

UBUNTU & CENTOS SERVER ADMINISTRATION

This is the keyword-rich, attention-grabbing subtitle

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To my niece Safiyah Nawar and Nujaira Zaynab

UBUNTU & CENTOS SERVER ADMINISTRATION

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INTRODUCTION

subtitle

An operating system is a software that runs on our computer. Handling all the instructions between a user and the Computer hardware .But the operating system is not just one software it also consists of a lot of other smaller program that runs on this operating system to that helps users to do their work. we run this smaller program on top of this operating system to do everything.

Liunix is just another operating system. Its a rock solid operating system. Linux work both as a server and Desktop operating system.

Linux operating system is great for a lot of reason . thease are the following

* **Multi user OS:** Linux is a multi user operating system. That means more than one user can work on a system at the same name

* **Multi tasking OS:** Linux is a multi taking operating system you can run multiple program at once .this allows the operating system to run several process all at once.

* **Multi Platform OS:** Linux can run currently more that 24 types of platform and 64-bit Intel based personal computer .All variants of Apple mac,Sun Spark and ipod ,even the Microsoft xbox.

* **Interoprable OS:** Linux can operate with most network protocols and also most Language it can easily interact with Windows OS,NOVEL,UNIX and other operating system that has a smaller market

* **Scalabel OS:** Linux operating system has support for even Raspberry pi which is a credit card size computer to Very powerful Server. Most of the server of the world is running Linux OS. They have also run in low power computer

* **Portable OS:** Linux is portable operating system. Linux is mostly written in C programming language .C is a language that is specially for writing operating system level software. And it can be ported to run on a new computer.

* **Flexible OS:** Linux operating system can be used to make a router, graphical workstation, home entertainment computer, file server, web server, mail server, cluster, just any computing purpose.

* **Stable:** Linux kernel is very mature. For being stable it is used for most of the server in the world.

* **Efficient:** The design of the Linux enables you to include on only the thing you needed that's why it can run on both raspberry pi to a big server.

* **Free :** Linux is a Free operating system.

GNU PROJECT

GNU Stands for (GNU is NOT UNIX). To make a free clone of the UNIX OS GNU project started 1984.To maintain the free software FSF(Free Software Foundation) is created. It Creates the GNU C compiler ,EMACS Text editor and many other software.

The GNU General Public License (GPL) is a very creative license that used to copyright to protected the freedom of the software user. When a software is licensed under the GPL recipients are bound by the copyright to respect freedom of anyone to use and share the software and also change the source code if necessary.

HISTORY OF LINUX

Linux is a clone of the UNIX based operating system. Unix is created at BEL LABS for AT&T corporation. To make a free clone of the unix Linus Trovalds created a minix .he wrote the kernel which is the heart of the linux .After that a lot of developer helped him to add more feature and functionality .and at that time the GNU Project was making free software for the computer and to make an OS they need a functional kernel which can communicate with the hardware .They took the linux kernel and add the GNU software on top of the kernel and made the GNU/LINUX Operating system.

Linux Trovalds is still considered as the dictator of the Linux kernel. He ultimately determines which feature will be added in the linux kernel and what features are not.

Packaging Linux:Distribution

A complete linux system is called distribution. A linux distribution contains the Linux kernel and the GNU project Tools and any number of software that can make the OS diverse functionality.

There are a lot of distribution on linux .Some of them specifically for servers and some of them are Desktop. Every customized distribution includes software packages for different users.

A single linux distribution often appears in different version .For example CENTOS distribution comes with a full core distribution and a LIVE CD version.

Ubuntu is based on Debian Distribution And Centos is community version of the Commercial RED HAT linux distribution.

Core Linux Distribution

Core linux distribution contains the Linux Kernel and GNU operating system one or more DE(Desktop Environment) and application that is available ready to install and run. The core linux Distribution are the compete linux distribution. These are the popular distribution

- * Red Hat linux
- * Fedora Core
- * Centos Linux
- * SUSE linux
- * Ubuntu Linux
- * Gentoo Linux
- * Debian Linux
- * Slackware Linux
- * Mandriva Linux
- * Turbo Linux
- * Puppy Linux

we use the ***UBUNTU linux*** and the ***CENTOS linux*** to illustrate how the servers work.

