



SNS COLLEGE OF ENGINEERING

Kurumbapalayam (Po), Coimbatore – 641 107

An Autonomous Institution

Accredited by NBA – AICTE and Accredited by NAAC – UGC with ‘A’ Grade
Approved by AICTE, New Delhi & Affiliated to Anna University, Chennai

**DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING(IoT and
Cybersecurity Including BCT)**

COURSE NAME : cloud service management

IV YEAR / VII SEMESTER

Unit II-

Topic : Cloud Strategy Fundamentals



The cloud is a large ecosystem of computers that communicate and integrate with each other to deliver a specific service to customers. Cloud service providers make sure that they always maintain a high-speed network connection within their infrastructures to support the needs of their end-users.

Some of the fundamental blocks of Cloud Computing are **Compute**, **Storage**, **Database**, **Networking**, and **Security**.

Compute

- The database is a system that stores and manages structured and unstructured information. Databases in the cloud are typically managed and offered as a service by a cloud service provider
- Databases in the cloud are also scalable and highly available in nature.

Storage

- The main benefit of storing data in the cloud is the convenience of increasing your storage capacity without maintaining and buying more local hard drives. You cannot prevent data corruption from happening in the event of a hard disk failure.
- In the cloud, your data is stored persistently across logical pools in physical storage hosted by your cloud service provider. You can store different types of data such as objects, files, and backups.



Database

- The database is a system that stores and manages structured and unstructured information. Databases in the cloud are typically managed and offered as a service by a cloud service provider.
- This means that maintaining and updating the underlying components of your database instance, such as OS updates and software patches, are no longer your responsibility. Databases in the cloud are also scalable and highly available in nature.

Networking

- The cloud is a large ecosystem of computers that communicate and integrate with each other to deliver a specific service to customers.
- Cloud service providers make sure that they always maintain a high-speed network connection within their infrastructures to support the needs of their end-users.
- You can use the cloud to provide a global link to distribute your application all over the world.

Security

- In the cloud, data is stored in secured remote data center facilities. This means that threats like theft and data breach are unlikely going to happen.
- As a cloud user, your responsibility is more on data management. The cloud has sets of tools to help you enforce high levels of security.
- For example, you have control on the encryption and decryption of your data. You can also choose to authenticate and authorize selected users and services to access your applications.