Essential Characteristics

Cloud computing is becoming popular day by day. Continuous business expansion and growth requires huge computational power and large-scale data storage systems. Cloud computing can help organizations expand and securely move data from physical locations to the 'cloud' that can be accessed anywhere.

Cloud computing has many features that make it one of the fastest growing industries at present. The flexibility offered by cloud services in the form of their growing set of tools and technologies has accelerated its deployment across industries.

1. Resources Pooling

Resource pooling is one of the essential features of cloud computing. Resource pooling means that a cloud service provider can share resources among multiple clients, each providing a different set of services according to their needs. It is a multi-client strategy that can be applied to data storage, processing and bandwidth-delivered services. The administration process of allocating resources in real-time does not conflict with the client's experience.

2. On-Demand Self-Service

It is one of the important and essential features of cloud computing. This enables the client to continuously monitor server uptime, capabilities and allocated network storage. This is a fundamental feature of cloud computing, and a customer can also control the computing capabilities according to their needs.

3. Easy Maintenance

This is one of the best cloud features. Servers are easily maintained, and downtime is minimal or sometimes zero. Cloud computing powered resources often undergo several updates to optimize their capabilities and potential. Updates are more viable with devices and perform faster than previous versions.

4. Scalability And Rapid Elasticity

A key feature and advantage of cloud computing is its rapid scalability. This cloud feature enables cost-effective handling of workloads that require a large number of servers but only for a short period. Many customers have workloads that can be run very cost-effectively due to the rapid scalability of cloud computing.

5. Economical

This cloud feature helps in reducing the IT expenditure of the organizations. In cloud computing, clients need to pay the administration for the space used by them. There is no cover-up or additional charges that need to be paid. Administration is economical, and more often than not, some space is allocated for free.

6. Measured And Reporting Service

Reporting Services is one of the many cloud features that make it the best choice for organizations. The measurement and reporting service is helpful for both cloud providers and their customers. This enables both the provider and the customer to monitor and report which services have been used and for what purposes. It helps in monitoring billing and ensuring optimum utilization of resources.

7. Security

Data security is one of the best features of cloud computing. Cloud services make a copy of the stored data to prevent any kind of data loss. If one server loses data by any chance, the copied version is restored from the other server. This feature comes in

handy when multiple users are working on a particular file in real-time, and one file suddenly gets corrupted.

8. Automation

Automation is an essential feature of cloud computing. The ability of cloud computing to automatically install, configure and maintain a cloud service is known as automation in cloud computing. In simple words, it is the process of making the most of the technology and minimizing the manual effort. However, achieving automation in a cloud ecosystem is not that easy. This requires the installation and deployment of virtual machines, servers, and large storage. On successful deployment, these resources also require constant maintenance.

9. Resilience

Resilience in cloud computing means the ability of a service to quickly recover from any disruption. The resilience of a cloud is measured by how fast its servers, databases and network systems restart and recover from any loss or damage. Availability is another key feature of cloud computing. Since cloud services can be accessed remotely, there are no geographic restrictions or limits on the use of cloud resources.

10. Large Network Access

A big part of the cloud's characteristics is its ubiquity. The client can access cloud data or transfer data to the cloud from any location with a device and internet connection. These capabilities are available everywhere in the organization and are achieved with the help of internet. Cloud providers deliver that large network access by monitoring and guaranteeing measurements that reflect how clients access cloud resources and data: latency, access times, data throughput, and more.

Conclusion

A big part of the cloud's characteristics is its ubiquity. The client can access cloud data or transfer data to the cloud from any location with a device and internet connection. These capabilities are available everywhere in the organization and are achieved with the help of internet. Cloud providers deliver that large network access by monitoring and guaranteeing measurements that reflect how clients access cloud resources and data: latency, access times, data throughput, and more.