PRINCIPLE OF LINUX

- * Everything works as a file , even the system hardware
- * Small work is done by the individual program
- * Any complected work will be divided into smaller part and then process this by different different module.
- * All the configuration will be stored in a text file
- * linux OS use a standard hierarchical file structure in which the files/user files are arranged

* * *

UBUNTU SERVER

Ubuntu is built on the Debian architecture and comprised linux server and Dsktop. Ubuntu release updates every six months Ubuntu packages are based on packages from Debians unstable branch. Ubuntu is currently funded by the Canonical LTD.And GENOME 3 is the default GUI interface for the ubuntu from 17.10 version. We are goinf to use Ubuntu Server 18.04.3 LTS for our work.you can download the latest long term version of ubuntu server in this URL

<https://ubuntu.com/download/server>

CENTOS SERVER

Ubuntu is built on the Debian architecture and comprised linux server and Dsktop. Ubuntu release updates every six months Ubuntu packages are based on packages from Debians unstable branch. Ubuntu is currently funded by the Canonical LTD.And GENOME 3 is the default GUI interface for the ubuntu from 17.10 version. We are goinf to use Ubuntu Server 18.04.3 LTS for our work.you can download the latest long term varson of ubuntu server in this URL

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VMWARE INSTALLATION

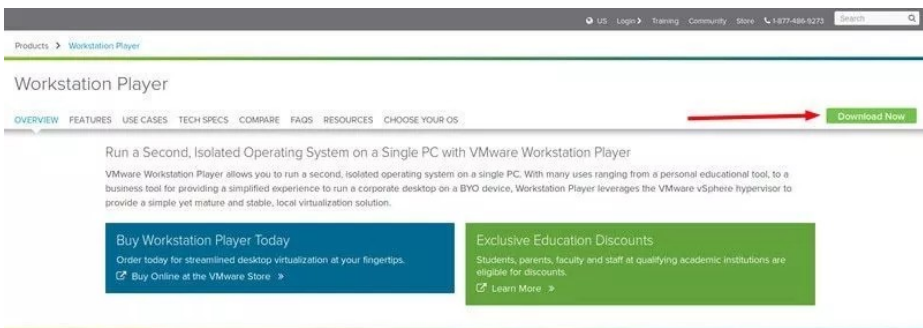
Step 1:

install the required build packages

=> **sudo apt install build-essential**

Step 2:

Download VMware workstation player from the website.



Step 3:

go to the installed directory make the file executable

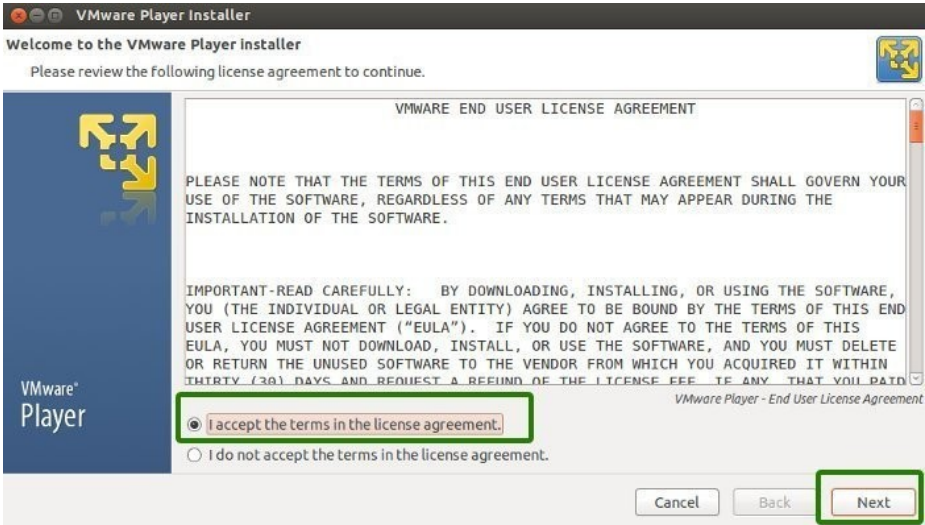
=> **chmod 777 Vmware-Player***

[we will talk about the chmod 777 later for now just use it]

Step 4:

