

WHAT IS CLOUD?



Let's assume that you are watching a cloud in the sky. but have you ever thought that you can watch the same cloud anywhere in your location. This is how it works, you can access the data/application via the internet at any time in anyway.

Why Cloud?



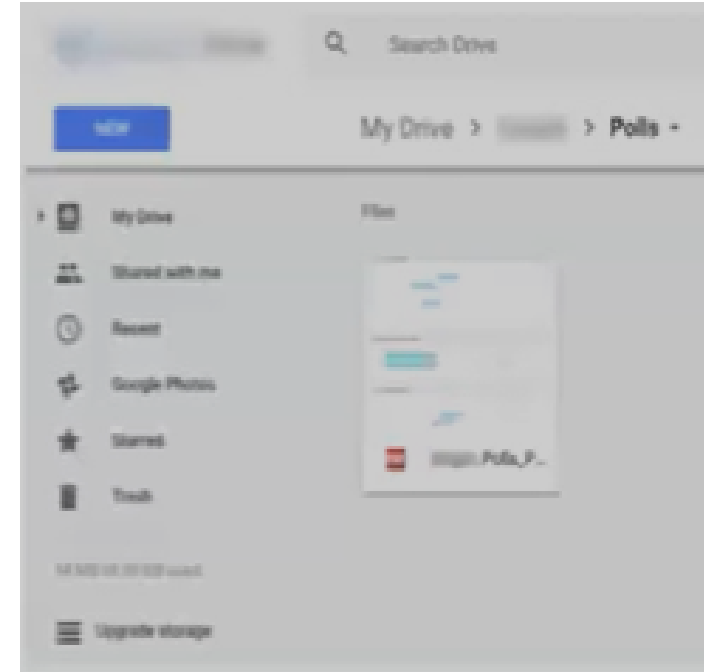
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- If you are working on a project for 30 days and you saved all your data on your local PC. But unexpectedly your PC got broken. You lost all Project data.
- NOTE:

Whenever you saved your data in a physical device like memory Cards, CDs, and Pen drives. If you lost these devices or if the devices gets crashed then the data should not be retrieved.

But what if you saved all your files in to cloud.



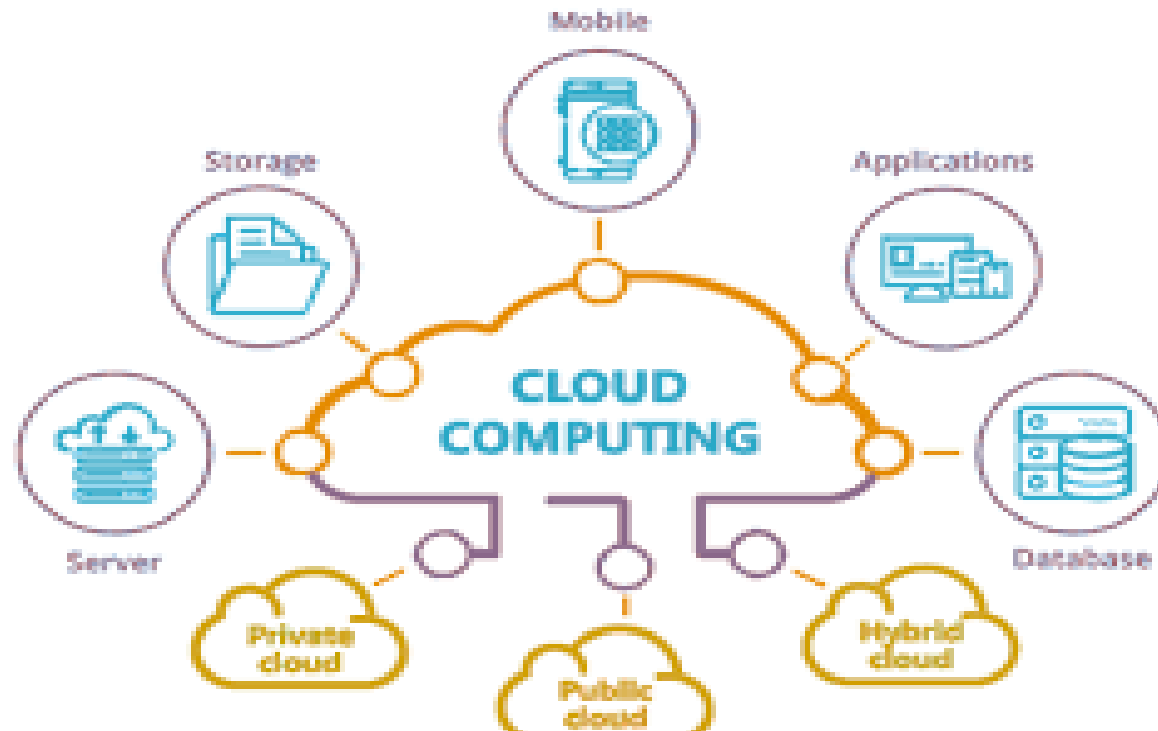
- Now even if you lose your files now , no need to worry about data. Because all your files and folders are securely stored in the cloud.

