

Public, private, private Cloud

Public Cloud

- A Public Cloud is Cloud Computing in which the infrastructure and services are owned and operated by a third-party provider and made available to the public over the internet.
- The public can access and use shared resources, such as servers, storage, and applications and the main thing is you pay for what you used.
- Examples of public cloud providers – are Amazon Web Services (AWS), Microsoft Azure, and Google Cloud Platform (GCP)

Advantages

- **Cost Efficient**
- **Automatic Software Updates**
- **Accessibility**

Disadvantages

Security and Privacy Concerns:

Limited Control

Reliance on Internet Connectivity:

Service Downtime

Compliance and Regulatory Issues

Private Cloud

- A Private Cloud is a cloud computing environment in which the infrastructure and services are owned and operated by a single organization.
- it is accessed by only authorized users within that organization.
- Private Cloud organizations have their own data center.
- private cloud provides a higher level of security.

Advantages

Security Status:

Customization of Service:

Privacy:

Disadvantages

Higher Cost

Limited Scalability:

Technical Complexity:

Security Risks:

Lack of Standardization:

Maintenance and Upgrades:

Hybrid Cloud

- A hybrid cloud is a combination of both public and private cloud
- take advantage of the benefits of both types of clouds.
- It can provide greater flexibility, scalability, and cost-effectiveness than using a single cloud environment.

Advantages

- **Flexibility:** Hybrid cloud stores its data (also sensitive) in a private cloud server. While public server provides Flexibility and Scalability.
- **Scalability:** Hybrid cloud Enables organizations to move workloads back and forth between their private and public clouds depending on their needs.
- **Security:** Hybrid cloud controls over highly sensitive data. and it provides high-level security. Also, it takes advantage of the public cloud's cost savings.

- **Disadvantages**

Complexity:

Cost:

Security Risks:

Data Governance: