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# Deliverable 1

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Tutorial can be found [here] (<https://www.digitalocean.com/community/tutorials/how-to-install-the-apache-web-server-on-ubuntu-22-04>)

## Concepts I don't understand:

- Apache: free and open source software that allows users to deploy websites on the internet.
- UFW: Uncomplicated Firewall is a program for managing a netfilter firewall thats easy to use.
- Virtual hosts: concept that allows more than one website on one system or web server.

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

- Web server can refer to software or hardware, or both. On the hardware side, a web server is a computer that stores web server software. It also sores a websites component files such as CSS stylesheets and HTML documents. On the software side, web server includes several parts that control how web users access hosted files.

## What are some different web server applications?

- Depending on preferences there are different types of web servers available. A popular one is Apache HTTP Web Server. Others include Node.js, LiteSpeed, Ligtthtpd, and Sun Java System Web Server. Web servers can be used for numerous reasons such as sending and receiving emails, downloading request for FTP files and building/publishing webpages.

## What is virtualization?

- Virtualization is the process of running multiple operating systems on a computer system simultaneously. Applications running on the virtualized machine are on their own dedicated virtualized system. It allows for isolation since you can run programs inside the virtual machines safely from the processes taking place in another virtual machine on the same host.

## What is virtualbox?

- Virtualbox is a x86 and AMD64 virtualization product for enterprise or home use. It has man features, high performance products, and the only professional solution that is open source software under the GNU license.

## What is a virtual machine?

- A virtual machine is a compute resource that uses software instead of a physical compute to rn programs and deploy apps. You can run one or more virtual guest machines on a physical host

machine.

## What is Ubuntu Server?

- Ubuntu Server is an open source platform. It works with almost any hardware or virtualization software. It can do many things such as serve websites, file share, and containers. Companies such as Microsoft uses Ubuntu server images in it Azure platform.

## What is a firewall?

- A firewall is a network security device that monitors incoming and outgoing network traffic and permits or blocks data packets based on your security preferences. It establishes a barrier between your internal network and incoming traffic from external sources like the internet in order to block malicious traffic like viruses and hackers.

## What is SSH?

- Secure Shell is a network communication protocol that enables two computers to communicate and share data. It encrypts communication between two computers so its useful specially on unsecure networks. Http is the protocol to transfer hypertext such as webpages.