What is Cloud Computing

- Cloud Computing is the delivery of computing services like Servers, Storage, Database, Networking and Software.

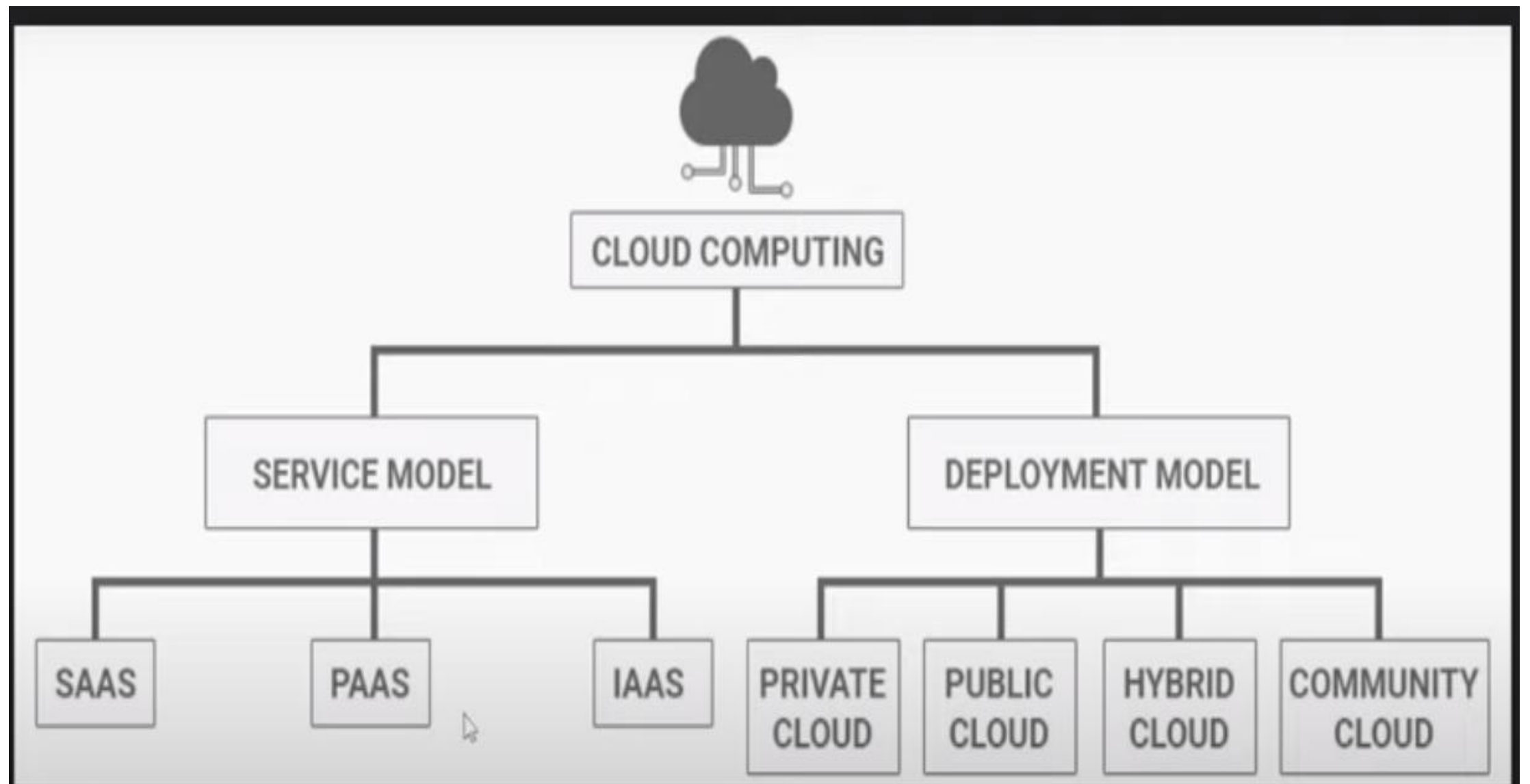
or

It is the processing of accessing the data or application via the internet.

