Deliverable 1

Concepts I dont understand:

- Apache HTTP Server:
  - Apache HTTP server is a free open source platform web server software.
- TLS/SSL encrypted traffic
  - SSl stands for Secure Sockets Layer:
    - It makes sure data transferred between users and sites, or between two systems remain impossible to read, uses encryption algorithm to scramble data in transit
  - TLS, Transport Layer Security
    - Updated more secure version of SSL
- Why are specific ports are opened for certain things?
  - Each port is associated with a specific process or service, which allow for different kinds of traffic such as surfing the web or sending an email
- Domain:
  - Basically the name of the website
- Virtual Hosts
  - Running more than one website on one machine

What is a web server? Hardware and software side

- Hardware side:
  - A web server is a computer that stores web server software and a websites component files, it can connect ot the internet and support physical data interchange with other devices connected to the web.
- Software side
  - A web server includes several parts that control how web users access hosted files.

What are some different web server applications?

- Apache HTTP Server
- Internet Information Services
- Lighttpd
- Sun Java System Web Server
- Jigsaw Server

What is virtualization?

- A creation of a virtual computer inside a physical computer called VM or Virtual-Machine

What is virtualbox?

- Virtual Box is a software that is provided by Oracle that allows you to install virtual machines onto your system.

What is a virtual machine?

- A virtual machine is a virtual computer thats hosted onto a server or computer, that can be used as a controlled environment to test out software or for daily use.

What is Ubuntu Server

- It is a variant of the standard Ubuntu, which is capable of running a simple file server

What is a firewall?

- A firewall is a network security device that monitors traffic to or from your network and allows for certain traffic to be let through based on your security rules.

What is SSH?

- SSH stands for Secure Shell Protocol, its a protocol for operating network services over an unsecured network.

Deliverable 2

Part 1

General

System

Base Memory: 1024 MB
Boot Order: Floppy, Optical, Hard Disk
Acceleration: VT-x/AMD-V, Nested Paging, KVM Paravirtualization

Display

Video Memory: 16 MB
Graphics Controller: VMSVGA
Remote Desktop Server: Disabled
Recording: Disabled

Storage

Controller: IDE
  IDE Secondary Device 0:   [Optical Drive] Empty
Controller: SATA
  SATA Port 0:   Ubuntu_Server_22_04.vdi (Normal, 10.00 GB)

Audio

Host Driver: Windows DirectSound
Controller: ICH AC97

Network

Adapter 1:   Intel PRO/1000 MT Desktop (Bridged Adapter, Realtek 8822CE Wireless LAN 802.11ac PCI-E NIC)

USB

USB Controller: OHCI, EHCI
Device Filters: 0 (0 active)

Shared folders

None

Description

Hostname: webserver

- In part 1 I set up the Ubuntu Server, by properly updating the settings to fit my needs

Part 2

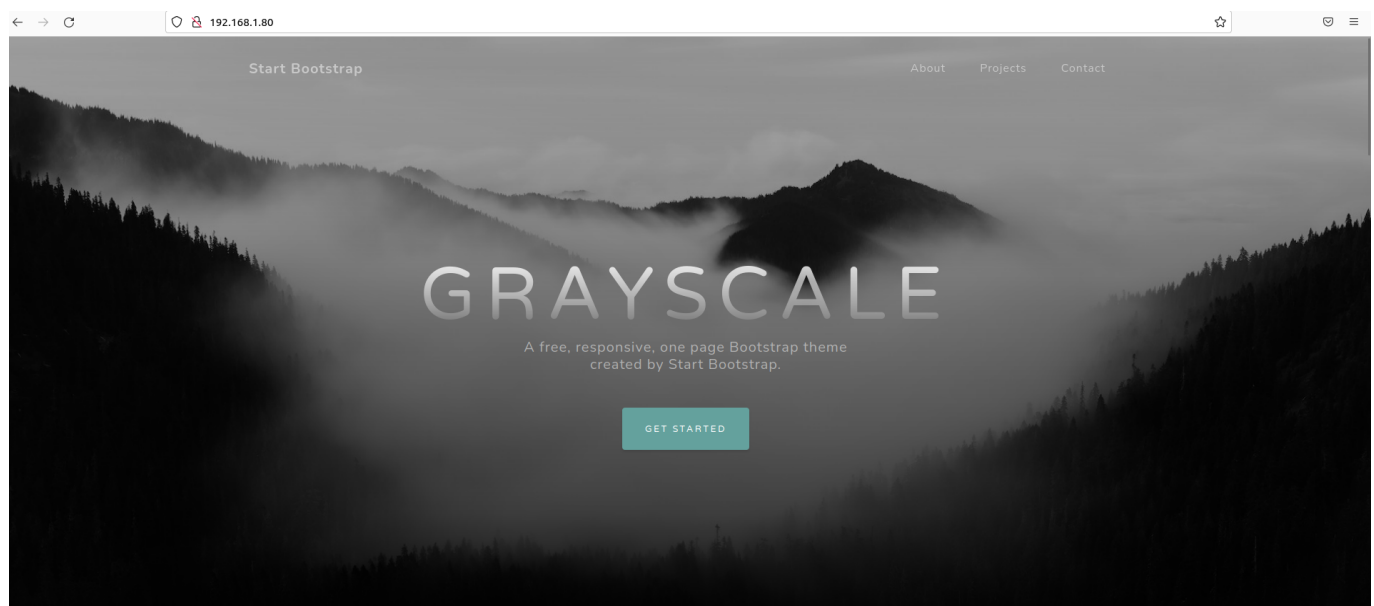In Deliverable 2 Part 2 I installed apache, and configered the firewal

Part 3

- In part 3 I set up SSH, so I would be able to use my server through my Ubuntu VM.

Part 4

- We began setting up the website, using nano and establishing our domain name

Part 5

- I had finished setting up my website, I managed to properly run my server, and control it using my Ubuntu VM.