



Cloud Computing Analysis

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Abstract — Now a day's Cloud computing is very important aspect. In today's world, it has become a fact of life because of cloud our daily life has become very easy. We are using cloud in areas where we need to store large amount of data. Or an example in business sector or for student. By taking help of cloud computing, life of people became easy because we do not need to store or carry data individually on local devices.

Using personal phone or personal laptops user can simply login and he/she can access data. The data which is present at cloud is very secure. As well as the cost required for storing those data on cloud is also less. In this paper we are trying to explain types of cloud computing and services provided by the cloud.

Keywords: Cloud computing, Server, Networks, Security, Internet Virtualization, Infrastructure.

Received :03/12/2022 Accepted: 14/12/2022 Published: 17/12/2022

I. INTRODUCTION

In today's world cloud computing, it is completely based on Internet. The User can use cloud anywhere and for that He/She will have to pay only for his/her use. For the cloud computing does not required any setup infrastructure. In most of cases, there are lots of technical companies are using cloud and as per the analysis we came to know that in future the use of cloud computing will at very large amount. In our day to day life, all people are using cloud computing for example Netflix, Social Media, Gmail etc.... There are some important cloud computing services for example Google Docs or DigiLocker.

In most of cloud application, relational database is works and code is written in query language or SQL. The program which is written at client side is to be executed in JavaScript. There some other parts also present in cloud computing like storage, software, data access, computation, etc.

II. CLOUD COMPUTING SERVICES

As per the demand we can get lot of services from Cloud using the internet. There are Cloud computing service providers who are providing the cloud services and the cloud services. The service provider provides the cloud services directly to the customers. So do not need to spend money for third party services or for hosting any application. Cloud computing recognize the customer requirements and develop cloud technology accordingly.

Our own global cloud network taking benefit for more than 2,16,000 types of application across 120 countries. In IT sector Cloud services provide very important role for fulfilling the requirements. IT Companies mostly required cloud services for Storage, Management of projects, Security etc..

Cloud provides below Services:

- A. IaaS
- B. PaaS
- C. SaaS

- 1) **Infrastructure-as-a-Service – (IaaS):** Cloud computing provides infrastructure as a service this is also known as hardware as service. This type of service includes High level API in the network. The main advantage of this service is User need do not spend money for purchasing and managing physical servers. This service multiple user can be use at same time.

Below are the characteristics of IaaS -

- Resources are available as a service
- Services are highly scalable
- Dynamic and flexible
- GUI and API-based access
- Automated administrative tasks

Examples of IaaS Services are Digital Ocean, Linode, Amazon Web Services (AWS), Microsoft Azure, Google Compute Engine (GCE), Rackspace, and Cisco Metacloud.

- 2) **Platform-as-a-Service – (PaaS):** Cloud computing provides Platform as a service. This service is at very high demand because the customer are getting readymade platform as per the requirement. Customer do not need to setup or any type of configuration.

Below are the characteristics of PaaS -

- Access of Development applications.
- Integrates with web services and databases.
- Support multiple languages and frameworks.
- Provides an ability to "Auto-scale".

Example: Google App Engine , Apache, AWS Elastic Beanstalk, Windows Azure, Heroku, Force.com, etc..

- 3) **Software-as-a-Service - (SaaS):** SaaS is usually called as Software-as-a-Service or On Demand Software. Using this service user can use any software which is located at cloud using internet or web browser.

Below are the characteristics of SaaS -

- Managed from a central location
- Hosted on a remote server
- Accessible over the internet
- The services are purchased on the pay-as-per-use basis

Example: Google Apps , Cisco WebEx , Slack, etc

III. TYPES OF CLOUD

There are three types of Cloud:

- A. Private cloud
- B. Public cloud
- C. Hybrid cloud

- 1) Private Cloud: It is also called as internal Cloud, The owner of this type of cloud can be single person or small group of people with firewall security. There is no any hardware dependency on cloud; Cloud provides the services to that particular organization. For an example If there is IT company who has purchased private cloud will get the services like store huge data, Store Confidential doc with security, Software management etc..
- 2) Public Cloud: This type of cloud usually handle by third party organization and this service is use by many other organizations using public internet. As per the need customer can use SaaS, PaaS,IaaS..User can pay for particular service and use.
- 3) Hybrid Cloud: This type of service is nothing but combination of both private and public cloud. For an example: Google cloud.

IV. CONCLUSION

This paper we have focused on what is cloud service, what are the services provided by the cloud, what are the types of cloud, and advantages of cloud.

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