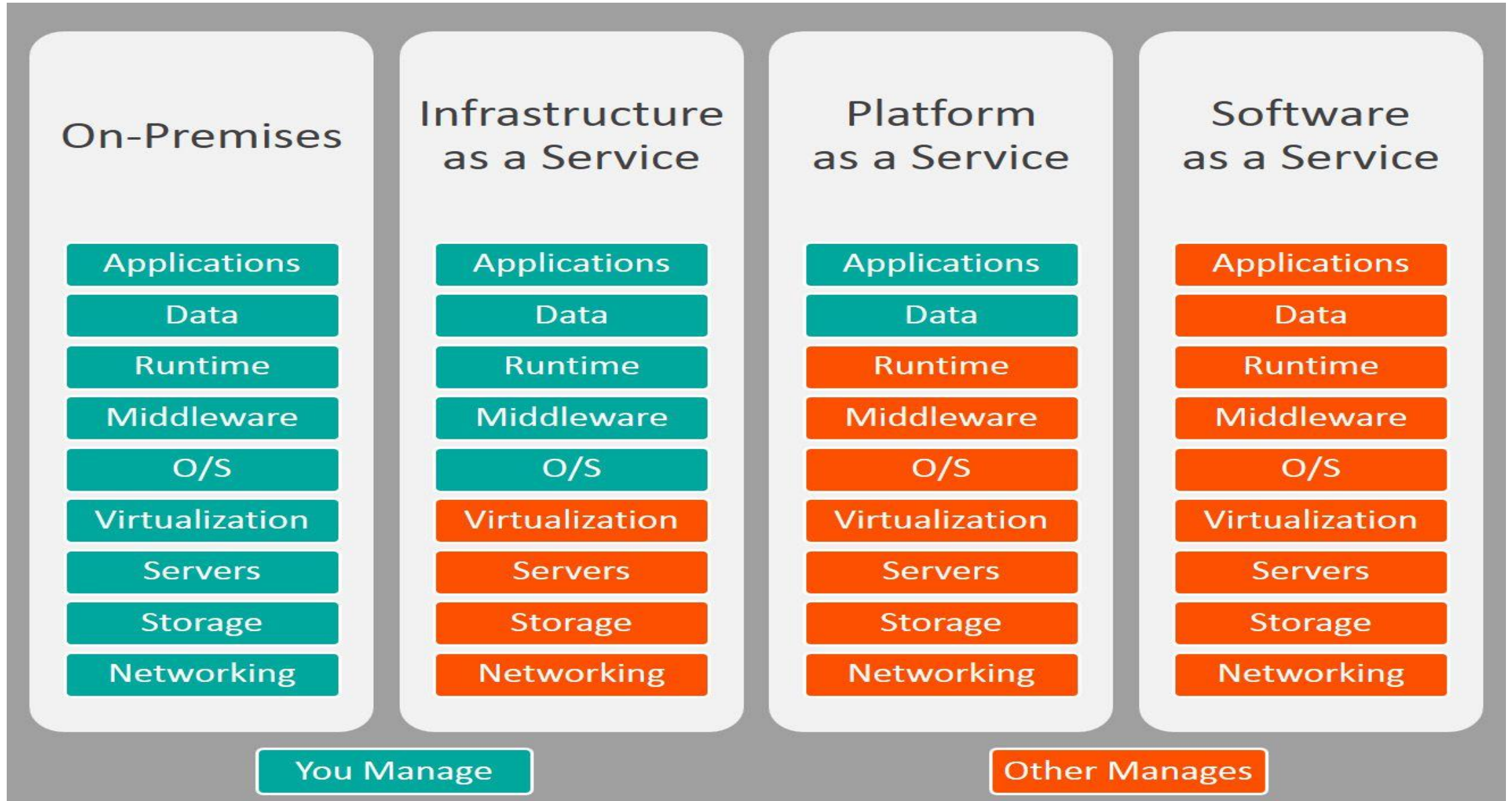


Types of Cloud Computing



