Software Installation

BLG413E – System Programming, Practice Session

Different Ways of Installing Linux

- Linux distribution is installed on PC's harddisk.
- Figh performance usage.
- Installation alongside with another Operating System (such as Windows).
 - Intros://inclosushius.com/community/AV/indov/sDutalBoot

Different Ways of Installing Linux

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- Linux distribution is installed on a usb flash drive using a tool such as Universal USB installer
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Different Ways of Installing Linux

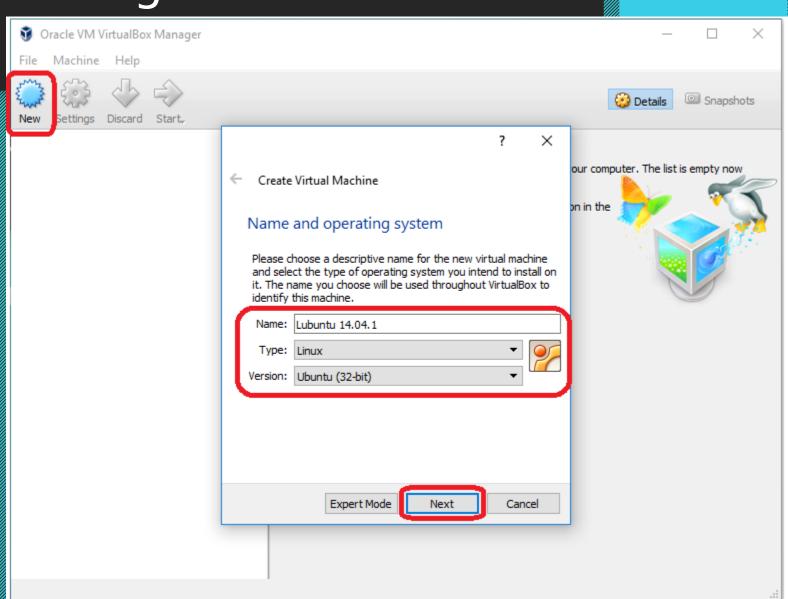
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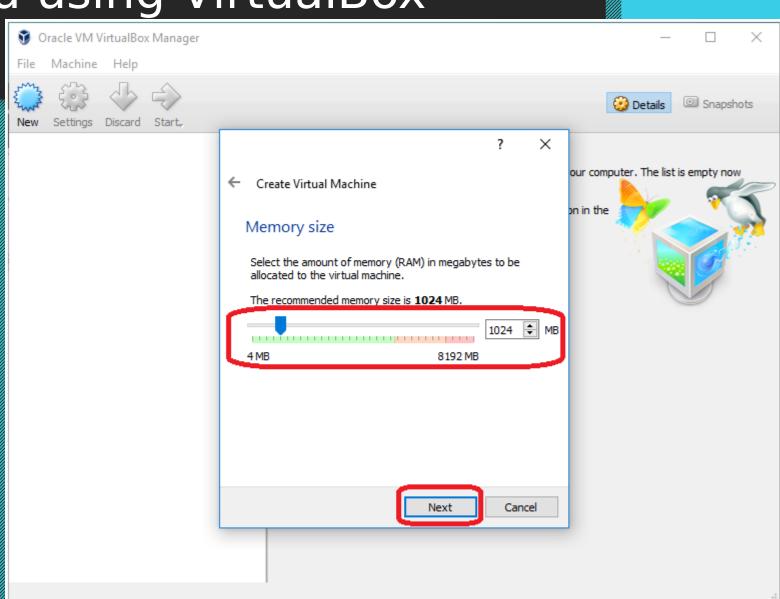
- Linux distribution is installed on a virtual machine in another Operating System (such as Windows).
- Virtualization tools such as VirtualBox are used for this purpose.

