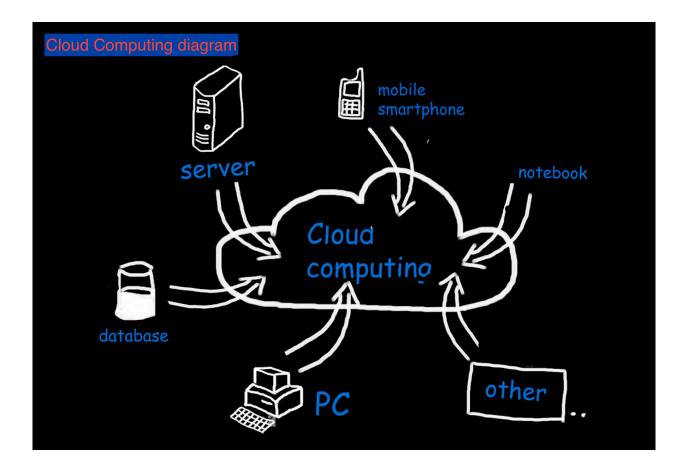
Cloud Computing - A Brief Introduction:



- Cloud is just really a platform that you can have on-demand availability and delivery of virtual IT resources that you need for your personal use or your business use.
- Use these resources on a pay-as-you-go model, which means you use them and we will be billed for those services as we use them.
- Using cloud infrastructure or services means that the customer, do not physically own the infrastructure.

What is Cloud computing?

Cloud computing is the delivery of different services through the Internet. These resources include tools and applications like

- Data storage
- Servers
- Databases
- Networking
- Software.

Why cloud?

- Agile On Demand Flexible & Scalable
- Payment Models Subscription / Pay-As-You-Go
- Unlimited Resources Unlimited Expertise Reliability
- · Global Coverage Accessibility / Many Locations Ready for Disasters
- Usage of Latest Technology / Industry Standards Collaboration Easy to Integrate

Types Of Cloud Computing:

Cloud operates on 4 different models

Four cloud options



PRIVATE CLOUD

A private cloud is typically defined as everything behind a company's walls. These kinds of systems operate in a company's local data centers, although some companies prefer to use colocated data center facilities.



PUBLIC CLOUD

The public cloud includes a whole host of services and companies. The most common names are AWS and Microsoft Azure, among others. However, you may also hear software as a service, such as Microsoft Office 365, included in the definition.



HYBRID CLOUD

A hybrid cloud deployment most typically describes a situation in which a company is operating both a private cloud and a public cloud. In general, in a hybrid cloud environment, the private and public services are integrated with one another.



MULTI-CLOUD

A multi-cloud strategy is an approach that operates any combination of private, public and hybrid clouds. An organization may have multiple public and private clouds or multiple hybrid clouds, all either connected together or not.

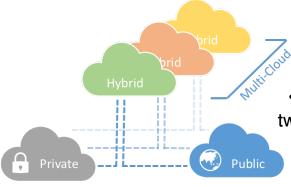
Private Cloud - which is for organizations operating on a private



- network. There are two types of private cloud
- Hosted private clouds, which are offered by a third-party cloud provider
- Internal private clouds, which are managed and maintained by an organization internally.

- Public Cloud and this is owned by a provider like Amazon or Google or even Microsoft. And they provide a cloud computing model or cloud computing infrastructure for individuals like ourselves or businesses that want to take advantage of them.
- Hybrid Cloud and this is just a combination of both private and public cloud offering.

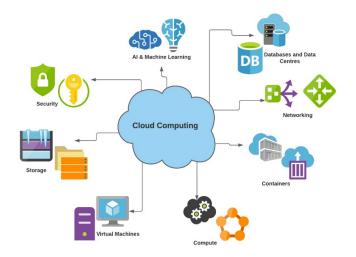




 Multi-cloud - environment consists of two or more public cloud providers but does not require a private or onpremises component.

Why should we use Cloud?

- Flexibility
- Agility
- Cost reduction
- Faster innovation
- Security
- Quality control
- Competitive advantage
- Sustainability
- Loss Prevention
- Improved performance



Different Types of Cloud Providers

1. Amazon Web Services

- Amazon web services provides an on-demand Cloud Computing platform to individuals, companies, and governments on a paid-subscription basis.
- It offers a wide range of cloud services such as Infrastructure as a Service (IaaS), Platform as a Service (PaaS), and Software as a Service (SaaS).

Key Features of AWS

- Reliable, scalable, and low-cost infrastructure platform
- Over 200 fully-featured services
- A flexible and secure cloud computing environment
- 81 availability zones in 25 geographic regions across the world.

Notable users of Amazon Web Services (AWS)

- Coursera
- Netflix
- Airbnb
- Food and Drug Administration (FDA)
- Coca Cola

2. Microsoft Azure

Microsoft Azure has the lowest on-demand and discounted instance pricing. Specialist developers can write, test and deploy algorithms using the Azure Machine Learning Studio.

Key Features of Azure

- More than 200 products and cloud services
- 90+ compliance offerings
- 95 percent of the Fortune 500 companies rely on Azure
- Datacentres in 60+ global regions

Notable users of Microsoft Azure

- Audi
- HSBC

- Starbucks
- Walmart
- HP
- Renault

3. Google Cloud Platform (GCP)

- With an intuitive interface, lower costs, preemptible instances and flexible compute options, GCP is an attractive alternative to both AWS and Azure.
- Google uses full-scale encryption of all data and communication channels including the traffic between data centers.
- Google Cloud Platform launched in 2008, and in less than a decade, it has established a strong foothold in the cloud business.
- Google Cloud strengthened Google's products, including its hugely popular search engine and its video-sharing platform, YouTube.

Key Features of GCP

- · Open source, multi-cloud, and hybrid cloud
- Over 200 products
- · A global network spanning across 200+ countries & territories, 85 zones
- Trust and security

Notable users of Google Cloud Platform (GCP)

- · Toyota
- Spotify
- Twitter
- Paypal
- · UPS