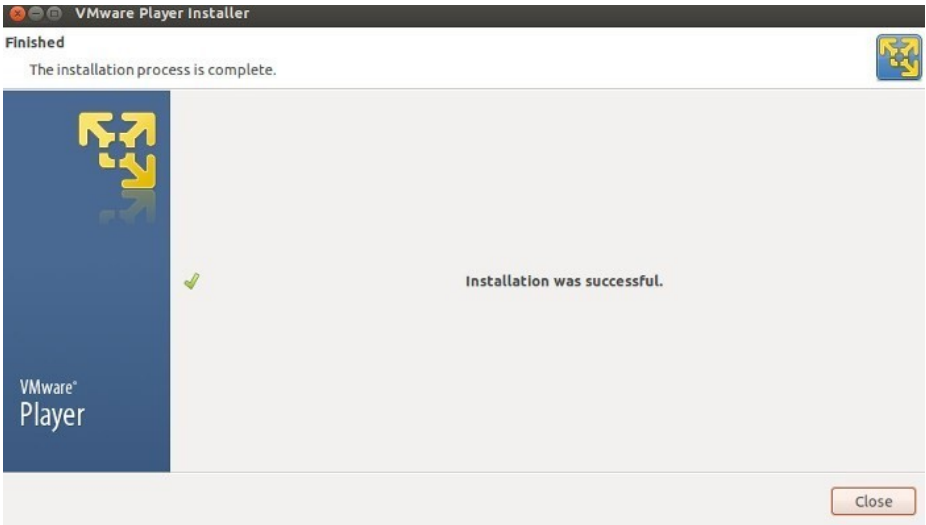
execute the program with **sudo**

=>sudo ./Vmware-Player*



[no license key is required .If you want to install vmware workstation instead of vmware player you need to have the license key]

after a successful installation screen will show to you



* * *

UBUNTU SERVER INSTALLATION

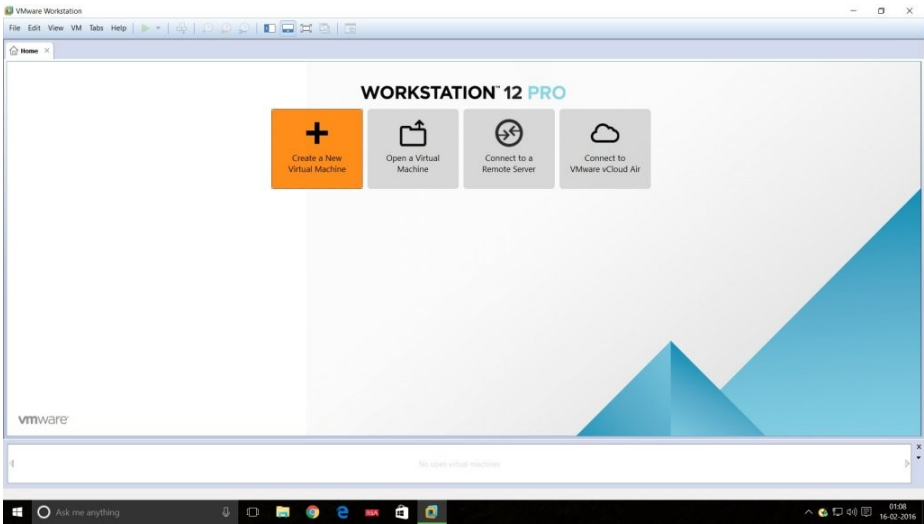
Ubuntu

REQUIREMENTS:

- 1)HOST PC WITH AT LEAST 4GB OF RAM
- 2)VMWARE WORKSTATION/VIRTUALBOX
- 3)UBUNTU SERVER ISO IMAGE

Step 1:

Lunch VMware Workstation New Virtual Machine Wizard



Step 2:

Select the installation media or source and choose the disk size.

Disk Size

The virtual machine's hard disk is stored as one or more files on the host computer's physical disk. These file(s) start small and become larger as you add applications, files, and data to your virtual machine.

