



MAWLANA BHASHANI SCIENCE AND TECHNOLOGY UNIVERSITY

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LAB REPORT

Lab Report No : 01
Lab Report name : How to install Linux operating system.
Course Title : Operating System Lab
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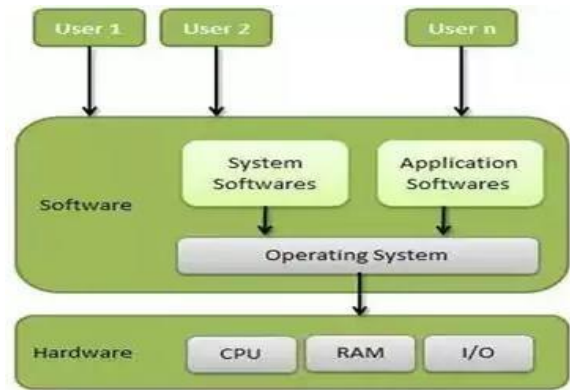
Experiment NO : 01

Experiment Name : How to install Linux operating system.

Introduction :

i) What is Linux Operating system?

Linux® is an open source operating system (OS). An operating system is the software that directly manages a system's hardware and resources, like CPU, memory, and storage. The OS sits between applications and hardware and makes the connections between all of your software and the physical resources that do the work.



ii) Different Type of Linux Distribution.



iii) How can we install Linux Operating System?

Installing Linux using USB stick

This is one of the easiest methods of installing Ubuntu or any distribution on your computer. Follow the steps.

Step 1) Download the .iso or the OS files on your computer from this [link](#).

Download Ubuntu Desktop

Ubuntu 16.04.3 LTS

Download the latest LTS version of Ubuntu, for desktop PCs and laptops. LTS stands for long-term support — which means five years of free security and maintenance updates, guaranteed.

[Ubuntu 16.04 LTS release notes](#)

Recommended system requirements:

- 2 GHz dual core processor or better
- 2 GB system memory
- 25 GB of free hard drive space
- Either a DVD drive or a USB port for the installer media
- Internet access is helpful

[Download](#)
[Alternative downloads and torrents](#)

Step 2) Download free software like '[Universal USB installer](#)' to make a bootable USB stick.

Universal-USB-Installer-1.9.7.8.exe – May 2, 2017 – Changes

Update to support KDE Neon, Devuan, Vínari OS, and Ubuntu Budgie.

IMPORTANT: The Windows to Go option requires the USB be formatted NTFS with 20GB free disk space to hold the virtual disk. See [FAQ](#) for more info.

 **Download UUI**
Universal-USB-Installer-1.9.7.8.exe

[Source Code](#)

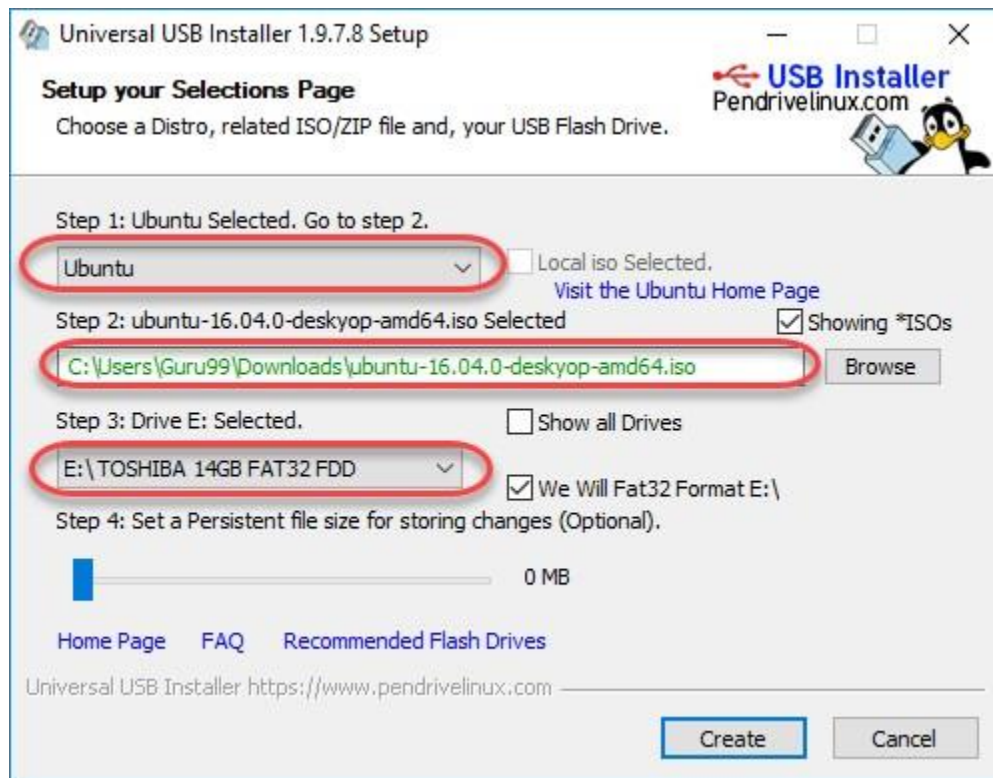
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[Basic Requirements](#) [Changelog](#) [Supported Distros](#) [FAQ](#)

