MODULE 1

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**Cloud Computing:** The on-demand delivery of compute power, databases, storage, applications, and other IT resources using the internet with pay-as-you-go pricing.

**Amazon Web Services(AWS):** A platform that provides a wide range of cloud computing services.

**Cloud Storage:** Saving data using a cloud service provider (CSP) instead of a physical machine.

**Server:** A computer designed to process requests and deliver data to another computer over the Internet or a local network. In the cloud, a server is hosted by an outside provider, which is accessed over the internet.

**Why do businesses use cloud cloud computing?**

* Pay less to get your business started. Pay more as your business grows.
* Services are cheaper because costs are spread across many users.
* Your computing power and storage scales to fit what you need, so you only pay for what you use.
* It is faster and easier to add new resources when you need them.
* Cloud providers maintain, secure, and run the computers and facilities for cloud services.
* It is easy to release your application or advertise anywhere in the world because everything in online.

**Type of Cloud Service:**

* **Infrastructure as a Service (IaaS):**
  + Compute power, networking, and storage provided over the internet.
  + Eg: Amazon EC2, Google Compute Engine, Rackspace
* **Platform as a Service (Paas):**
  + Tools provided over the internet for making programs and applications
  + Eg: AWS Elastic Beanstalk, Microsoft Azure, Google App Engine
* **Software as a Service (SaaS):**
  + Applications and programs that are accessed and provided over the internet
  + Eg: Dropbox, Slack, Spotify, YouTube