Deliverable 1 Submission

Basic Terminology

What is a web server?

- can refer to hardware or software, or both of them working together.
- On the hardware side, a web server is a computer that stores web server software and a website's component files
- On the software side, a web server includes several parts that control how web users access hosted files.

What is Apache?

- The Apache HTTP server is the most widely-used web server in the world. It provides many powerful features including dynamically loadable modules, robust media support, and extensive integration with other popular software.

What are some example web server applications?

Application Name	license	Project's Website
Nginx	BSD-2-Clause License	example 1
Apache	Apache License 2.0	example 2
IIS	Microsoft license	example 3

Nginx

Nginx is a web server that can also be used as a reverse proxy, load balancer, mail proxy and HTTP cache.

Apache

The Apache HTTP Server is a free and open-source cross-platform web server software, released under the terms of Apache License 2.0.

IIS

Internet Information Services is an extensible web server created by Microsoft for use with the Windows NT family. IIS supports HTTP, HTTP/2, HTTPS, FTP, FTPS, SMTP and NNTP.

What is virtualization?

Virtualization is a process that allows a computer to share its hardware resources with multiple digitally seperated environments.
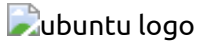
What is virtualbox?

logo virtualbox

VirtualBox is a powerful Cross-platform Virtualization Software for x86-based systems.

What is a virtual machine?

virtual machine is a computer system created using software on one physical computer in order to emulate the functionality of another separate physical computer.

What is Ubuntu Server?

ubuntu logo

- 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.

Other Relevant Concepts

- **Protocol** A protocol is a system of rules that define how data is exchanged within or between computers. Communications between devices require that the devices agree on the format of the data that is being exchanged. The set of rules that defines a format is called a protocol.

- **TCP** TCP (Transmission Control Protocol) is an important network protocol that lets two hosts connect and exchange data streams. TCP guarantees the delivery of data and packets in the same order as they were sent. Vint Cerf and Bob Kahn, who were DARPA scientists at the time, designed TCP in the 1970s.

- **Virtual hosts** A packet, or network packet, is a formatted chunk of data sent over a network. The main components of a network packet are the user data and control information.

- **Log file** an event that took place at a certain time and might have metadata that contextualizes it