



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

III YEAR / V SEMESTER

Unit II-cloud service management fundamentals

Topic : Cloud service models



Cloud service models, often referred to as cloud computing service models, represent different levels of cloud-based IT services and resources that are delivered over the internet. These models describe the extent of management and control that cloud customers (users or organizations) have over the underlying infrastructure and services. There are three primary cloud service models:

Infrastructure as a Service (IaaS):

Description: IaaS provides the foundational infrastructure components in a virtualized environment. This includes virtual machines, storage, and network resources. Users have more control over the operating systems, applications, and configurations compared to other service models.

Use Cases: IaaS is suitable for organizations that want to build and manage their own IT environment in the cloud. It's often used for development and testing, hosting websites, and running custom applications.

Examples: Amazon Web Services (AWS) EC2, Microsoft Azure Virtual Machines, Google Cloud Compute Engine.



Platform as a Service (PaaS):

Description: PaaS is a higher-level cloud service that provides a platform for developing, deploying, and managing applications. It abstracts the underlying infrastructure, allowing developers to focus on coding and application development without worrying about the underlying infrastructure details.

Use Cases: PaaS is ideal for developers and software teams who want to create and deploy applications rapidly without managing the underlying infrastructure. It's commonly used for web and mobile app development.

Examples: Heroku, Google App Engine, Microsoft Azure App Service.

Software as a Service (SaaS):

Description: SaaS is a cloud service model that offers fully developed and hosted software applications delivered over the internet. Users access these applications through web browsers without having to install or manage the software locally.



Use Cases: SaaS is used for a wide range of business applications, including email, customer relationship management (CRM), office productivity tools, and collaboration software. It is ideal for organizations looking for ready-made solutions without the need for software maintenance.

Examples: Salesforce, Microsoft 365 (formerly Office 365), Google Workspace, Zoom.