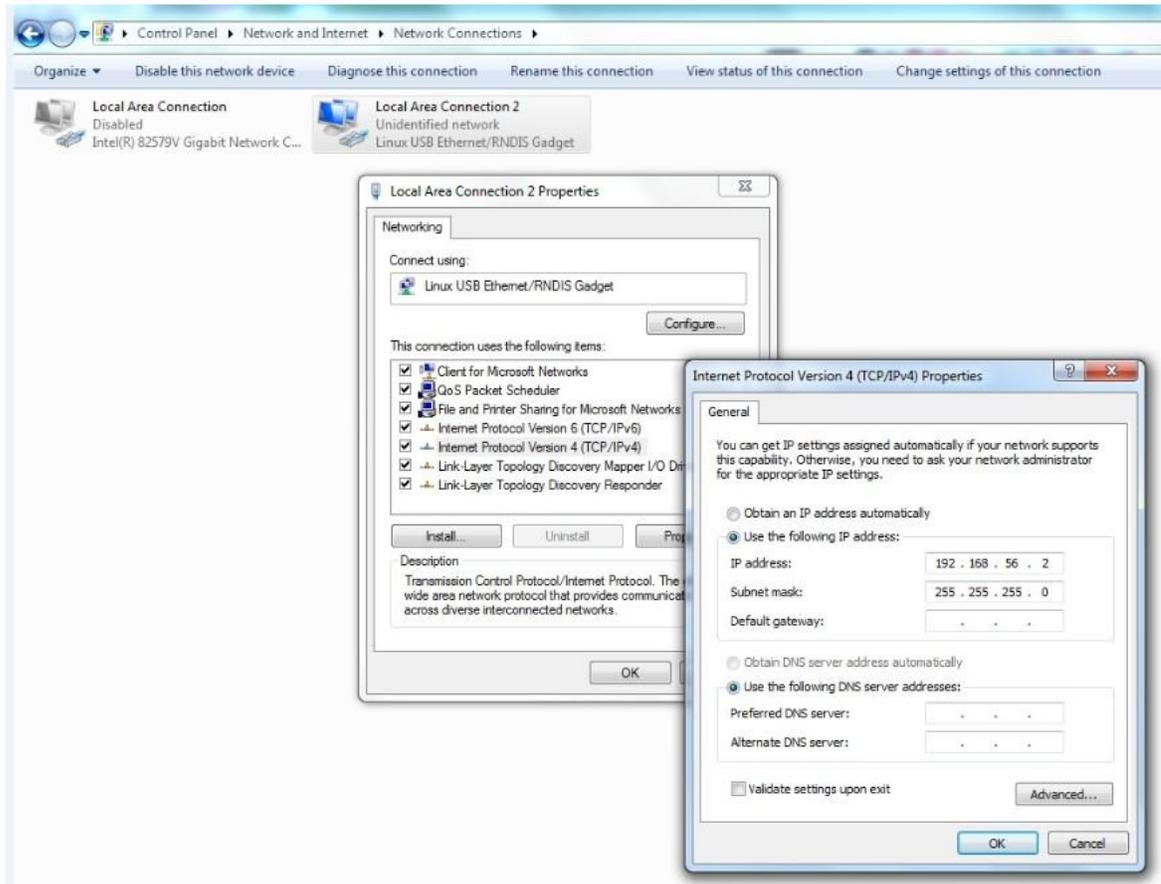
<path of WEGA\_SDK>\wega\_sdk\tools\USBNet\_Drivers





After installing the driver, default 'ip address' of USB0 port in board is <192.168.56.4>, so set ip in Windows machine with same network as <192.168.56.X>.

