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Kurumbapalayam(Po), Coimbatore - 641 107

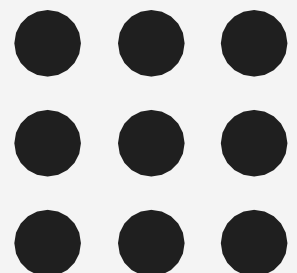
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Department of Information Technology

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SNSCE / IT/ CS8791 Cloud Computing





Components of Cloud computing

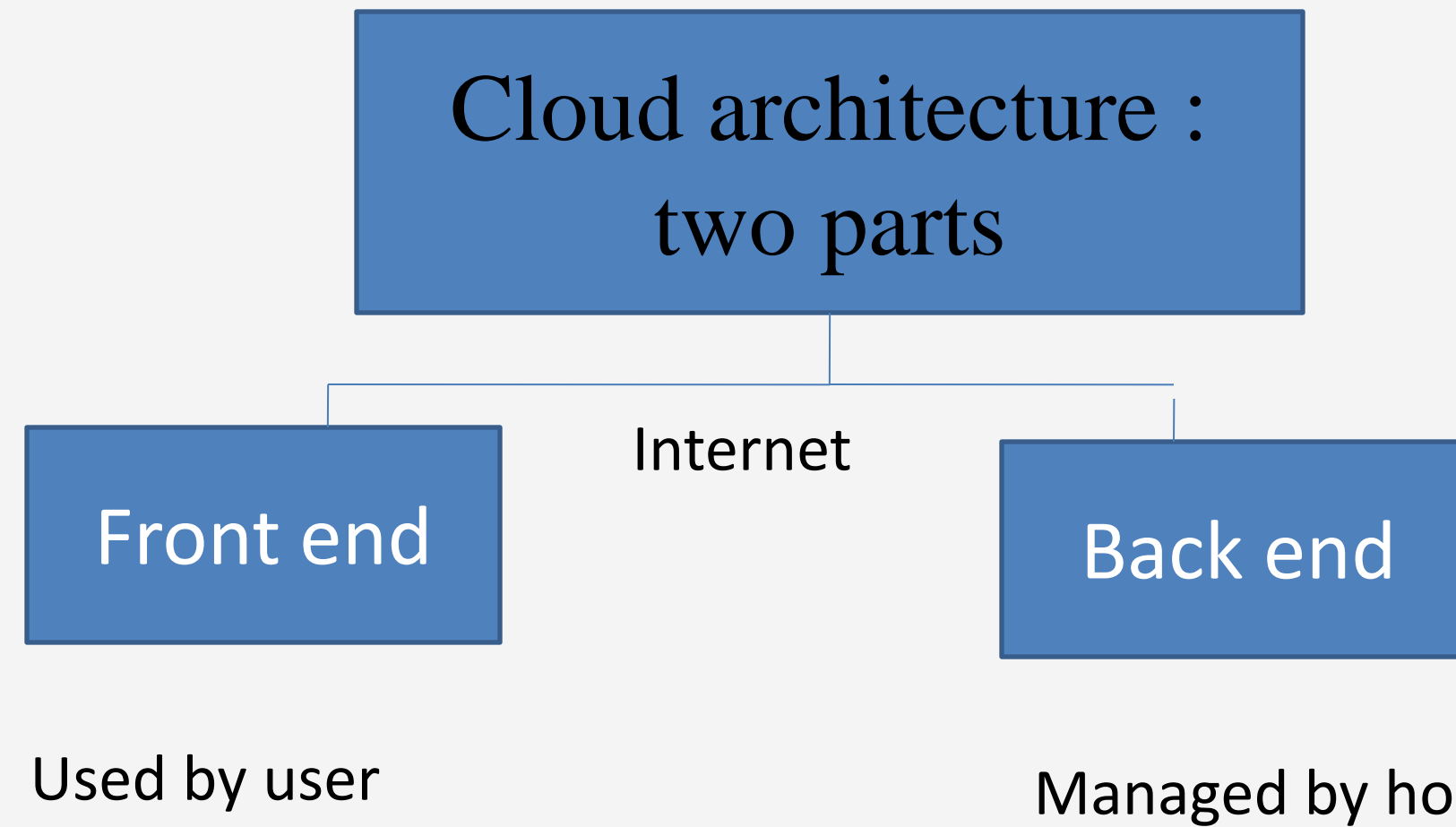
Prepared by
T.R.Lekhaa,
AP/IT



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Components

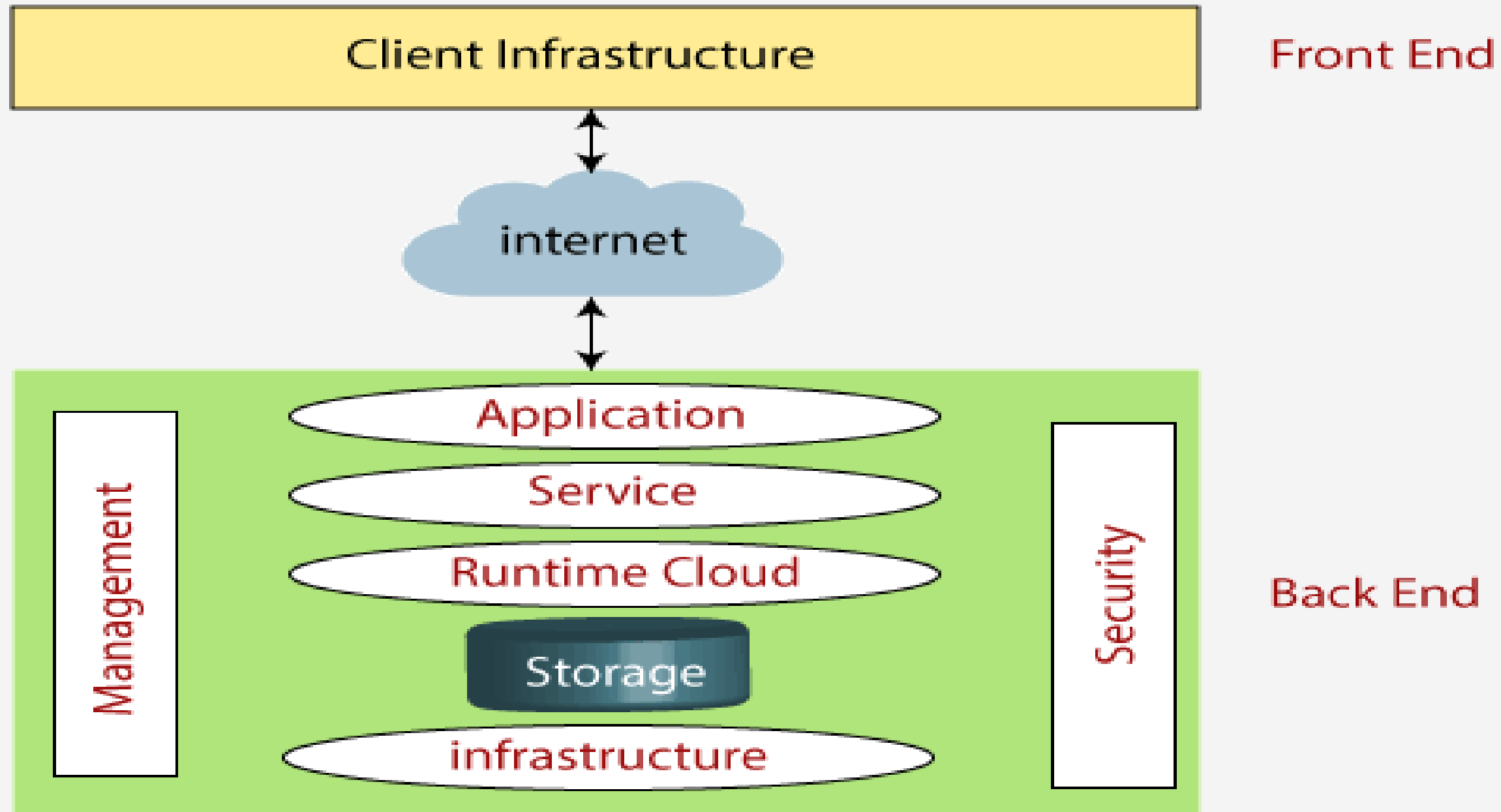


- The frontend includes applications and interfaces that help the user access the cloud services.
- The company offering cloud services manages the back end and has data storage facilities, virtual machines, security systems, and servers.



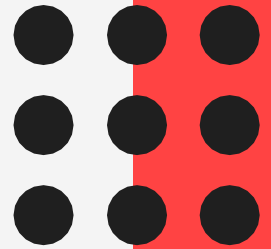
Components

Architecture of Cloud Computing





Client Infrastructure

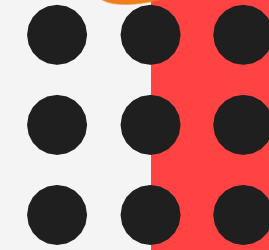


The client infrastructure component is the part of the frontend which provides a graphic user interface for the user to interact with the cloud.



Application

An application is any platform like an app or software offered by a company by which the clients access the cloud.



Service

- A cloud service manages the kind of service that a client needs to use according to his requirement.
- There are three types of services in cloud computing:
 - SAAS
 - PAAS
 - IAAS



Runtime Cloud

- The runtime cloud provides the execution and runtime environment to the virtual machines.



Storage



- The storage component of cloud computing provides the storage capacity in the cloud for storing and managing data.
- In cloud storage, the data can be accessible to multiple clients simultaneously.
- Cloud storage is generally in the form of three basic configurations:
 - public cloud
 - private cloud
 - hybrid cloud.



Infrastructure



- The infrastructure provides services on the host level, application level, and network level.
- It includes the software and hardware components such as the storage network devices server and any other storage resource required to support the cloud computing model.



Management



- Management is used for managing the components such as storage services, applications, runtime cloud infrastructure, and security issues in the backend and for establishing coordination.



Security



- Security is the backend component of cloud computing, which insuranses the security of data in the cloud.
- The security system in the cloud includes a broad set of policies, technologies, applications, and controls that are used for protecting the IP's, data, applications, infrastructure, and the services offered in cloud computing.



Internet



- Internet is the medium using which the frontend and backend components communicate and interact with each other.