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Date	:	10/09/2021

## Amazon Web Services (AWS)

- ★ Amazon web services (AWS) is the most widely used public cloud computing platform across the globe and one of the pioneers of on-demanding computing. Launched in 2006, providing customers worldwide with access to more than 100 services from database management, serverless computing, data warehousing to virtual ground stations for satellite communication.
- ★ There are numerous famous companies that have had their infrastructure successfully built on AWS including Splunk, Infor, Okta, Dynatrace, Crowdangle, Zaproved, Pega system, ...

## SaaS (Software as a service)

- ★ Software that is owned, delivered & managed remotely by one or more providers. The provider delivers software based on one set of common code and data definition that is consumed in a one-to-many model by all contracted customers at any time, on a pay for use basis ....



## Amazon SaaS:-

★ Amazon also include SaaS in it's service.

This software as a service (also called web-based software on-demand software, or hosted software) is a software distribution model whose applications are hosted and made discoverable to the customers over the Internet.

★ When embracing this solution, you will have the access to the application, along with its security, availability & performance managed by the provider. SaaS is also one of Amazon's web services favored by a large number of users worldwide.

## Example Scenario of SaaS:-

★ If you need an HR solution, a SaaS model makes it so you don't need to set up a server or complete system. Instead HR can go directly to a website and utilize the service in a cloud environment.

## Businesses Switch to SaaS model:-

★ Easy integration

★ Instant results, rapid prototyping.

★ No need to invest in infrastructure & its maintenance costs.

★ Innovative and up-to-date technology



- \* User-friendly and secure services.
- \* Availability of Advanced features.
- \* Best-in-class SLAs
- \* Only pay for what you use.
- \* Flexibility for users & businesses.
- \* Lower costs in application development ecosystem.

### AWS Serves as a SaaS

- \* As a SaaS Service Provider, AWS provides its clients with complete solutions that are run & managed by AWS. Businesses don't have to worry about issues like how to maintain the service or essential infrastructure and instead can focus on innovation & business logic.
- \* AWS offers networking services for the cloud through a virtual private cloud and web APIs that offer on-premise connectivity.
- \* AWS as SaaS model adopts a multi-tenant strategy to ensure services are on a secured and secluded space. The distinction to client applications & data are allotted at all layers of services. delivery with services like Amazon CloudWatch



## When to use SaaS:-

### SaaS should be Used by:

- \* Startups or small companies that wish to start running their e-commerce site quickly and have little time for server issues or software.
- \* Companies which prefer quick, easy & affordable collaboration.
- \* Companies with infrequently-used application such as tax software.
- \* Companies which want to provide both web & mobile access for customers.

### AWS SaaS Benefits:-

- \* Able to use directly over the network without having to install any software.
- \* All data can be stored on the internet.
- \* Data can be accessed via any device as long as an Internet connection is available.
- \* Multiple user can access the same data warehouse.



## SaaS Characteristics:-

Below are characteristics that define SaaS as cloud service:-

- \* Managed from a central location.
- \* Hosted on a remote server.
- \* Accessible over the internet.
- \* Users have the hardware or software updated by the provider.

## AWS SaaS drawbacks:-

- \* Difficult to integrate with existing apps & services.
- \* Security risks due to its availability in the Public environment.
- \* Limited customization capabilities.
- \* Loss of operational control which affects how PaaS solutions are managed, Provisioned & operated.