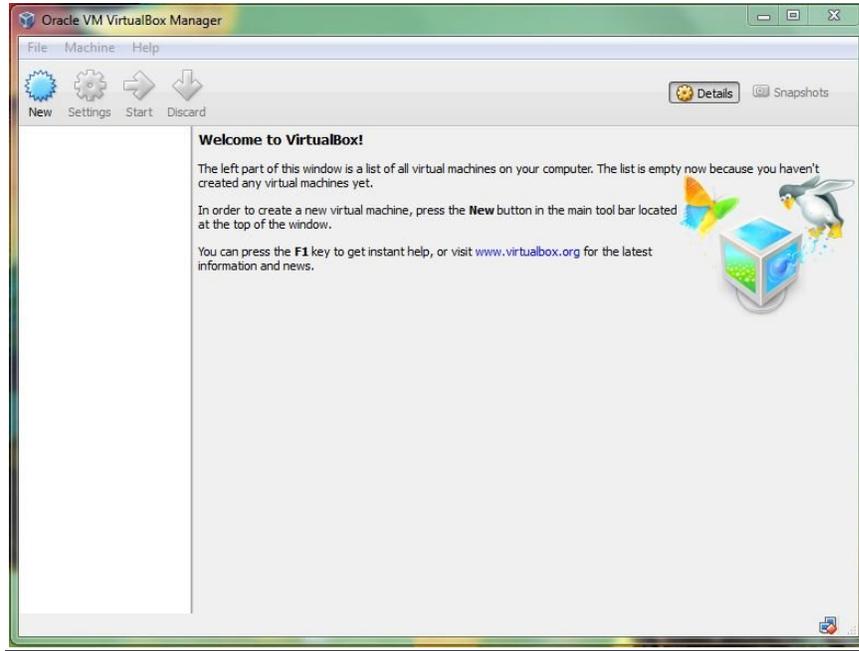
ex: 192.168.56.2



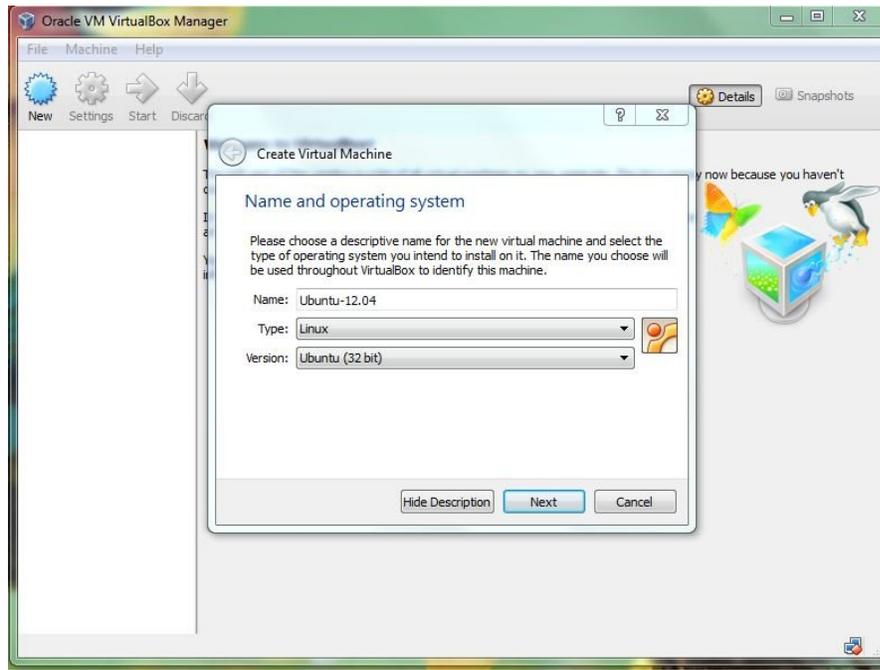
### 3. Installing Virtual Hard drive file using virtual box

