

Deliverable 1

Introduction/project description

- how o install a web the Apache web sever on Ubuntu 20.04 Apache web server is the most extensively used open sources web server supported on the majority of the OS including Linux, windows , etc. It is highly customizable and can be integrated with other module . Installing and configuring the Apache for basic setup is quite easy .we will need to update the system repository index to install the most recent version.

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## Project hardware and software requirements
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## What is Linux?
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Linux is a Unix like Operating System popular in academic and business environments
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Linux consists of a Kernel Libraries ,and utilities that make up the entire operating system
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is also available in many distributions (any operating system that rand the linux kernel)
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popular Linux distributions include Arch,centos ,Debian ,fedora, openSUSE, Red Hat , Slackware , Ubuntu and many more.
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## Short history of linux
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Not to be confused with Linux kernel version history.
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Linux began in 1991 as a personal project by Finnish student Linus Torvalds: to create a new free operating system kernel. The resulting Linux kernel has been marked by constant growth throughout its history. Since the initial release of its source code in 1991, it has grown from a small number of C files under a license prohibiting commercial distribution to the 4.15 version in 2018 with more than 23.3 million lines of source code, not counting comments.
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! [q4.1] (q4.1.png)
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! [q4.2] (q4.2.png)
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! [q4.3] (q4.3.png)
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## Linux distribution
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! [q5.1] (q5.1.png)
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! [q5.2] (q5.2.png)
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! [q5.3] (q5.3.png)
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! [q5.4] (q5.4.png)
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! [q5.5] (q5.5.png)
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** Slackware **
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Slackware aims for design stability and simplicity and to be the most "Unix-like" Linux distribution. It makes as few modifications as possible to software package.
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** Debian **
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is an all volunteer organization dedicated to developing free software and promoting the ideals of the free
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software Community.** Fedora **
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contains software distributed under various free and open-source licenses and aims to be on the leading edge of open source .

> Debian based Linux Distributions

> Ubuntu:

>is a Linux distribution freely available with both community and professional support.

> Kali Linux:

>is a Debian-derived Linux distribution designed for digital forensics and penetration testing. It is maintained.

>The standard Debian and its popular off shoot Ubuntu are great, all-around choices for a Linux system, but if you have more specialized needs, you might want a Debian alternative

* red Hat Enterprise Linux:

> Fedora:

>contains software distributed under various free and open-source licenses and aims to be on the leading edge of open source .

Open Source VS Closed Source

Open source software refers to the computer software which source is open means the general public can access and use. Closed source software refers to the computer software which source code is closed means public is not given access to the source code

advantage of open source

Open Source: the software may be distributed for a free or fee. the source code is distributed with the software.

advantage of close source

Close Source: the software is not distributed with source code. the user is restricted from modifying the code.

- The Free software movement

the software is distributed with the source code . the software can be free of charge or obtained by a fee.

Freedom 0: use the software for any purpose Freedom 1: examine the source code and modify it as you see fit Freedom 2: redistribute the Software Freedom 3: redistribute your modified software

Sources

class presentation lab 1 <https://www.makeuseof.com/best-debian-based-linux-distros/>

<https://www.google.com/search?channel=fs&client=ubuntu&q=open+source+vs+closed+source> course
YouTube channel