

# Cloud Computing

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**Abstract:** To Reduce IT infrastructure cost there is use of cloud computing. The term cloud refers to a network or the internet. It Works in distributed computing environment and multiple users and applications can work more efficiently.

**Keywords:** Cloud, IT infrastructure, hackers, public, private, hybrid, community.

## I. INTRODUCTION

Cloud Computing is a technology which uses remote servers on the internet to store, manage and access data online. the data can be files, images, documents, audio, video etc. It is also used to reduce the cost of IT infrastructure because to establish IT infrastructure we requires lot of money.

### 1.1 Features of Cloud Computing

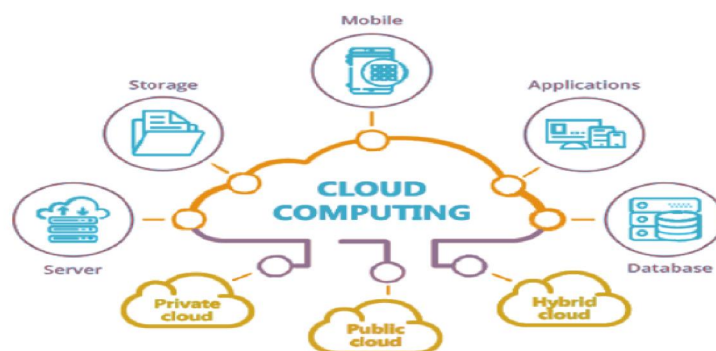
- 1) It shares resources among users very fast.
- 2) Multiple users and applications can work more efficiently with cost reduction.
- 3) Since infrastructure is off-site and accessed using internet. Users can connect from anywhere.
- 4) Maintenance is simple so it reduces the cost.
- 5) API's are provided to the users so they can access services on the cloud using these API's.

### 1.2 Advantages of Cloud Computing

- 1) It is easy to get backup and restore the data using cloud.
- 2) Group of peoples share information quickly and easily in the cloud thus improves collaboration.
- 3) Cloud allows us to access stored information quickly and easily anywhere, anytime in the whole world.
- 4) Cloud Computing reduces both hardware and software maintenance cost.
- 5) Cloud Computing allows us to easily access all cloud data via mobile.
- 6) Cloud provides huge amount of storing capacity for data like documents, images, audio, video etc.
- 7) Cloud provides many advanced features for data security.

### 1.3 Disadvantages of Cloud Computing-

- 1) If we have no good internet connectivity we cannot access data from cloud.
- 2) There is problem while transferring services from one vendor to another.
- 3) Cloud users have less control over the function and execution of services within cloud infrastructure.
- 4) While sending the data on the cloud there may be possibility that data is hacked by hackers.



#### **1.4 Types of Cloud**

There are following types of Cloud-

##### **1) Public Cloud**

Public Cloud is open to all for storing and accessing information using internet by pay-per-usage method. here computing resources are managed and operated by cloud service provider. public cloud is owned at lower cost and its maintenance is easy.

There is no limit to the number of users for public cloud but it is less secure because resources are shared publicly.

##### **2) Private Cloud**

Private Cloud is also called as internal cloud and it is used by organizations to build and manage their own data centers. It provides high level of security and privacy to the users. private cloud offers better performance and more space. Also The organization have full control over the cloud because it is managed by the organization itself so its area of operation is limited.

##### **3) Hybrid Cloud**

Hybrid Cloud is combination of public cloud and private cloud but it is partially secure because the services running on public cloud can be accessed by anyone while the services which are running on private cloud can be accessed only by organizations users. Hybrid cloud helps us to deliver new products and services more quickly. but its security feature is not so good.

##### **4) Community Cloud**

Community Cloud allows systems and services accessible by group of several organizations to share the information between the organization and specific community. It is owned, managed and operated by one or more organizations in the community.

Community cloud is cost effective because it is shared by different organizations or communities. It provides distributive environment. Community cloud allows us to share global resources, infrastructure among various organizations but its security feature is not so good.

## **II. CONCLUSION**

Cloud computing provides computer system resources, data storage and computing power using internet. It relies on sharing resources to reduce the cost of IT infrastructure and provides four types of clouds from which private cloud is secure.

## **REFERENCES**

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