To use Customized ubuntu-12.04 in virtual box follow the steps

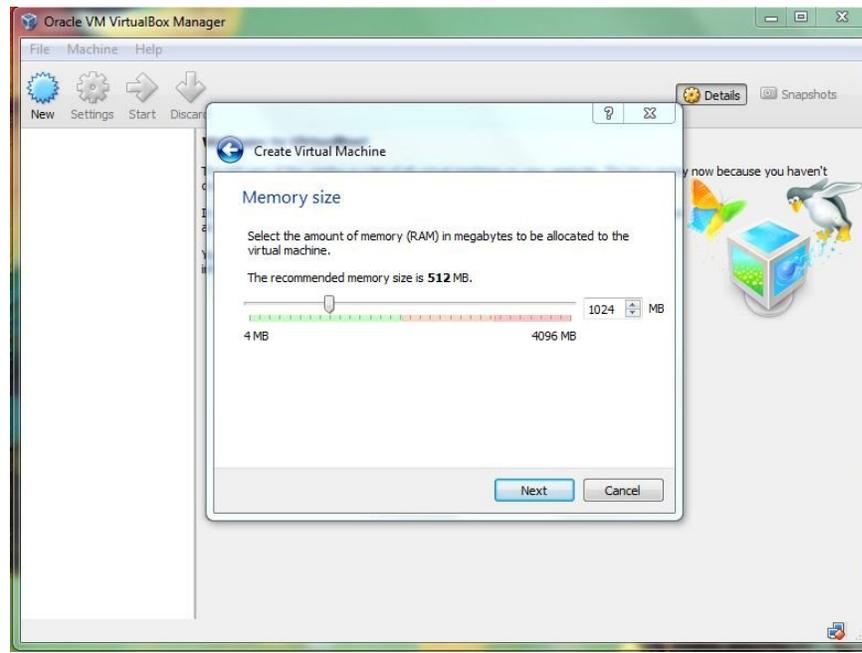
Open the Virtual Box and click on the 'New' at left corner



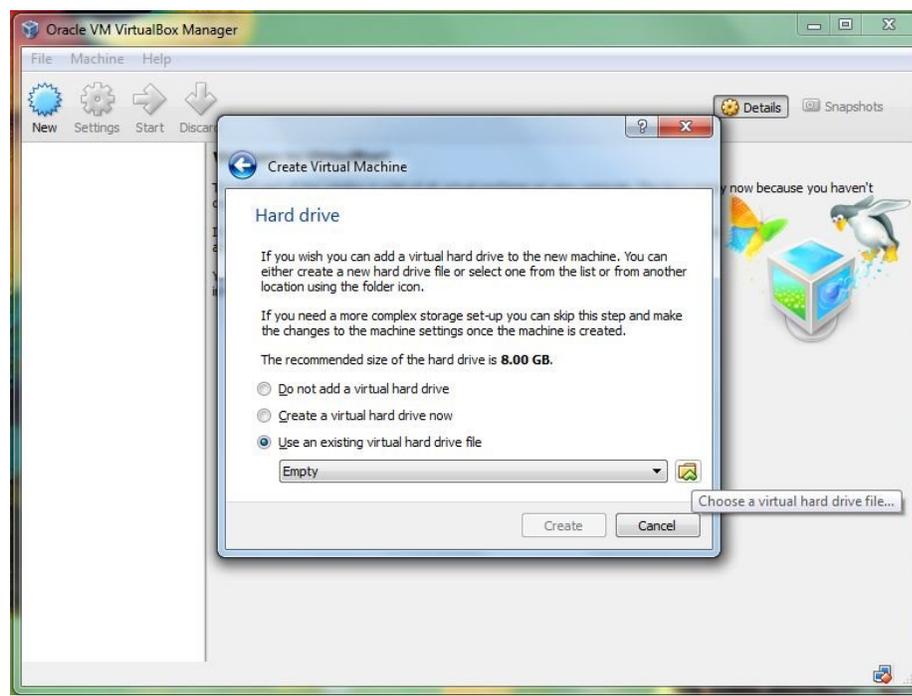
Here give the name as your wish and Version as Ubuntu (32 bit)