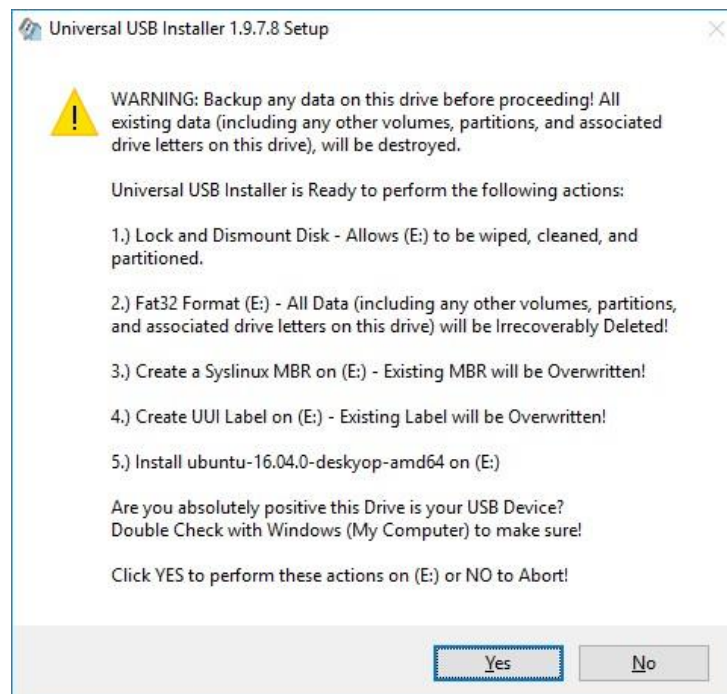
IMPORTANT NOTE: Your USB drive must be Fat32/NTFS formatted, otherwise Syslinux will fail and your drive will NOT Boot.

Step 3) Select an Ubuntu Distribution form the dropdown to put on your USB

Select your Ubuntu iso file download in step 1. Then select the drive letter of USB to install Ubuntu and Press create button.



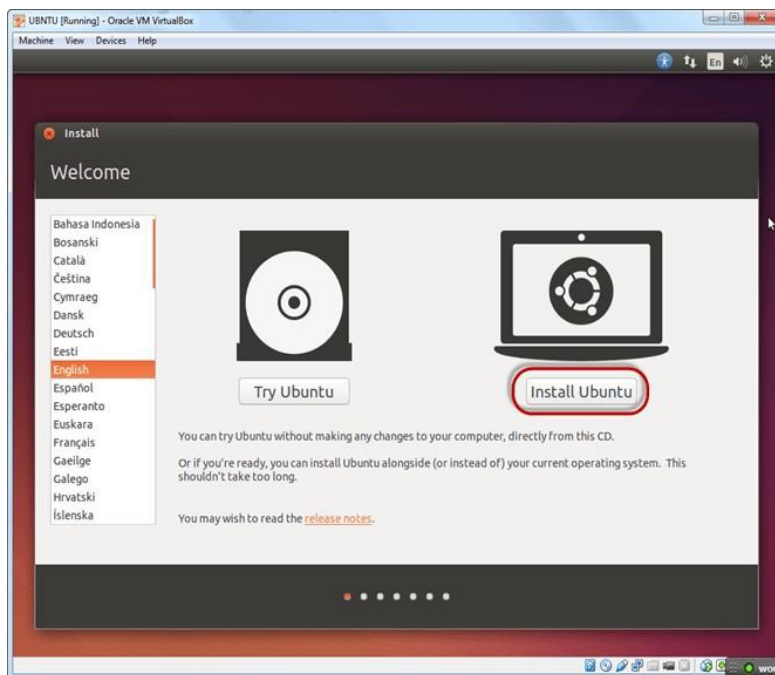
Step 4) Click YES to Install Ubuntu in USB.



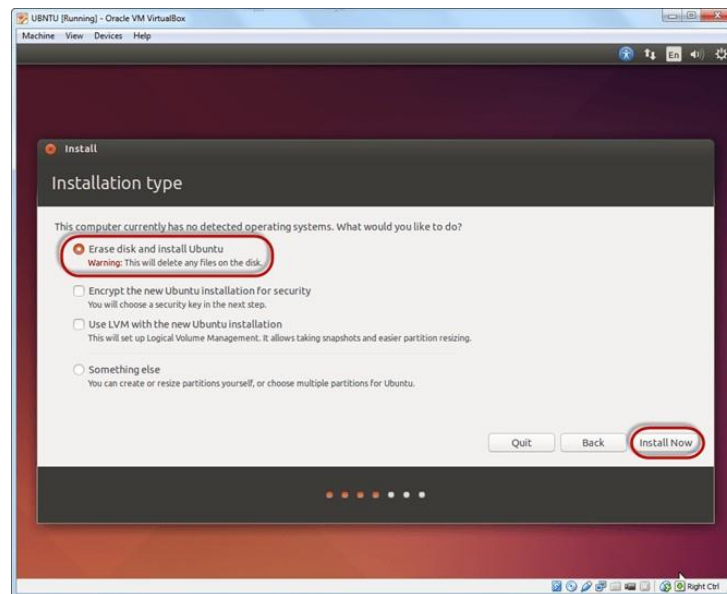
Step 5) After everything has been installed and configured, a small window will appear Congratulations! You now have Ubuntu on a USB stick, bootable and ready to go.



