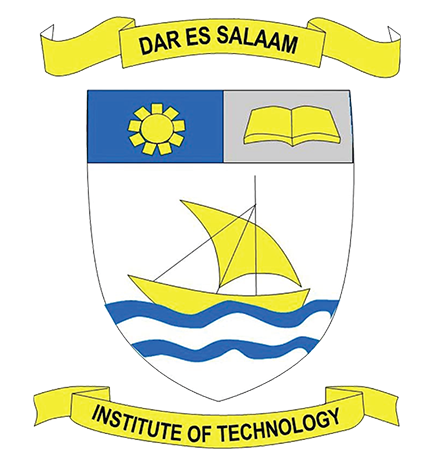
**DAR ES SALAAM INSTITUTE OF TECHNOLOGY**



**DEPARTMENT OF COMPUTER STUDIES**

**MODULE: CLOUD COMPUTING**

**MODULE CODE: 05217**

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**QUESTION: EXPLAIN FOUR CLOUD COMPUTING SERVICES OFFERED BY CLOUD SERVICE PROVIDERS**

1. **Infrastructure as a Service (IaaS):** This provides virtualized computing resources over the internet, including virtual machines, storage, and networking. Examples are **Amazon Web Services (AWS) where** AWS EC2 (Elastic Compute Cloud) offers resizable compute capacity in the cloud, allowing users to quickly scale up or down as needed. Microsoft Azure Virtual Machines, and Google Compute Engine.

Infrastructure as a Service (IaaS) is suitable for businesses that need flexible computing resources without the burden of managing physical hardware. It is commonly used for web hosting, development and testing environments, data backup, and disaster recovery.

1. **Platform as a Service (PaaS):** This offers a platform allowing customers to develop, run, and manage applications without dealing with infrastructure. Examples are Azure App Service which enables developers to build, deploy, and scale web apps and APIs quickly using various programming languages and frameworks..

Platform as a Service (PaaS) is ideal for development teams looking to streamline the application deployment process. It is commonly used for web application development, mobile app backend services, and API development.

1. **Software as a Service (SaaS):** This delivers software applications over the internet on a subscription basis, eliminating the need for users to install and maintain software locally. Examples include Google Workspace (formerly G Suite) which offers a suite of productivity and collaboration tools, including Gmail, Google Drive, Google Docs, and Google Meet. Other examples Microsoft Office 365, and Salesforce.

Software as a Service (SaaS**)** is widely used across various industries for its convenience and scalability. It is commonly used for email and communication, document collaboration, project management, customer relationship management, and human resources management.

1. **Database as a Service (DBaaS):** This provides managed database services, allowing users to deploy and manage databases without worrying about infrastructure management. Users access and interact with the database through a web-based interface or API, without the need to manage the underlying infrastructure or perform administrative tasks. Examples are Azure SQL Database, and Google Cloud SQL.

Database as a Service (DBaaS) offers organizations a cost-effective, scalable, and reliable solution for managing their database infrastructure in the cloud. By outsourcing database management to a trusted cloud provider, organizations can focus on innovation and business growth while ensuring their data remains secure and highly available.