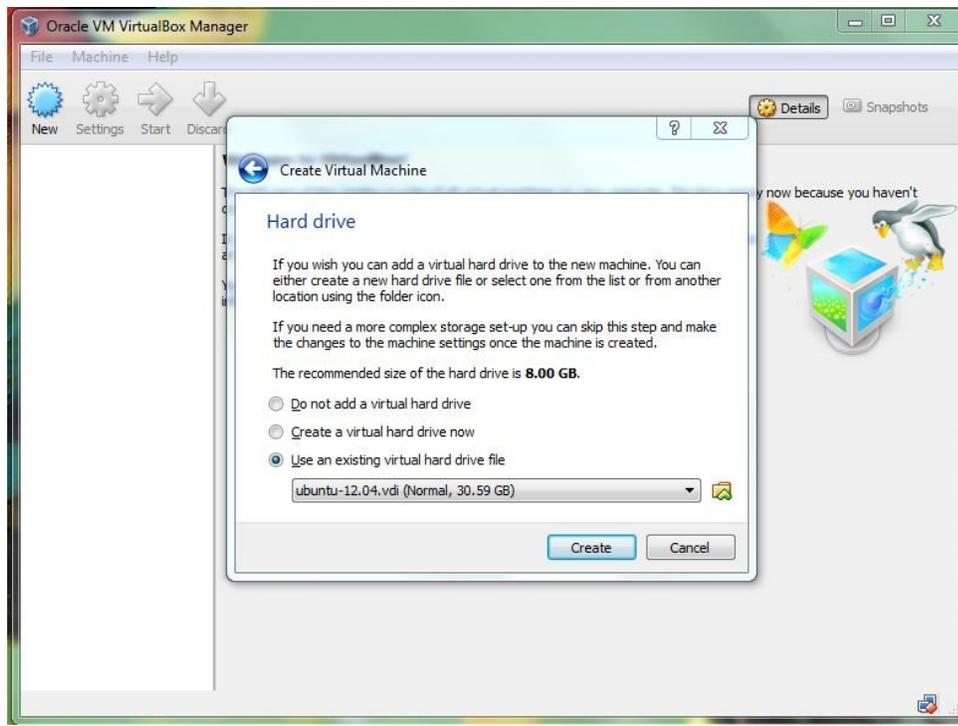
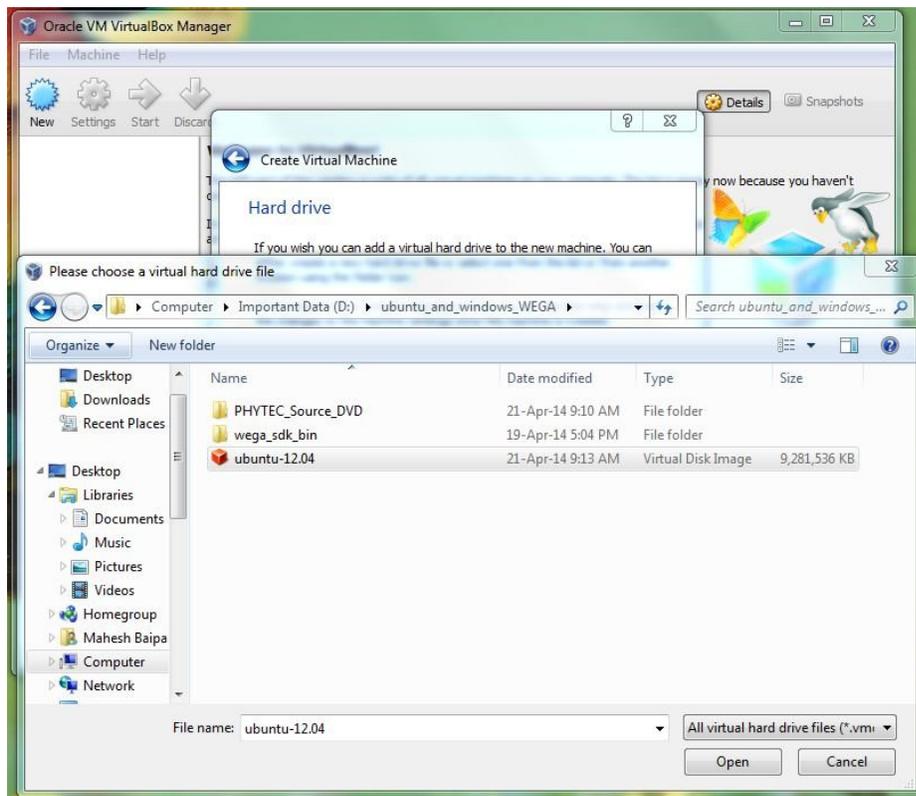
Allocate the RAM memory required ex: 1024



