

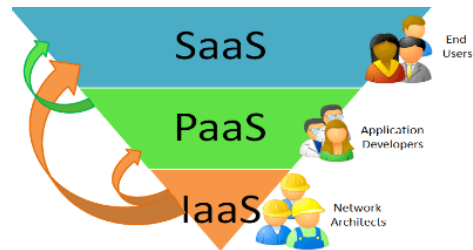
CLOUD COMPUTING

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Cloud Computing is a revolution that will define IT in the second decade of the 21st Century. It has become the basis for radical business innovation and new business models, and for significant improvements in the effectiveness of anyone using information technology.

There are several characteristics that are essential for a service to be considered “Cloud”. These characteristics include: on-demand self-service, broad network access, resource pooling, rapid elasticity, metered use.

Cloud computing services subdivide into three fundamental models: infrastructure as a service (IaaS) at the base, platform as a service (PaaS) as a development tool, and software as a service (SaaS) as an application.



- *Infrastructure as a Service (IaaS)*

IaaS is the virtual delivery of computing resources in the form of hardware, networking, and storage services. The service provider owns the equipment and is responsible for housing, running and maintaining it. The client typically pays on a per-use basis.

- *Platform as a Service (PaaS)*

Platform as a Service (PaaS) is an abstracted and integrated cloud-based computing environment that supports the development, running, and management of applications.

The goal of the PaaS provider is to create an abstracted environment that supports an efficient, cost-effective, and repeatable process for the creation and deployment of high-quality applications.

- *Software as a Service (SaaS)*

Software as a Service (SaaS) is a software distribution model in which applications are hosted by a vendor or service provider and made available to customers over a network, typically the Internet.

SaaS is the foundational idea behind centralized computing: entire businesses and thousands of employees will run their computer

tools as online rented products. All of the processing work and file saving will be done on the Internet, with users accessing their tools and files using a web browser.

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