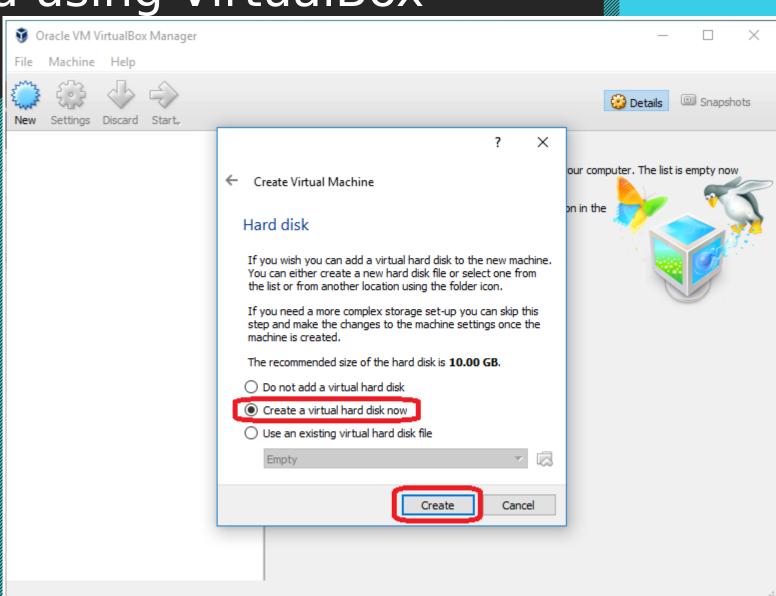
Operating System Used in This Course

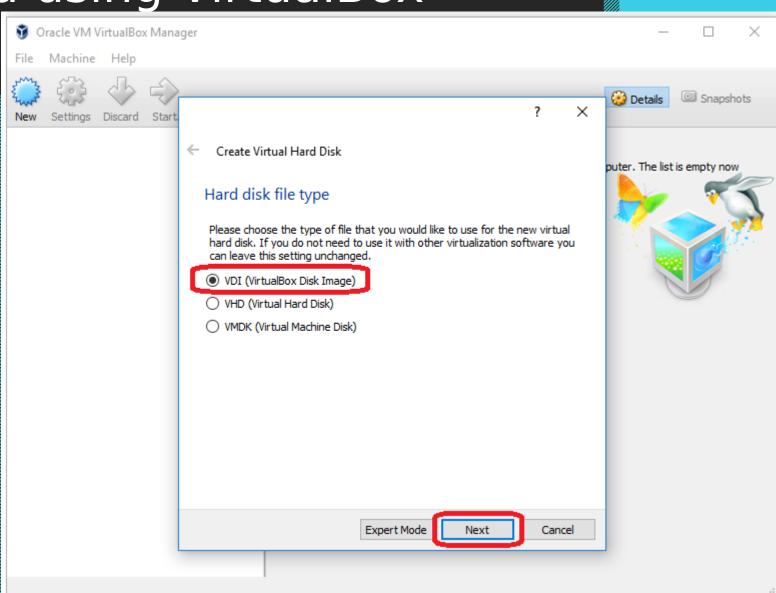
 Course material was tested on Lubuntu 14.04.5 LTS "Trusty Tahr" release, 32 bit version. Although most of the practical information in the material can be applied to any Ubuntubased system, you might encounter problems when working on a different version.

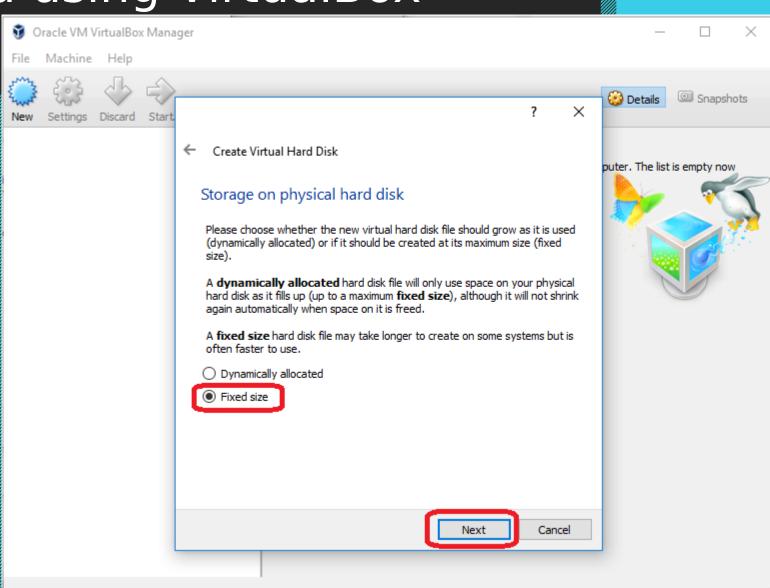
- Download and install VirtualBox compatible with the operating system you use (Windows, Mac OS etc.):
 - Interpresentation of the property of the property
- 2. Download Lubuntu 1.4.04.1 LTS (Trusty Tahr) 32-bit PC (386) desktop image:
 - haitig.// Imux.psu.ru/lubumitu-releases/1/4.40/4/release/lubumitu-1/4.40/4/1-deskitop -4386/rso

