

CLOUD COMPUTING

Cloud computing is the on-demand availability of resources like data storage and computing power. It includes the infrastructurerelated hardware and also the software used to deliver the ondemand services over the internet. Cloud services users are not actively involved in the management of the network.

BENEFITS OF CLOUD COMPUTING



Improved security



Anytime, anywhere accessibility

Automatic software updates



Better scalability options

Simplified maintenance



Better collaboration due to shared storage

Reduced carbon footprint









SERVICE MODELS OF THE CLOUD







INFRASTRUCTURE AS A SERVICE (laaS)

Delivers cloud computing infrastructure, servers, network, OS and storage

Clients have full control over the cloud infrastructure

Workforce often needed to manage infrastructure, this increasing costs

Highly flexible and scalable cloud computing model

Multiple users on a single piece of hardware



PLATFORM AS A SERVICE (PaaS)

Delivers a platform for software development over the web

No constraints surrounding the OS, software, storage, or infrastructure

> Adopts virtualization technology leading to better scalability

The development application can be accessed by multiple users

Ideal for development of customized apps, provides great speed and flexibility



SOFTWARE AS A SERVICE (SaaS)

Managed by third party vendors and hosted on remote servers

Does not offer much customization and has limited functionality

Applications run through a web browser

Users are not in-charge of software and hardware updates or patches

Quick, easy and inexpensive option for startups and small companies





TYPES OF CLOUD HOSTING



PRIVATE CLOUD

Cloud computing that is dedicated to a single organization



PUBLIC CLOUD

Cloud computing that uses the internet and is shared across various organizations



HYBRID CLOUD

An environment that uses a mix of both - public and private clouds

Highly customizable and scalable

Less complex but decreased security, minimal control

Much more complex but offers better security

Developed for and operated by a single entity

Operated on networks open to the public

Better scalability without the threats of security

Larger investments and more maintenance

Flexible pricing and no maintenance costs

Best suited for organizations working in multiple verticals with different policies

SOURCES:

https://www.bmc.com/blogs/public-private-hybrid-cloud/ https://www.visualistan.com/2017/04/everything-you-need-to-understand-cloud-computing.html lcons made by "phatplus" from "Flaticon">www.flaticon.com lcons made by "Eucalyp" from "Flaticon">www.flaticon.com lcons made by "Becris" from "Flaticon">www.flaticon.com lcons made by "Freepik" from "Flaticon">www.flaticon.com lcons made by "Freepik" from "Flaticon">www.flaticon.com lcons made by "Freepik" from "Flaticon">www.flaticon.com