Linux is an open-source openating System inspired by UNIX linux is just a kernel and Linux distribution makes it a usable openating systems, preferred as for Computers, Servers, maintennes, another devices and embedded devices.

Father of Linux operating system: Linus Torvalds.

Why we should use Linux?

The main benefits are it offers a free operating system, you do not have to spend hundreds of dollars to get the Os like windows.

Being open-source it unified the source code, the linux operating system now offers millions of programs applications to choose from most of them are free.

The once you have Houx installed you no longer ofeeded an anti-vious because linux is highly source System more so there is a global development community Constantly booking at ways to enhance its security with each upgrade the OS becomes more secure and robust.

Stability and reliability many and some some environments due to its

mega Companies like Amazon, Facebook and google used linux

A linux based server could own mon-stop without a rebook for years on end.

## How different is Linux when Composed to UNIX?

UNIX is a proposety operating System from Bell Laboratories

The open Curoup holds the UNIX trademark & manage the UNIX trademark

licensing program.

Companies have their own licensed UNIX: IBM (AIX)

HP (HP-UX)

Apple (OSX)

Operating System for the masses

Linux is some of unix, weither from Schaleh by linus Torvalds &

N's team.

suppose foot a

## What is Linux kennel?

The Linux kernel is a low-level system software whose main role is to mange handware resources for the user.

the user Commands into equivalent language understood by the Computer hardware.

### what is shell?

The shell is a program that takes Commands from keyboard and passes them to the operating system for performing.

or, The shell is the Linux Command line interpretor, it provides an interface between the user and the kennel and executes programs called Commands

# What is BASH? and belloted would sweet down some

BASH is short for Bourne Again stell. It's a replacement to the original shell

BASH is the free and enhanced version of the Bourne shell distributed with Linux and and operating systems.

# what are the advantage of linux being open-source?

Being open-Source, linux gives usens access to the Source code open Source allows usens to distribute the software, including source the code freely to anyone interested.

It allows users to add teatures, debug and correct errors in the original Source code.

when the source code has been improved, it can be treely redistributed (open-source collaboration).

## Explain the functionally of root user.

administrator.

in the system. Whenate control and access to all liles/desectories

Another advantage: restricted programs can be executed from the terminal by using the root account.

CLI Stands for Command Line Interface. This interface allows user to type declarative Commands to instruct the Computer to perform oper attons.

LINUX CLI is called Terminal and Commands will be interpreted by the shell.

Advantage; Multiple Stops can be executed by specifying a single Command.

## What sis QUE? and Junda Horder of old and agoldin of - + amone

GUI stands for anaphical users interface and makes the System attractive.

users who find it difficult to remember Commands, Can use the cut. mant tundo prottographic balloto

Gul allows the users to manigate / access files by dicking on ionages and icons. What is swap space? Indesib at book - I famous bransmas I make

Swap space is a certain amount of space used by Linux to temporarily hold active programs, This happens when RAM does not have enough memory to hold all programs that are being executed.

what are the kind of penonissions available in linux

There are basically 8 levels of file / directory permission in Linux.

Read: users only read the siles on list the directory contents

write: Users can only write information to the file and creat files/sub-directories in a directory.

Execute: users can run the lite on bookup a specific. He within a directory. Feb -- used to copy aller for goods of thes or disectory

[ food ] [ sound ] von : +1

and a single sile on a dephosion lagar, where