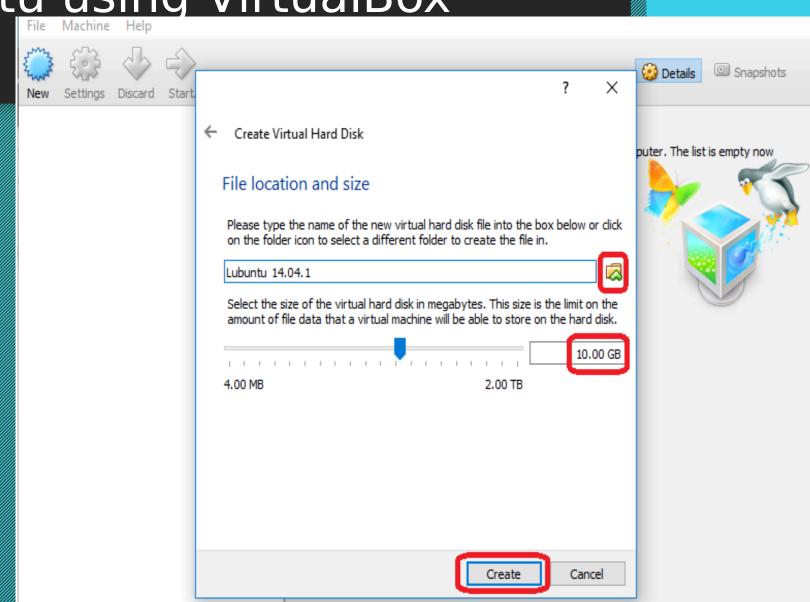


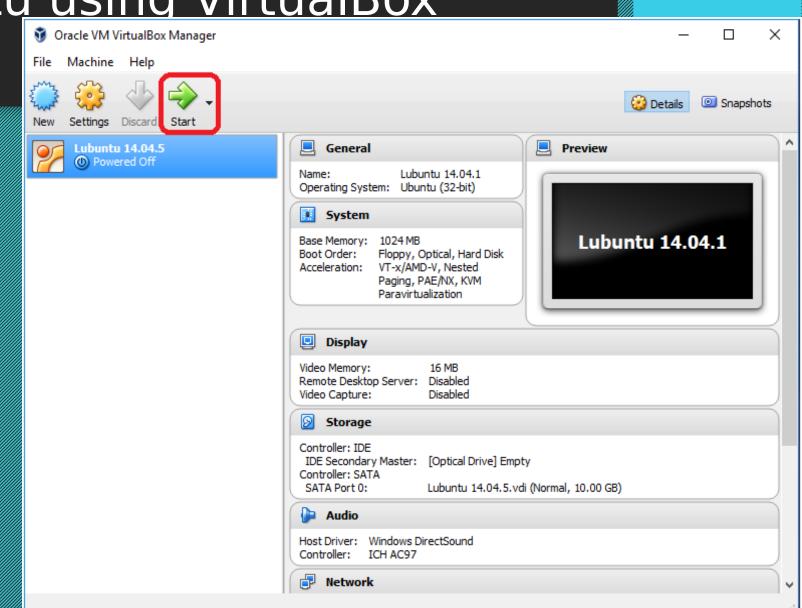


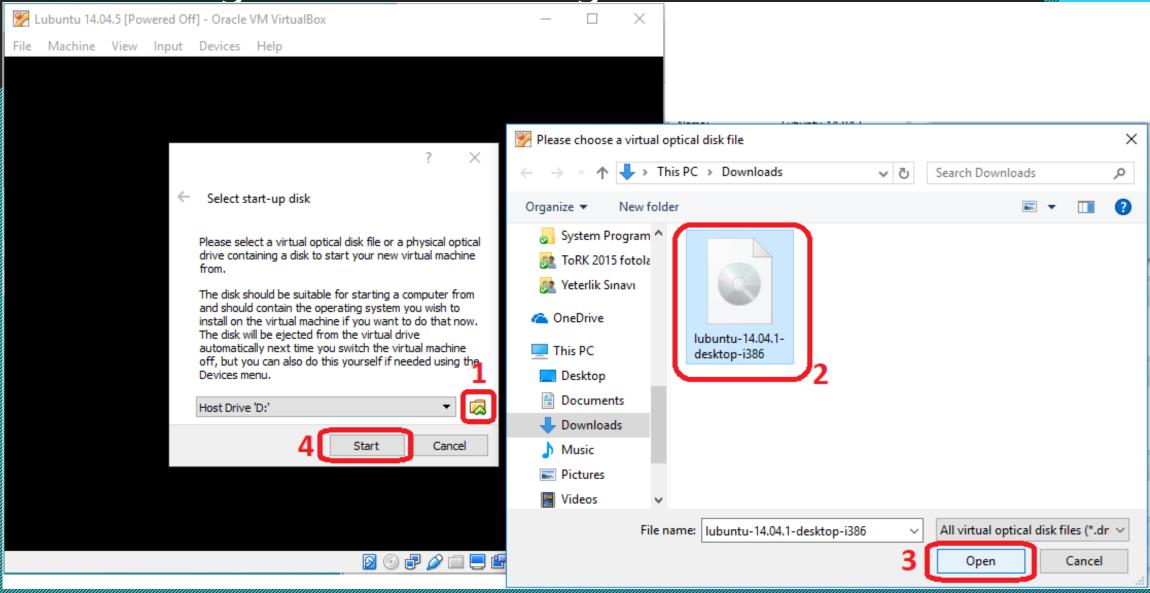