Maximum disk size (in GB): – +

Recommended size for Ubuntu 64-bit: 20 GB

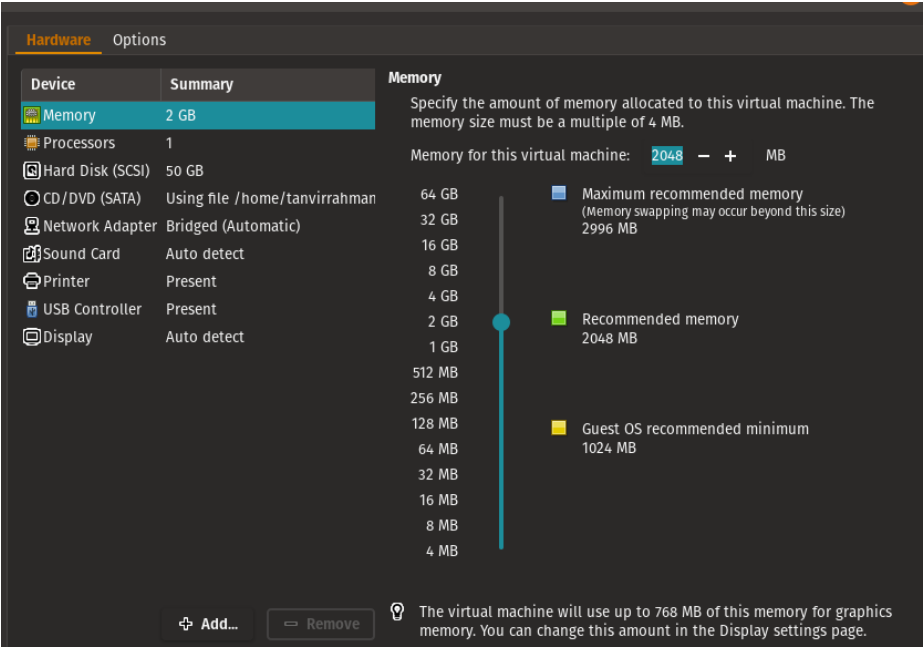
☐ Store virtual disk as a single file

☒ Split virtual disk into multiple files

Splitting the disk makes it easier to move the virtual machine to another computer but may reduce performance with very large disks.

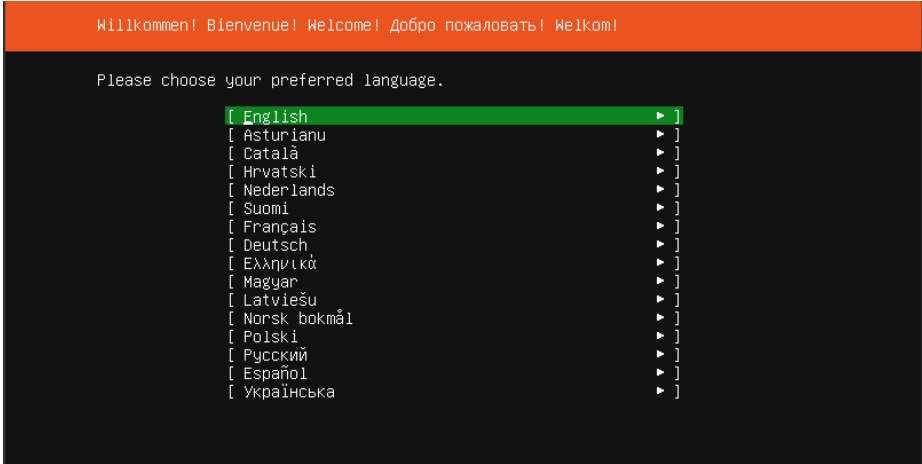
Step 3:

