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# Deliverable 1

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## Concepts I don't understand:

**Apache:** An open-source web server software that delivers web content to users over the internet.

**Package Index:** A database of available software packages and their versions for a specific operating system.

**UFW (Uncomplicated Firewall):** A user-friendly interface for managing firewall rules in Ubuntu.

**Port 80:** The default network port for HTTP traffic.

**Port 443:** The default network port for HTTPS traffic.

**Document Root:** The directory on a web server where the files for a particular website are stored.

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

**Hardware:** A computer that stores and sends websites to people when they visit them. **Software:** The program that takes requests (clicking on a website) and delivers the content (text, images, videos).

## What are some different web server applications?

**Apache:** Popular and very flexible. **Nginx:** Fast and great for big websites. **Lighttpd:** Small and lightweight.

**Caddy:** Simple to use, with built-in HTTPS. **H2O:** Focuses on speed and modern features

## What is virtualization?

a technology that allows you to create virtual instances of hardware or software, such as servers, operating systems, or networks

## What is virtualbox?

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

## What is a virtual machine?

is a software-based simulation of a physical computer. It runs an operating system and applications just like a physical computer.

## What is Ubuntu Server?

a version of the Ubuntu operating system designed specifically for server environments. It is lightweight, secure, and optimized for hosting applications, and websites.

## What is a firewall?

a network security tool that monitors and controls incoming and outgoing traffic based on predetermined security rules. It acts as a barrier between a trusted internal network and untrusted external networks.

## What is SSH?

a protocol that allows secure remote access to computers over an unsecured network. It encrypts data exchanged between the client and server.