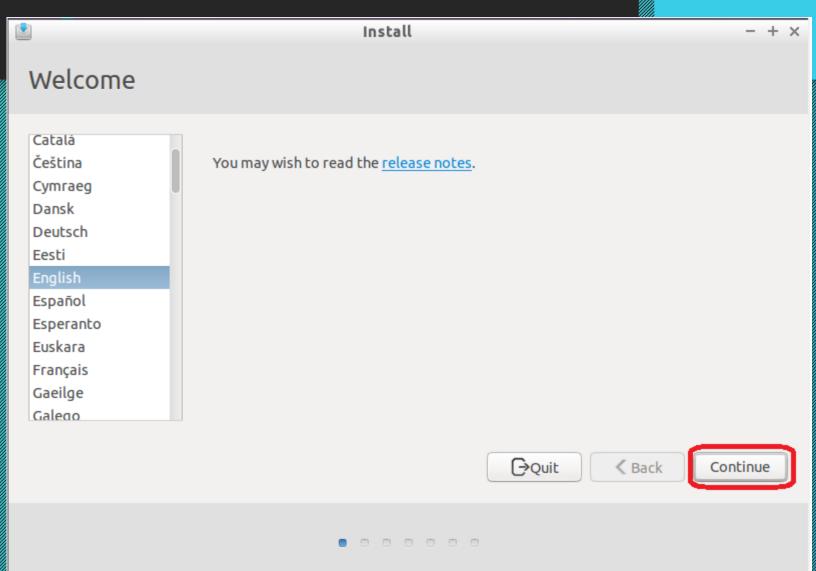


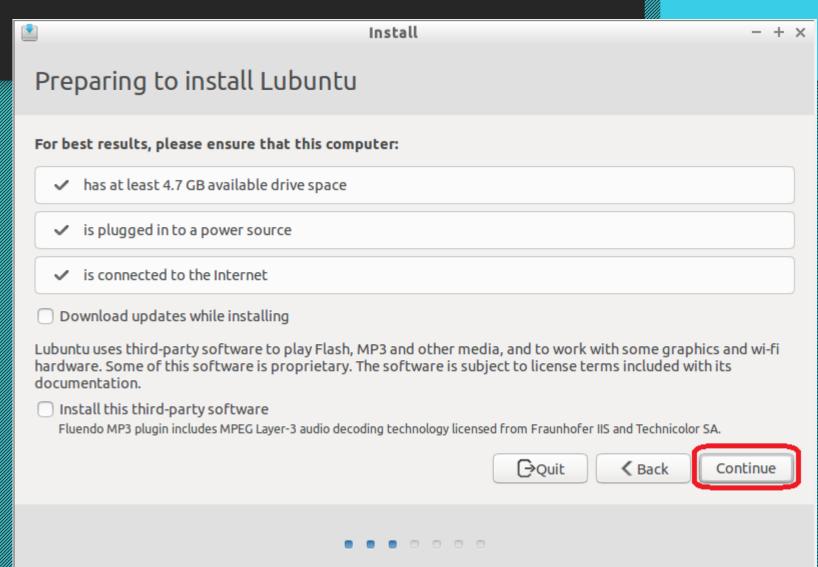


