

Deliverable 1 Submission

Basic Terminology

What is a web server?

A web server is a software or hardware that serves web content to users over the internet. It processes incoming network requests over HTTP or HTTPS protocols and delivers web pages, images, videos, and other content to the user's browser.

What are some different web server applications?

- Apache HTTP Server: One of the oldest and most widely used web servers.
- Nginx: High performing and commonly used as a reverse proxy server.
- Microsoft Internet Information: Developed by Microsoft for Windows servers.
- Google Web Server: Developed by Google to serve their web pages and services.
- Caddy: A modern open-source web server with automatic HTTPS support.

What is virtualization?

Virtualization is a technology that allows multiple operating systems and applications to run simultaneously on a single physical machine.

What is virtualbox?

Virtualbox is an open source virtualization software developed by Oracle. Virtualbox provides a platform for creating and managing virtual machines, making it useful for development, testing, and running software in isolated environments.

What is a virtual machine?

A virtual machine is a software emulation of a physical computer that operates within another computing environment. Each VM has its own virtualized hardware components, such as CPU, memory, storage, and network interfaces.

What is Ubuntu Server?

Ubuntu server is a variant of the Ubuntu operating system designed for server environments. It is based on the Debian Linux distribution. It is popular for hosting web servers, database servers and file servers in both on-premises and cloud environments.

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. Firewalls can filter traffic based on IP addresses, ports, protocols, and application types to allow or block connections.

What is SSH?

SSH stands for Secure Shell and its a cryptographic network protocol that allows secure communication between two computers over an insecure network. It encrypts data exchanged between the client and server, protecting it from interception. It is commonly used for remote administration, remote command execution, and secure file transfer.