

# Deliverable 1

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Tutorial can be found [here](#)

## Concepts I don't understand

- **Non-root user**- users that can only run certain commands based on roles and permissions assigned.
- **Init system**- initializing the system in the required way.

## What is a web server?

- On the hardware side, a web server is a computer that stores web server software and a website's component files. Some examples include HTML documents, images, and JavaScript files. A web server connects to the Internet and supports physical data interchange with other devices connected to the web.
- On the software side, a web server includes several parts that control how web users access hosted files. At a minimum, this is an HTTP server. An HTTP server is software that understands URLs (web addresses) and HTTP (the protocol your browser uses to view webpages).

## What are some different web server applications?

- **Apache**- an open-source project that uses HTTP protocol and operates across various OSs, including Windows and Linux.
- **Tomcat**- uses multiple Java specifications in an open-source environment that's optimized for speed and performance.
- **NGINX**- designed to handle multiple connections simultaneously therefore it's ideal for high-traffic sites and demanding environments.
- **Microsoft IIS**- includes native support for dynamic ASP.NET applications, spanning CSS, JavaScript, and HTML. It's also relatively user-friendly for beginner and intermediate users. It is not compatible with Linux.

## What is virtualization?

- Virtualization is defined as creating virtual versions of something.
- One of the corner stop technologies of cloud computing.
- Used to let multiple operating system run on one physical at the same time.

## What is virtualbox?

- A powerful x86 and AMD64/Intel64 virtualization product for enterprise as well as home use. VirtualBox is extremely feature rich while providing high performance.

## What is a virtual machine?

- A **Virtual Machine (VM)** is a compute resource that uses software instead of a physical computer to run programs and deploy apps. A VM lets you run different operating systems on different virtual machines at the same time.

## What is Ubuntu Server?

Ubuntu Server is a part of the larger set of Ubuntu products and operating system developed by Canonical Ltd. 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 firewall is a network security device that monitors traffic to or from your network. It allows or blocks traffic based on a defined set of security rules.

## What is SSH?

SSH, also known as Secure Shell or Secure Socket Shell, is a network protocol that gives users, particularly system administrators, a secure way to access a computer over an unsecured network.