final configuration of the Vmware will be like this

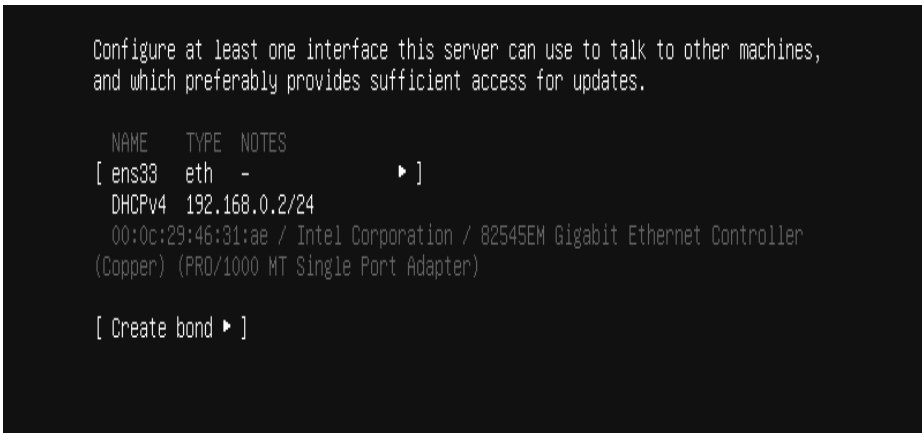


Step 4:

start the installation ,first set the language

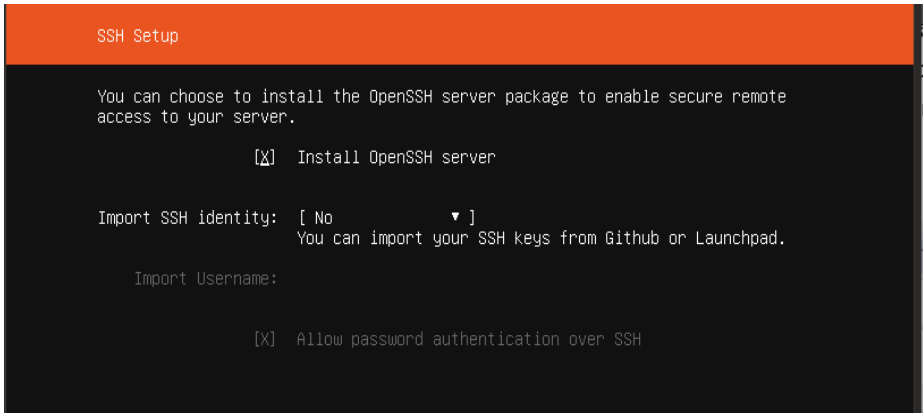
**Step 5:**

select DHCP for network for now .we change the ip address of the server later



Step 5:

Select “install openSSH server” so we can connect to the computer with our hosts



Step 6:

There are three types of partition

* **Guided** : use entire disk : it use the entire disk with guided partition system

* **Manual** : In manual partition user have to allocate the space manually.

For minimal settings three partition is a mandatory

1) /boot

2) /swap

3) /root

* **Guided** : on LVM :this option allow user to set a LVM based partition

Select the entire disk for installation .we select the Entire disk guided partition will talk about the other boot system later.



Step 7:

login to the system with your credential .

SUMMARY:

we learn how to set up a ubuntu server on Vmware Virtual machine with a dhcp network. Using guided partition.

* * *

CENTOS SERVER INSTALLATION

Centos

REQUIREMENTS:

- 1)HOST PC WITH AT LEAST 4GB OF RAM
- 2)VMWAREWORKSTATION/VIRTUALBOX
- 3)CENTOS7 SERVER ISO IMAGE

Step 1:

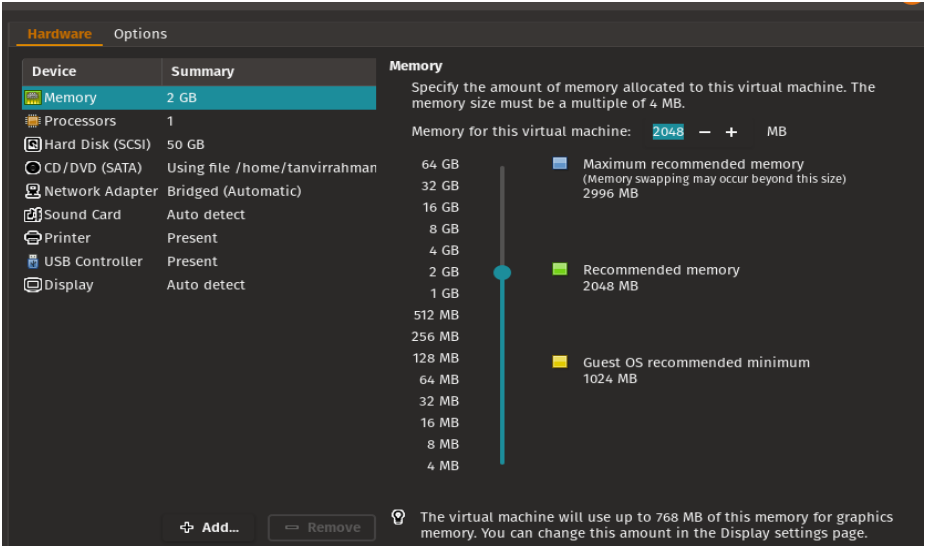
Lunch VMware Workstation New Virtual Machine Wizard

Step 2:

Select the installation media or source and choose the disk size.