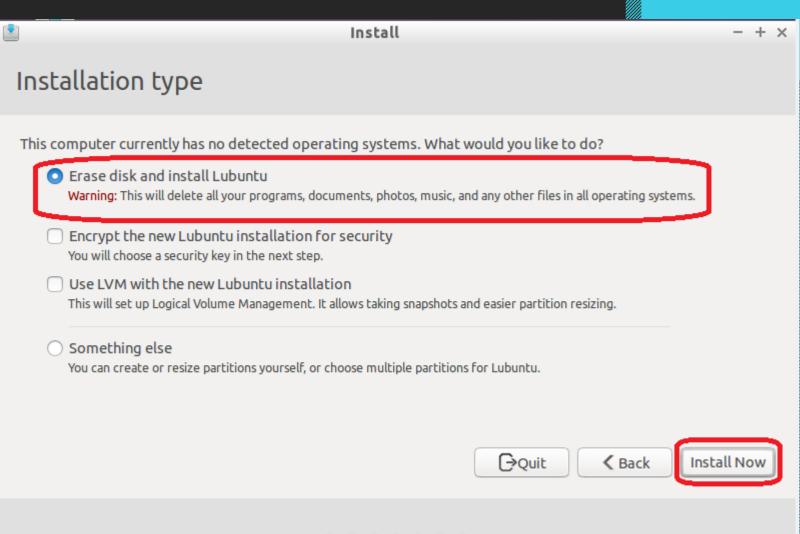


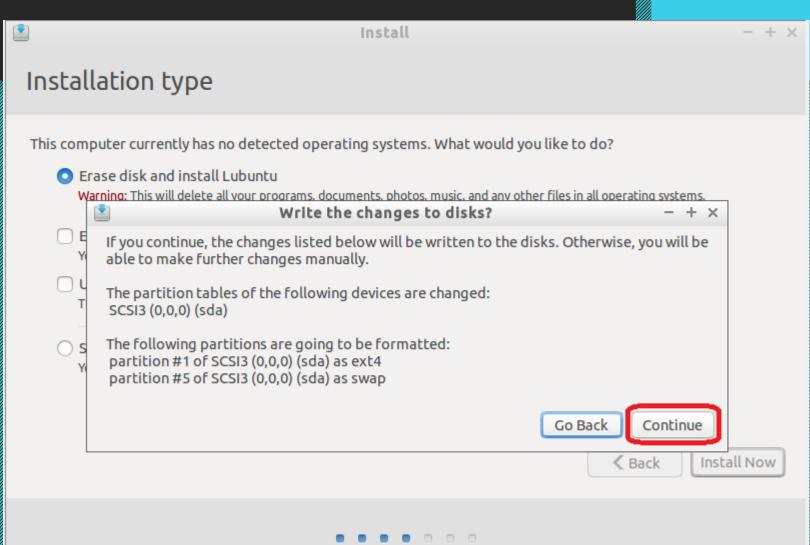
Install Lubuntu 14....