Step-6) You have an option to Run Ubuntu WITHOUT installing. In this tutorial will install Ubuntu



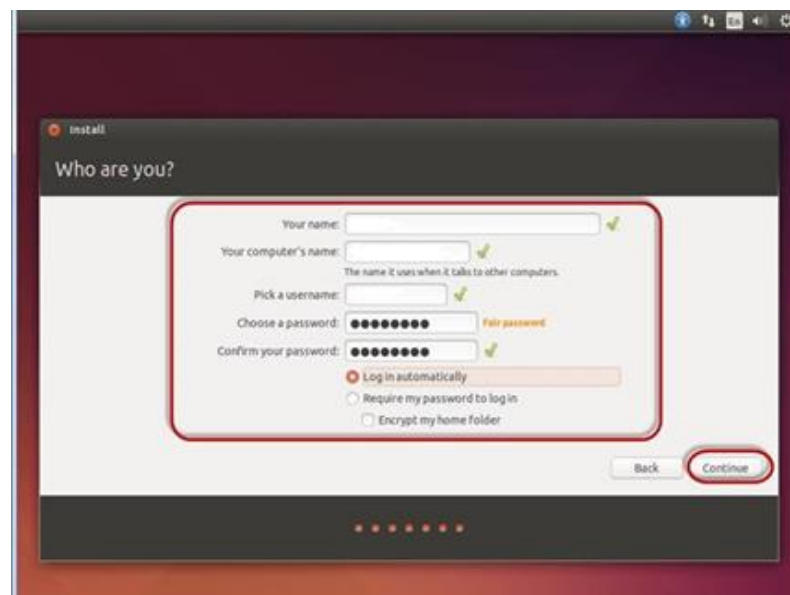
Step-7) Select option to erase the disk and install Ubuntu and click on install now. This option installs Ubuntu into our virtual hard drive which is we made earlier. It will not harm your PC or Windows installation



Step-8) Select your location for setting up time zone, and click on continue

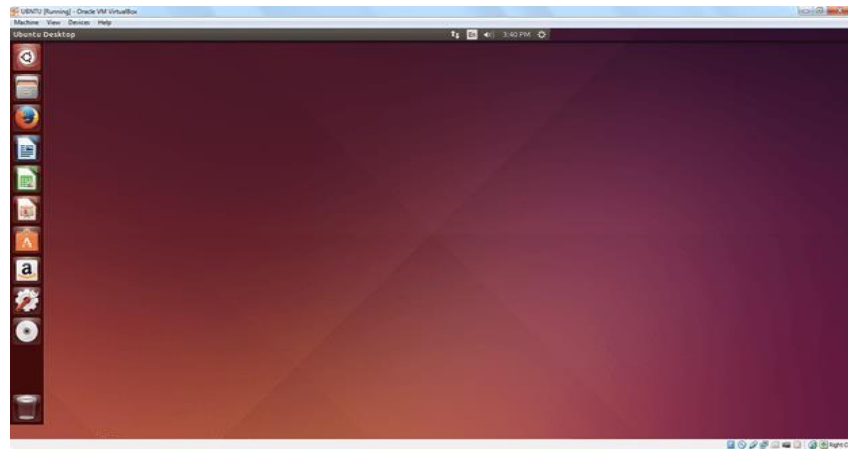
Step-9) Select your keyboard layout, by default English (US) is selected but if you want to change then, you can select in the list. And click on continue

Step-10) Select your username and password for your Ubuntu admin account. This information has been needed for installing any software package into Ubuntu and also for login to your OS. Fill up your details and tick on login automatically to ignore login attempt and click on continue



Step-11) Installation process starts. May take up to 30 minutes. Please wait until installation process completes.

Step-12) After finishing the installation, you will see Ubuntu Desktop.



Conclusion : There are many ways we can use linux operating system. I personally tried two of them – by virtual box and by dual boot with windows 10 operating system. Currently I am using **Linux Mint**. I think linux mint is very user friendly for those who are regular user of windows10.

At starting of using linux I faced many problems. Those difficulties were really time consuming . But I tried in many ways. I lost my all data of my laptop hard disk for all of this experiments. However I learned all the procedure of setting up an OS in a personal computer.

I had to learn the memory management of hard disk like basic disk, dynamic disk, MBR , GPT etc. Then I had to learn the partitioning of hard disk. The primary partition and logical partition. Then I also knew about ext4,ntfs,fat storage formats.

This experiment was great for me as I passed through many technical issues of my personal computer. I have done this more than one time .