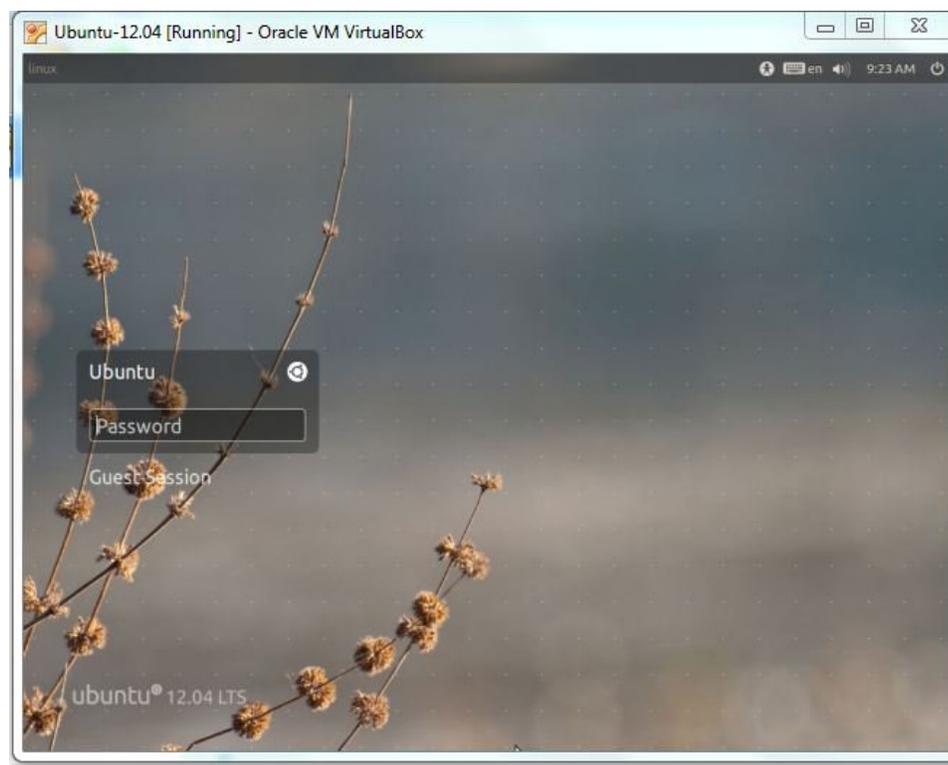
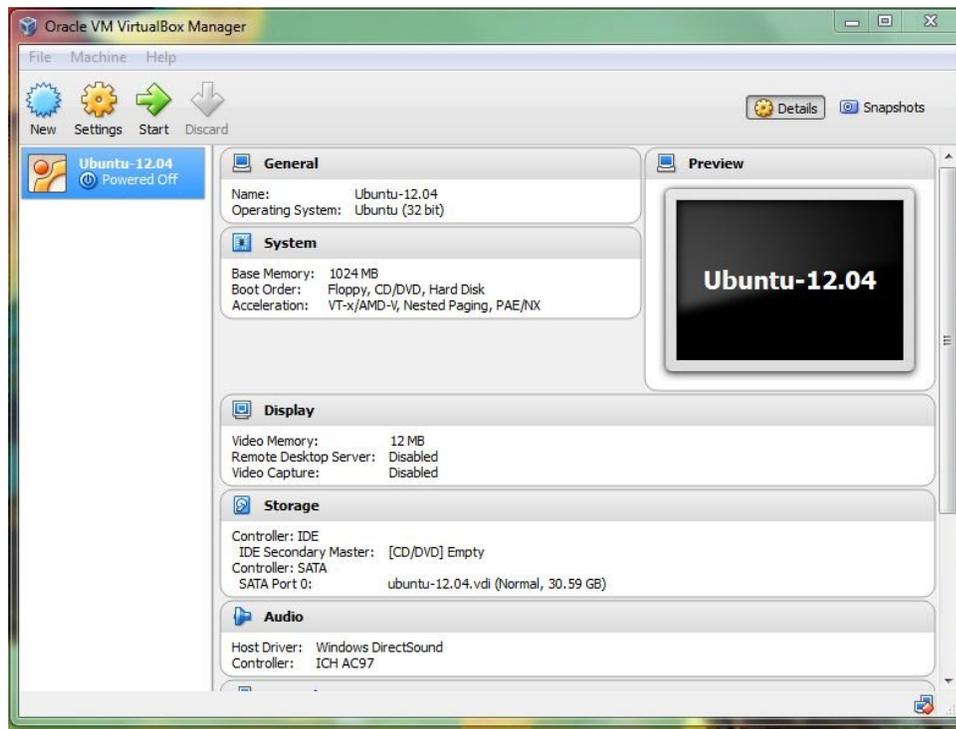
Here mark the 'Use an existing virtual hard drive file' option