Step 3:

final configuration of the VMware will be like this



Step 4:
start the installation , First set the language




Step 5:

From the **software selection** select server with a GUI

SOFTWARE SELECTION

Done

CENTOS 7 INSTALLATION

 us

Help! (F1)

Base Environment

☐ Minimal Install
Basic functionality.

☐ Compute Node
Installation for performing computation and processing.

☐ Infrastructure Server
Server for operating network infrastructure services.

☐ File and Print Server
File, print, and storage server for enterprises.

☐ Basic Web Server
Server for serving static and dynamic internet content.

☐ Virtualization Host
Minimal virtualization host.

☒ Server with GUI
Server for operating network infrastructure services, with a GUI.

☐ GNOME Desktop
GNOME is a highly intuitive and user friendly desktop environment.

☐ KDE Plasma Workspaces
The KDE Plasma Workspaces, a highly-configurable graphical user interface which includes a panel, desktop, system icons and desktop widgets, and many powerful KDE applications.

Add-Ons for Selected Environment

☐ Backup Server
Software to centralize your infrastructure's backups.

☐ DNS Name Server
This package group allows you to run a DNS name server (BIND) on the system.

☐ E-mail Server
Allows the system to act as a SMTP and/or IMAP e-mail server.

☐ FTP Server
Allows the system to act as an FTP server.

☐ File and Storage Server
CIFS, SMB, NFS, iSCSI, iSER, and iSNS network storage server.

☐ Hardware Monitoring Utilities
A set of tools to monitor server hardware.

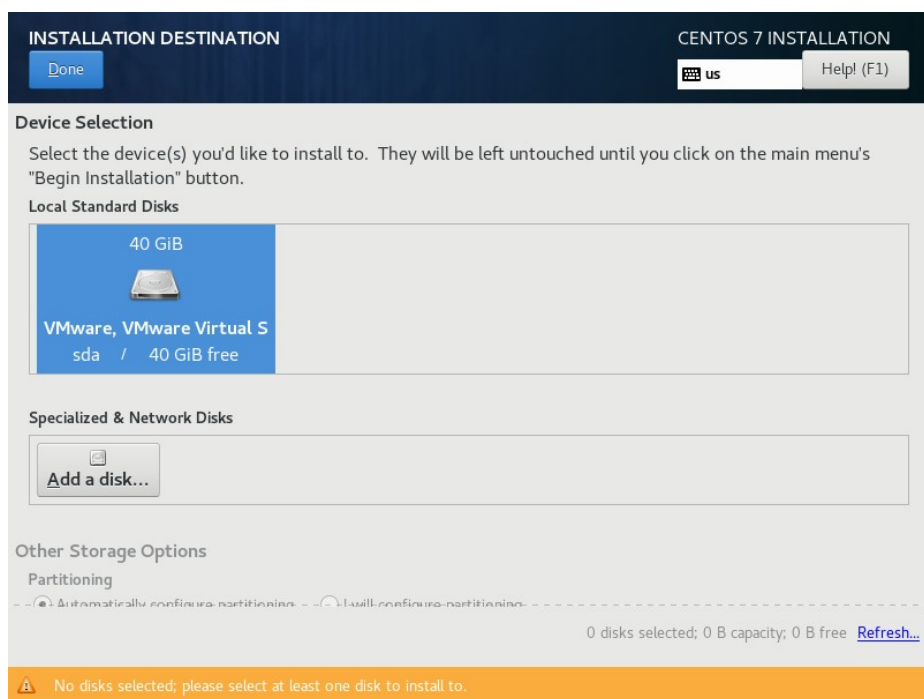
☐ High Availability
Infrastructure for highly available services and/or shared storage.