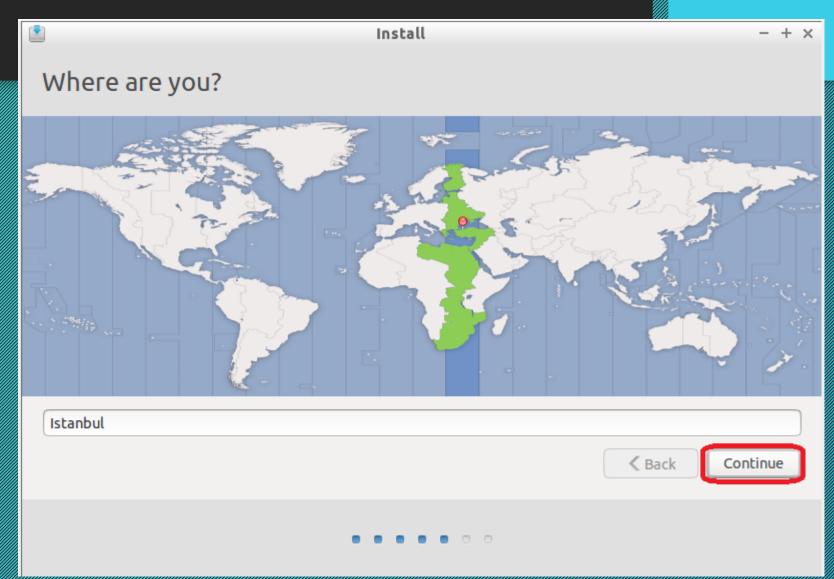


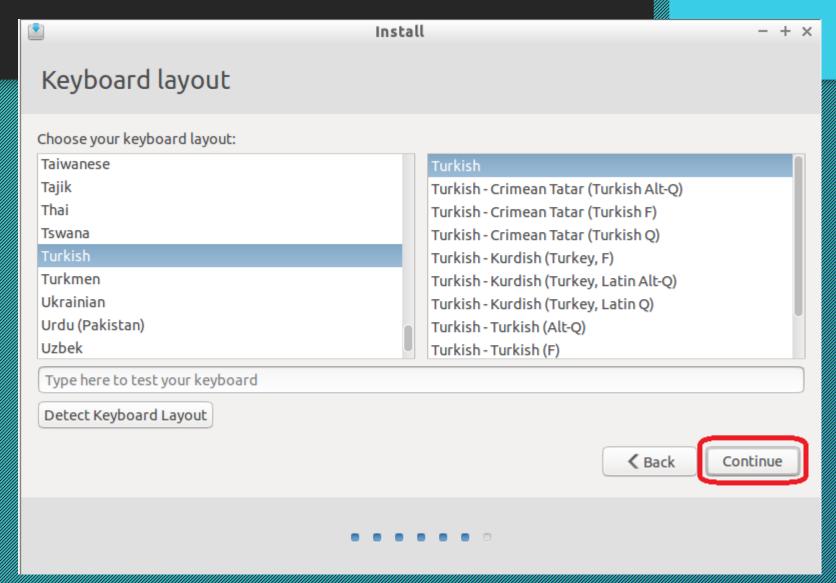


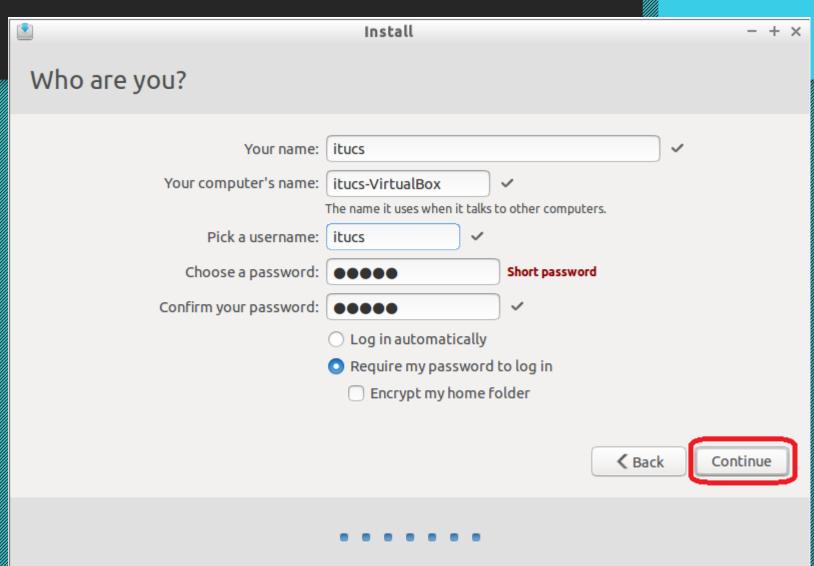




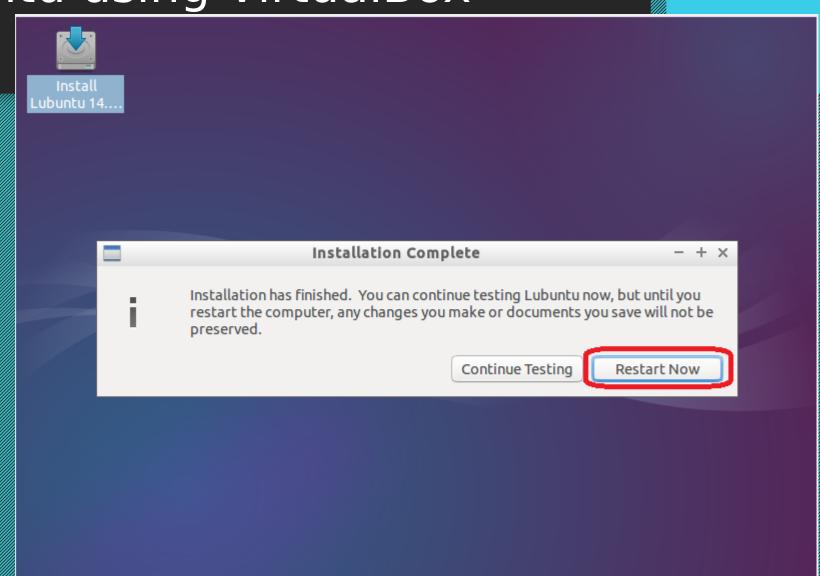


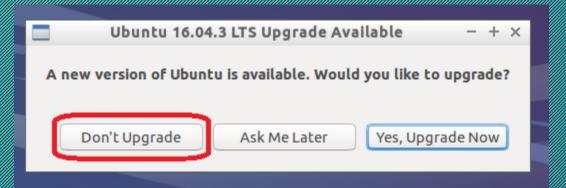






- 4. Install Lubuntu on viitual machine
 - Wait until the installation is complete



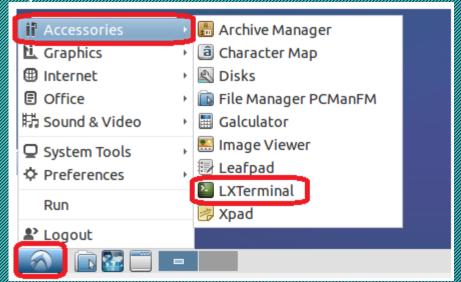


5. Install required software for the course

- linux-headers-\$(uname -r)

- IIbnourses5-dev

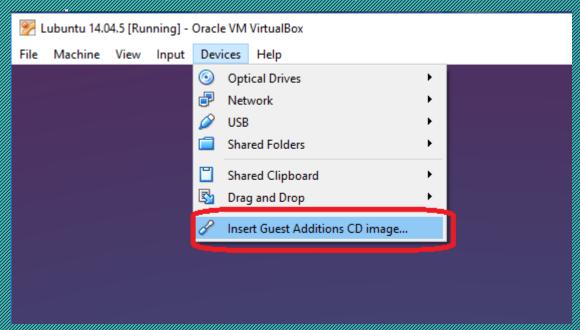
- 5. Install required software for the course:
 - Olosen tempminal



