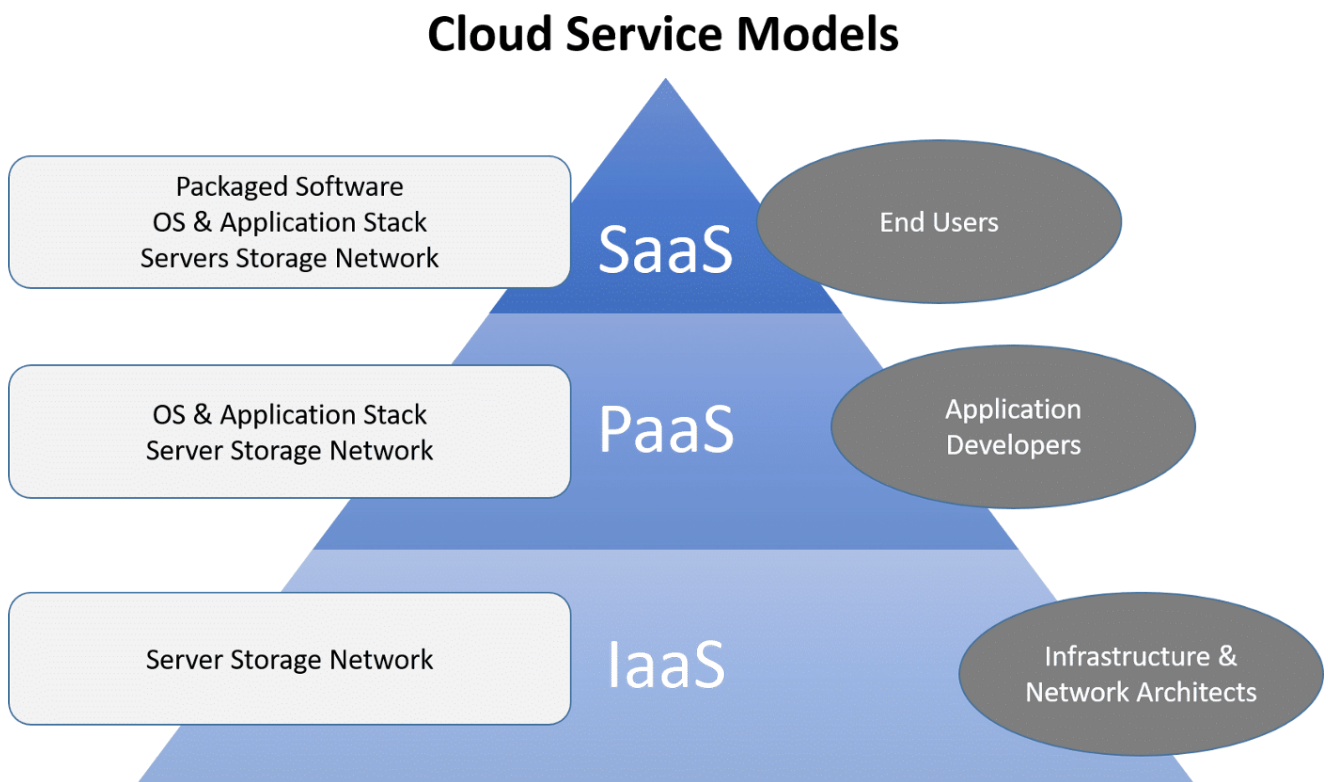


Types of Cloud Computing Services



1. Infrastructure as a Service (IaaS)

- Provides building blocks for cloud IT
- Provides networking, computers, data storage space, Servers, Software.
- Highest level of flexibility
- Easy parallel with traditional on-premises IT.
- *examples: Amazon EC2 (on AWS), GCP, Azure, Rackspace, Digital Ocean, Linode.*

- Delivery of computer infrastructure (typically platform virtualization environment) as a service
- Virtual Machines are run as guests by a hypervisor, such as *Xen* or *KVM*.

2. **Platform as a Service (PaaS)**

- Removes the need for your organization to manage the underlying infrastructure.
- Focus on the deployment and management of your applications.
- *examples: Elastic Beanstalk (on AWS), Heroku, Google App Engine (GCP), Windows Azure (Microsoft), LongJump, OrangeScape.*
- Delivery of an integrated computing platform (to build/test/deploy custom apps) & solution stack as a service.
- Deploy your applications & don't worry about buying & managing the underlying hardware and software layers.

3. **Software as a Service (SaaS)**

- Completed product that is run and managed by the service provider
- *examples: Google Apps (Gmail), Dropbox, Zoom, AWS Services(like Rekognition for Machine learning), QuickBase, salesforce.com(Top in CRM), Basecamp(leading web-based project management & collaboration tool), Microsoft Office 365*
- Application is licensed to a customer as a service on demand
- Software Delivery Model:
 - Hosted on the vendor's web servers
 - Downloaded at the consumer's device and disabled when on-demand contract is over

Basis	IaaS	PaaS	SaaS
Abbreviation	Infrastructure as a Service	Platform as a Service	Software as a Service
Uses	Provide cloud-based services	Hardware and Software tools available over the internet	Available via a third-party over the internet
Used by	Used by network architects	Used by developers	Used by end-users
Access	Access to virtual storage and virtual machines	Access to run time environment to deployment and development tools for application	SAAS provides access to end-user
Model	Provides visualized computing resources over the internet	Deliver tools that are used for the development of application	Service model in cloud computing that host software makes available for client
Technical understanding	Technical Knowledge is required	Knowledge of subject to understand the basic setup	No requirement about technicalities
Cloud Services	Cloud express, sun, amazon web services, Azure	Facebook and Google search engine	Facebook, google apps, and M.S office
Popularity	Popular between developers and researchers	Popular among developers who focus on the development of apps and scripts	Popular between consumer and company
Enterprise services	AWS virtual private cloud	Microsoft azure	AWS Terremark

SaaS v/s PaaS v/s IaaS