



WRITE UP FOR CLOUD SERVER TECHNOLOGY

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Cloud Server Based Technology:

Cloud Server Based Technology is an internet-based computing service in which large groups of remote servers are networked together to allow centralized data storage and online access to computer services or resources.

Cloud computing platform which provides services such as computing power, database storage, content delivery and many other functions which will help to integrate a business. Example: Amazon Web Services is flexible, scalable, and reliable and due to this many companies are implementing it in their work. There is no upfront cost and the customer pays only for what they have used. It is one of the leading cloud service providers among all.

It enables the following:

- 1) Users can provision and release resources on-demand.
- 2) Resources can be scaled up or down automatically, depending on the load.
- 3) Resources are accessible over a network with proper security.
- 4) Cloud service providers can enable a pay-as-you-go model, where customers are charged based on the type of resources and per usage.

Types of cloud services:

Public - the third-party service providers make resources and services available to their customers via Internet. Customer's data and related security is with the service providers' owned infrastructure.

Hybrid- A hybrid cloud is the combination of both private and public cloud. The decision to run on private or public cloud usually depends on various parameters like sensitivity of data and applications, industry certifications and required standards, regulations, etc.

Private--A private cloud also provides almost similar features as public cloud, but the data and services are managed by the organization or by the third party only for the customer's organization. In this type of cloud, major control is over the infrastructure, so security related issues are minimized.

Advantages:

Cost-Efficient – Building our own servers and tools is time-consuming as well as expensive as we need to order, pay for, install, and configure expensive hardware, long before we need it. However, using cloud computing, we only pay for the amount we use and when we use the computing resources. In this manner, cloud computing is cost efficient.

Reliability – A cloud computing platform provides much more managed, reliable and consistent service than an in-house IT infrastructure. It guarantees 24x7 and 365 days of service. If any of the server fails, then hosted applications and services can easily be transited to any of the available servers.

Unlimited Storage – Cloud computing provides almost unlimited storage capacity, i.e., we need not worry about running out of storage space or increasing our current storage space availability. We can access as much or as little as we need.

Backup & Recovery – Storing data in the cloud, backing it up and restoring the same is relatively easier than storing it on a physical device. The cloud service providers also have enough technology to recover our data, so there is the convenience of recovering our data anytime.

Easy Access to Information – Once you register yourself in cloud, you can access your account from anywhere in the world provided there is internet connection at that point. There are various storage and security facilities that vary with the account type chosen.

Disadvantages:

Not easy to switch service providers

Cloud service providers promises vendors that the cloud will be flexible to use and integrate, however switching cloud services is not easy. Most organizations may find it difficult to host and integrate current cloud applications on another platform. Interoperability and support issues may arise such as applications developed on Linux platform may not work properly on Microsoft Development Framework (.Net)

Top Cloud Server providers:

Amazon Web Service (AWS)	Red Hat
Microsoft Azure	Salesforce
Google Cloud Platform	Oracle Cloud
IBM Cloud Services	SAP
Adobe Creative Cloud	Verizon Cloud
Kamatera	Navisite
VMware	Dropbox
Rackspace	

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