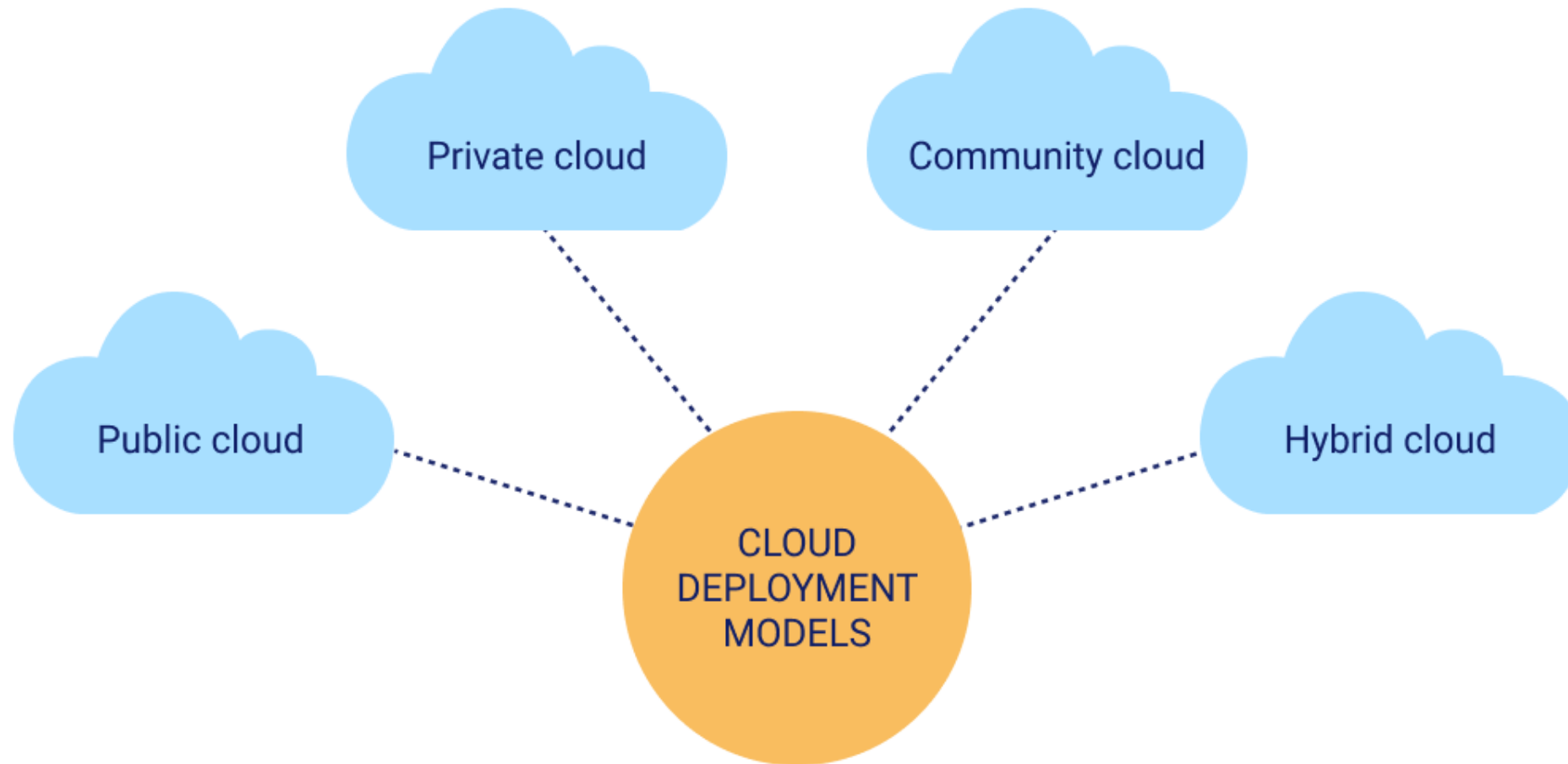


Service Model:



