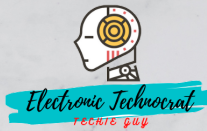


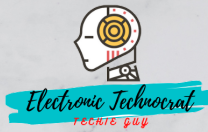
# CLOUD COMPUTING SNIPPETS





# Components of Cloud Computing Architecture





There are the following components of cloud computing architecture:

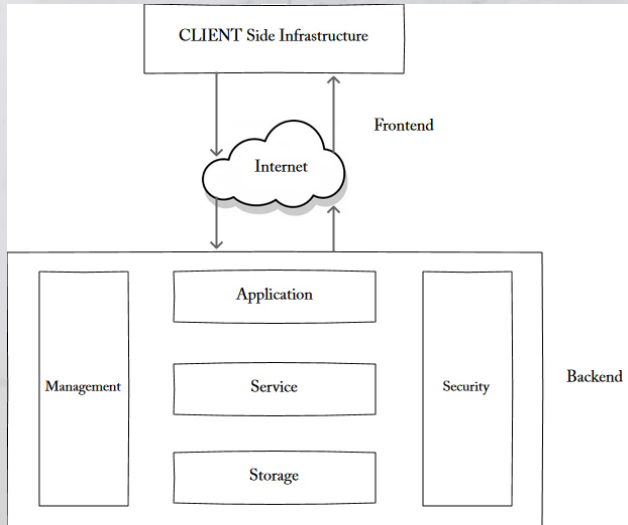
### **1. Client Infrastructure :**

- Client Infrastructure is a Front end component.
- It provides GUI (Graphical User Interface) to interact with the cloud.

### **2. Application :**

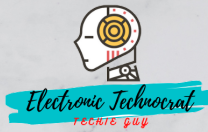
- The application may be any software or platform that a client wants to access.





## Components of Cloud Computing Architecture





### 3. Service :

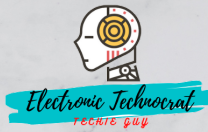
- A Cloud Services manages that which type of service you access according to the client's requirement.
- Cloud computing offers the following three type of services:

#### i. Software as a Service (SaaS) -

- It is also known as cloud application services.
- Mostly, SaaS applications run directly through the web browser means we do not require to download and install these applications.
- Some important example of SaaS is given below- Google Apps, Salesforce Dropbox, Slack, Hubspot, Cisco WebEx.



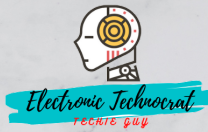




## ii. Platform as a Service (PaaS) –

- It is also known as cloud platform services.
- It is quite similar to SaaS, but the difference is that PaaS provides a platform for software creation, but using SaaS, we can access software over the internet without the need for any platform.
- Example: Windows Azure, Force.com, Magento Commerce Cloud, OpenShift.





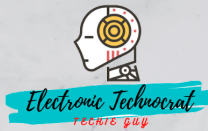
### iii. Infrastructure as a Service (IaaS) –

- It is also known as cloud infrastructure services.
- It is responsible for managing application data, middleware, and runtime environments.
- Example: Amazon Web Services (AWS) EC2, Google Compute Engine (GCE), Cisco Metapod.

### 4. Runtime Cloud :

- Runtime Cloud provides the execution and runtime environment to the virtual machines.





## 5. Storage :

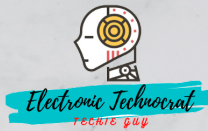
- Storage is one of the most important components of cloud computing.
- It provides a huge amount of storage capacity in the cloud to store and manage data.

## 6. Infrastructure :

- It provides services on the host level, application level, and network-level.
- Cloud infrastructure includes hardware and software components such as servers, storage, network devices, virtualization software, and other storage resources that are needed to support the cloud computing model.







## 7. Management :

- Management is used to manage components such as application, service, runtime cloud, storage, infrastructure, and other security issues in the backend and establish coordination between them.

## 8. Security :

- Security is an in-built back end component of cloud computing. It implements a security mechanism in the back end.

## 9. Internet :

- The Internet is medium through which front end and back end can interact and communicate with each other.