- 5. Install required software for the course:
 - Update package lists
 - sudo apt-get update
 - Install required packages
 - sudo apt-get install manpages-dev g++ patch strace ltrace linux-headers-\$
 (uname -r) linux-source kernel-package fakeroot libncurses5-dev libfuse-dev
 virtualbox-guest-x11
 - Install a code editor
 - sudo apt-get install geany

Installing VirtualBox Guest Additions

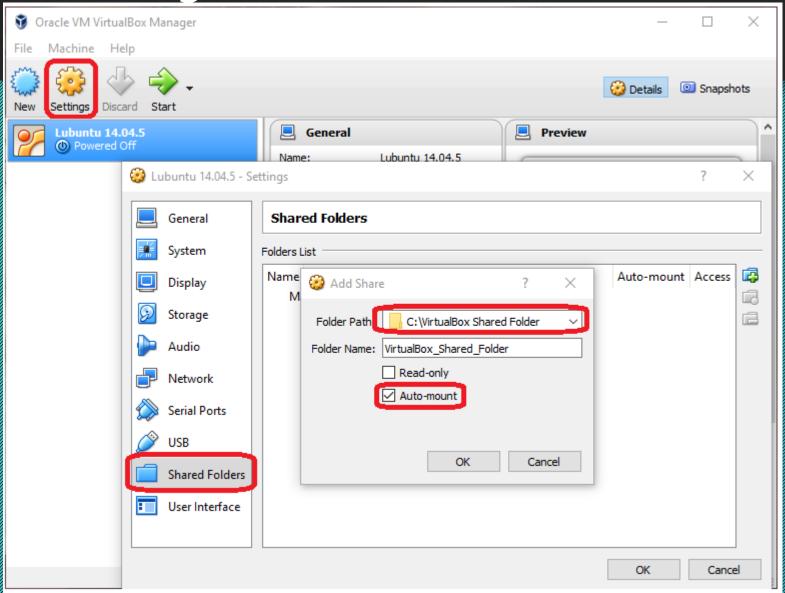
 Guest additions are necessary to be able to share files between your host operating system and virtual operating



