Deliverable 1

Concepts I don't understand

- dynamically loadable modules
- UFW firewall

What is a web server? Hardware and software side

- A web server on the software side is a computer system capable of delivering web content to end users over the internet via a web browser. It contains an Operating System, web server software, database software, application software, security software, configuration files, and finally logging and monitoring tools. On the hardware side it is a computer that stores the web server software and a website's component files, the processor which handles computation and processing, the RAM which stores data, storage for storing data, content, etc, network interface and the redundancy and back up systems.

What are some different web server applications?

- Some different web server applications are:

Apache

- Powers the majority of websites in the world.
- Available on all platforms- Linux, Windows, MacOS, and more.
- Tons of functionality offered through a large collection of modules.

Nginx

- Nginx was released as a project in 2002 by a Russian engineer who got fed up with then-present solutions' inability to beat the ck10 problem (basically, handling thousands of concurrent connections).
- Best-in-the-class static file handling, load balancing, and reverse proxy capabilities.
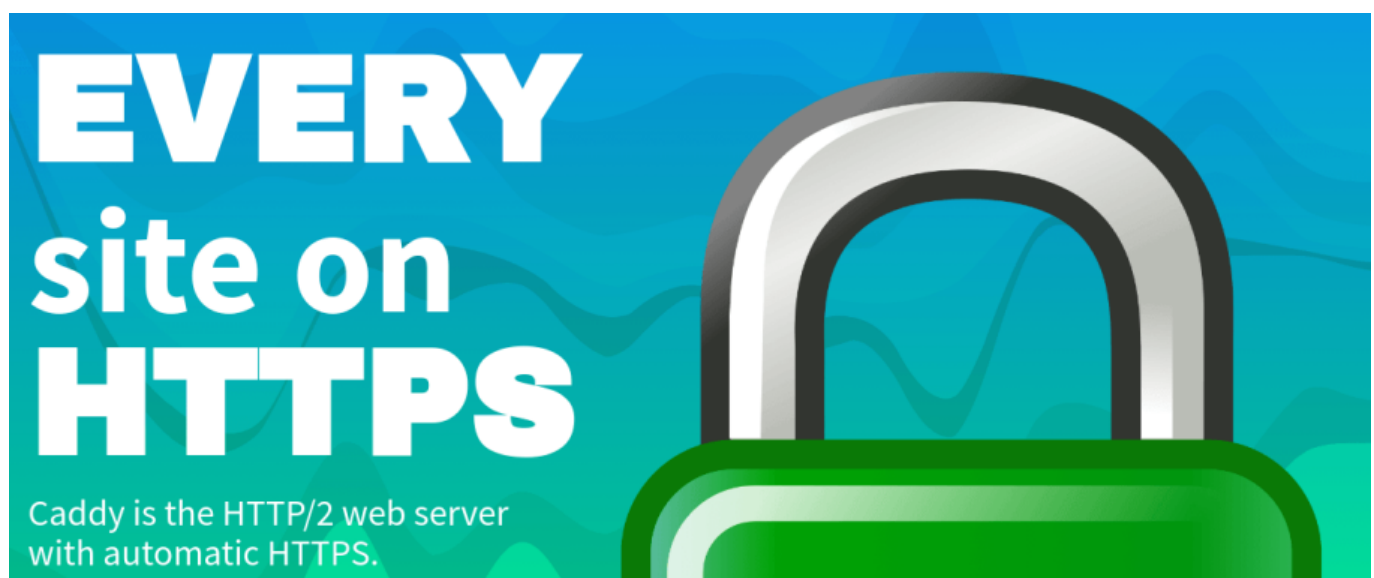
LiteSpeed Web Server

- OpenLiteSpeed is the open source flavor of enterprise web server offered by LiteSpeed Technologies.
- Compatible with Apache's mod_rewrite, which means if you have a ton of existing Apache files, migrating will be minimal pain.

Caddy

- One of the hottest new framework making splashes in the open-source community recent is Caddy.
- Think of Caddy as an Nginx-like web server (similar syntax and all) but everything is simplified to a pleasant extreme.
- HTTPS enabled by default. Yes, you don't need to do anything for installing or renewing SSL certificates.

What is virtualization?

- Virtualization is a technology that allows multiple virtual environments to run on a physical computer or a server.

What is virtualbox?

- Virtualbox is an open-source software that lets its users create and manage virtual machines on their personal computers.

What is a virtual machine?

- A virtual machine is a software-based emulation of a physical computer that runs on a host system like Virtualbox.

What is Ubuntu Server?

- Ubuntu server is a variant of Ubuntu operating system that is designed for use as a server.

What is a firewall?

- A firewall is a network security device or software that acts as a barrier or filter between a trusted network and an untrusted network. Firewalls are a fundamental component of network security and serve several important functions.

What is SSH?

- SSH stands for Secure Shell which is a cryptographic network protocol and a secure method for remotely accessing and managing devises over a potentially unsecured network.