☐ Identity Management Server
Centralized management of users, servers and authentication policies.

☐ Infiniband Support
Software designed for supporting clustering and grid

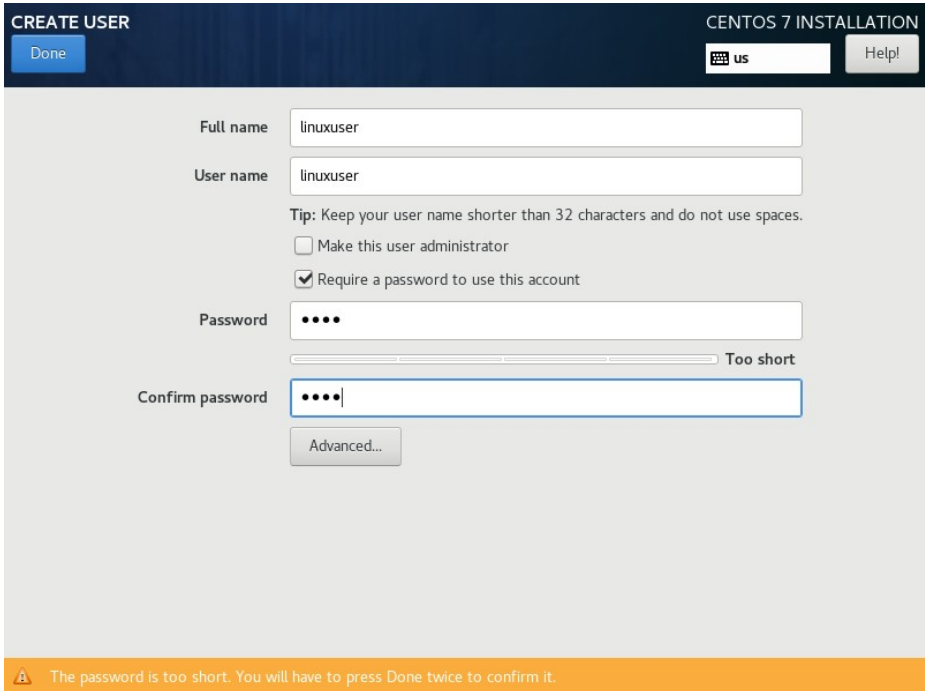
Step 6:

Select the volume for installing .in this installation we go for the entire disk guided partition



Step 7 :

Enter the root password and confirm it. and create a user and set password for the user



The image shows the 'CREATE USER' screen in the CentOS 7 installation environment. The header bar is dark blue with 'CREATE USER' on the left, 'CENTOS 7 INSTALLATION' on the right, and a 'Done' button. Below the header, there are input fields for 'Full name' (linuxuser) and 'User name' (linuxuser). A tip message states: 'Tip: Keep your user name shorter than 32 characters and do not use spaces.' There are two checkboxes: 'Make this user administrator' (unchecked) and 'Require a password to use this account' (checked). The 'Password' field contains four dots, and a progress bar below it indicates 'Too short'. The 'Confirm password' field also contains four dots. An 'Advanced...' button is located below the confirm password field. At the bottom, an orange banner displays a warning icon and the message: 'The password is too short. You will have to press Done twice to confirm it.'

Step 7 :

wait for the installation to finished. After that reboot the system

Step 8 :

login with root credentials

SUMMARY:

we learn how to set up a Centos server on Vmware Virtual machine with Using guided partition.

COMMAND LINE IN LINUX

Every workstation version of linux has a Beautiful GUI(Graphical User Interface) but most of the server Ubuntu or CENTOS run on command line mode.you can add graphical user interface to that but without the command line you cant manage the server properly. Once you learn Command line you will find that it is more powerful and flexible for user to manage your server than a graphical mode.

WORKING AS ROOT

By default every linux OS creates a user root.Many operating system like CENTOS ask for a root password .But Ubuntu server dont do what .There is a very good reason behind that.in Linux OS root has a limitless power.root can do anything ,change anything even can delete anything from the server.so it is very important to be careful when you work as

root .Thats why in ubuntu server every time you do anything that need superuser privileges you use the command '*sudo*'

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