

# Deliverable 1 Submission

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## Basic Terminology

What is a web server?

A web server is software that serves web pages and other content over the internet. It receives requests from web clients and delivers web content in response.

What is Apache?

Apache is an open-source web server software developed by the Apache Software Foundation. It is one of the most widely used web server applications on the internet.

What are some example web server applications?

Application Name	license	Project's Website
Apache	Apache License 2.0	<a href="#">example 1</a>
Nginx	2-clause BSD License	<a href="#">example 2</a>
Microsoft IIS	Proprietary	<a href="#">example 3</a>

### Example 1



### Example 2



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### Example 3



### What is virtualization?

Virtualization is the process of creating a virtual version of something, such as an operating system, server, storage device, or network resources. It allows multiple virtual instances to run on a single physical machine, enabling more efficient resource utilization.

### What is virtualbox?



VirtualBox is a free and open-source virtualization software that allows users to run multiple operating systems on a single physical machine. It supports various guest operating systems, including Windows, Linux, macOS, and more.

### What is a virtual machine?

A virtual machine (VM) is a software emulation of a physical computer that operates like an independent computer system. It runs on a host machine and allows users to run multiple operating systems simultaneously on the same hardware.

## What is Ubuntu Server?



Ubuntu Server is a variant of the Ubuntu operating system designed specifically for server environments. It provides a stable and secure platform for hosting web applications, databases, and other server-based services.

## What is a firewall?

A firewall is a network security device or software that monitors and controls incoming and outgoing network traffic based on predetermined security rules. It acts as a barrier between a trusted internal network and untrusted external networks.

## What is SSH?

SSH is a cryptographic network protocol used to securely access and manage remote computers over an unsecured network. It provides encrypted communication between the client and server, allowing users to securely log in to remote systems and execute commands remotely.

## Other Relevant Concepts

### Secure Shell capabilities

- Functions that SSH enables include the following:
- secure remote access to SSH-enabled network systems or devices for users, as well as automated processes
- secure and interactive file transfer sessions;
- automated and secured file transfers;
- secure issuance of commands on remote devices or systems; and
- secure management of network infrastructure components.

## Concepts i don't understand:

### What is SSH tunneling?

- SSH tunneling, also known as SSH port forwarding, is a technique that enables a user to open a secure tunnel between a local host and a remote host.