Installing VirtualBox Guest Additions

```
itucs@itucs-VirtualBox: /media/itucs/VBOXADDITIONS 5.1.26 117224
File Edit Tabs Help
itucs@itucs-VirtualBox:~$ cd /media/itucs/VBOXADDITIONS 5.1.26 117224/
itucs@itucs-VirtualBox:/media/itucs/VBOXADDITIONS 5.1.26 117224$ sudo sh ./VBoxLinuxAdditions.run
[sudo] password for itucs:
Verifying archive integrity... All good.
Uncompressing VirtualBox 5.1.26 Guest Additions for Linux.......
VirtualBox Guest Additions installer
Copying additional installer modules ...
Installing additional modules ...
vboxadd.sh: Starting the VirtualBox Guest Additions.
You may need to restart the Window System (or just restart the guest system)
to enable the Guest Additions.
itucs@itucs-VirtualBox:/media/itucs/VBOXADDITIONS 5.1.26 117224$ sudo reboot
```

Creating a Shared Folder



Creating a Shared Folder

· Add your user to VirtualBox shared folder group for giving

```
itucs@itucs-VirtualBox:~ - + ×

File Edit Tabs Help

itucs@itucs-VirtualBox:~$ sudo adduser itucs vboxsf

[sudo] password for itucs:

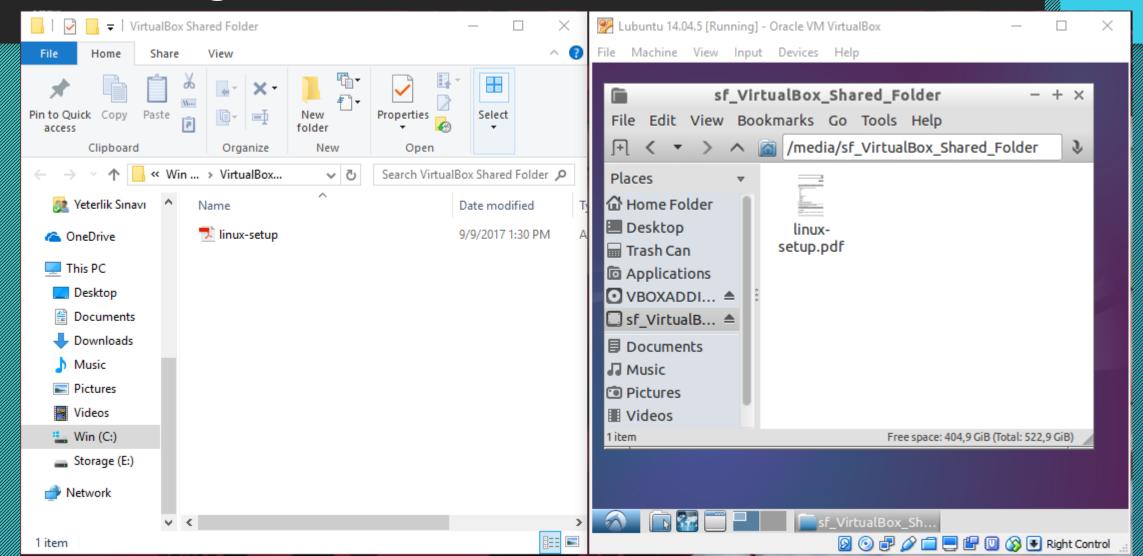
Adding user `itucs' to group `vboxsf' ...

Adding user itucs to group vboxsf

Done.

itucs@itucs-VirtualBox:~$ sudo reboot
```

Creating a Shared Folder



Sharing Clipboard Between Host OS and Virtual OS

