Cloud Computing and its Types

Cloud Computing Overview

Cloud computing is a technology that enables on-demand access to computing resources like servers, storage, databases, networking, software, and analytics over the internet, or 'the cloud.' It allows users to store and process data in remote data centers, eliminating the need for local hardware. This model offers flexibility, scalability, and cost-efficiency, as users pay only for the resources they use.

Types of Cloud Computing

1. Infrastructure as a Service (IaaS): Provides virtualized computing resources over the internet, like virtual machines and storage.

2. Platform as a Service (PaaS): Supplies an environment for developers to build, test, and deploy applications without managing underlying hardware.

3. Software as a Service (SaaS): Delivers software applications over the internet, accessible on-demand via a web browser.

4. Function as a Service (FaaS): Supports event-driven applications by running individual functions in response to events, enabling serverless computing.