

# Deliverable 1

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## Concepts i don't understand

- **UFW**: "Uncomplicated firewall", is used for simplifying firewall management for users who aren't experts in firewall concepts.
- **SSL**: "Secure Socket Layer" a communication protocol that allows devices and applications to securely connect to each other over a network.
- **Systemd**: a software suit that unifies system behavior and configurations across Linux distributions.
- **Init System**: The first system that starts when the system boots up.
- **Web Root**: The directory of a webserver where all the files for a website are stored.

## What is a web server? Hardware and software side?

- Website on the hardware side is a computer that stores webserver software and a websites component files
  - Website on the software side includes several parts that control how a web user can access it , One of them being a HTTP server software , which understands urls and can be accessed through the domain names of the websites it stores and delivers the content to these hosted websites to the end of the users device.

## What are some different web server applications?

- **Apache**:



**Apache** is an open source webserver application that serves websites and applications over the internet

- **NGINX:**

# NGINX

**NGINX** is also an open source web server application but focuses more on dynamic content when configured with other software



- **LightTPD:** **LightTPD** is a lightweight open source software application that focuses on optimization of high traffic servers and websites

## What is virtualization?

- A technology that allows you to create and run multiple virtual instances.

## What is virtualbox?

- An open-source virtualization software that allows you to run multiple operating systems on a single physical machine.

## What is a virtual machine?

- A software-based emulation of a physical computer.

## What is Ubuntu Server?

- Ubuntu server is a specific addition that differs a little bit from Ubuntu desktop, in order to facilitate installation on servers.

## What is a firewall?

- A security system designed to monitor and control incoming and outgoing network traffic based on predetermined security rules.

## What is SSH?

- A network protocol that gives users particularly systems administrators. A secure way to access a computer over an unsecured network.