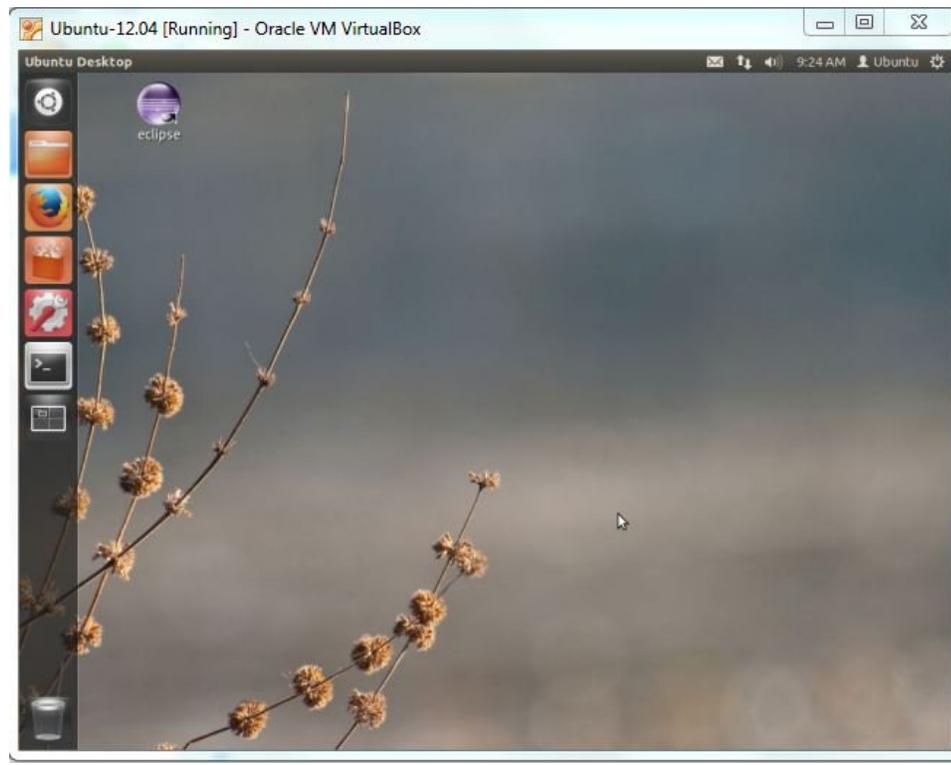
Select the path of existing virtual hard drive file which was provided in the DVD/Linux/ubuntu-12.04, extract the source in the drive with 8GB of free space, and give its path as follows



After selecting the existing hard drive file create it, so that customized ubuntu got installed in the virtual box



Click on the start button, after booting enter the password as 'ubuntu'



### 3.1 Contents present in the Customized Ubuntu-12.04 for WEGA

- /var/phytec/phycore-AM335x/PD13.1.2  
Contains all the prebuilt images and sources of RDK (Rapid Development Kit)
- /var/phytec/wega/images  
All the prebuilt images for WEGA
- /var/phytec/wega/scripts  
Script to prepare the SD-Card for MMC booting
- /var/phytec/wega/src  
Contains the extracted sources of bootloder, kernel and root\_file\_system of both hard\_float and soft\_float
- /var/phytec/wega/tools/  
Contains eclipse IDE, QT, and toolchains for both hard\_float and soft\_float.