- **Infrastructure as a Service(Iaas):** In this model, the cloud provider offers virtualized computing resources such as virtual machines, storage and networking to customers.
- **Platform as a Service(Paas):** This model provides a Platform for customers to develop, run, and manage their own applications, without having to worry about the underlying infrastructure.
- **Software as a Service(Saas):** This model provides software application that are hosted and managed by the cloud provider, and can be accessed by users over the internet.

Deployment Model:



Public Cloud:

- Public cloud is open to all to store and access information via the Internet. Public clouds are managed by third Parties. In public Cloud, Security will be less when we compared to private and hybrid.



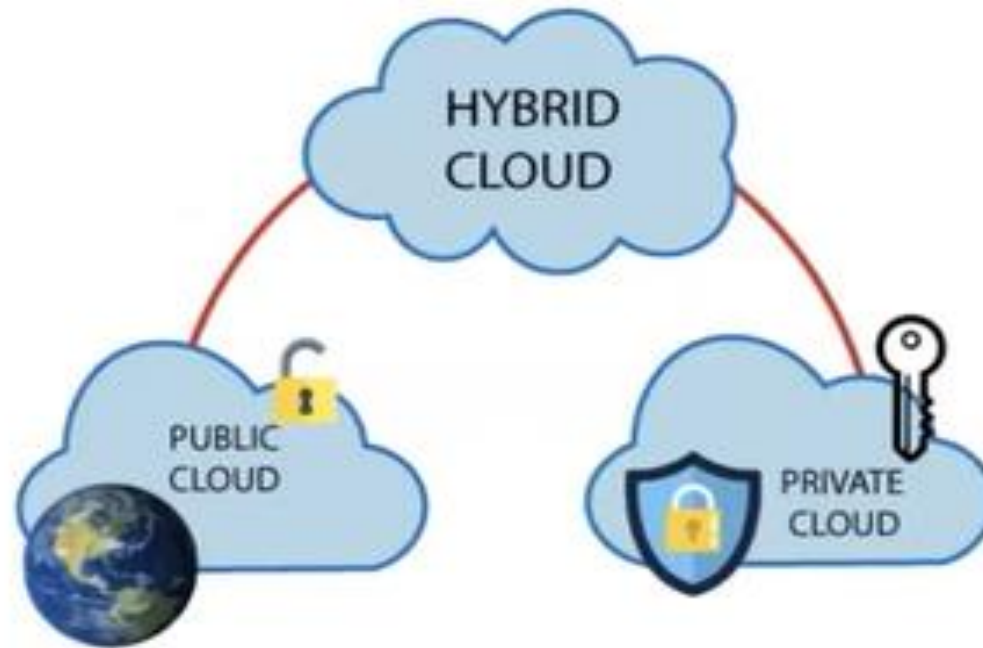
Private Cloud:

- A Private Cloud Is also known as an internal cloud or corporate cloud. It is used by organizations to build and manage their data Centers . In private cloud security will be high.



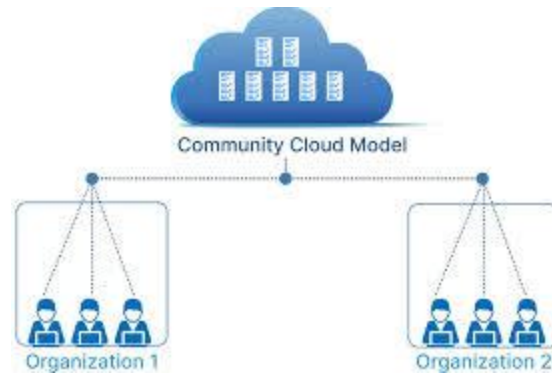
Hybrid Cloud:

- Hybrid cloud is the Combination of both Public and private cloud. If the services are running on public then it will not have much Security. If the services are running on private then the cloud have high Security.



Community cloud:

- It allows multiple Organizations to use some Cloud to store their data.

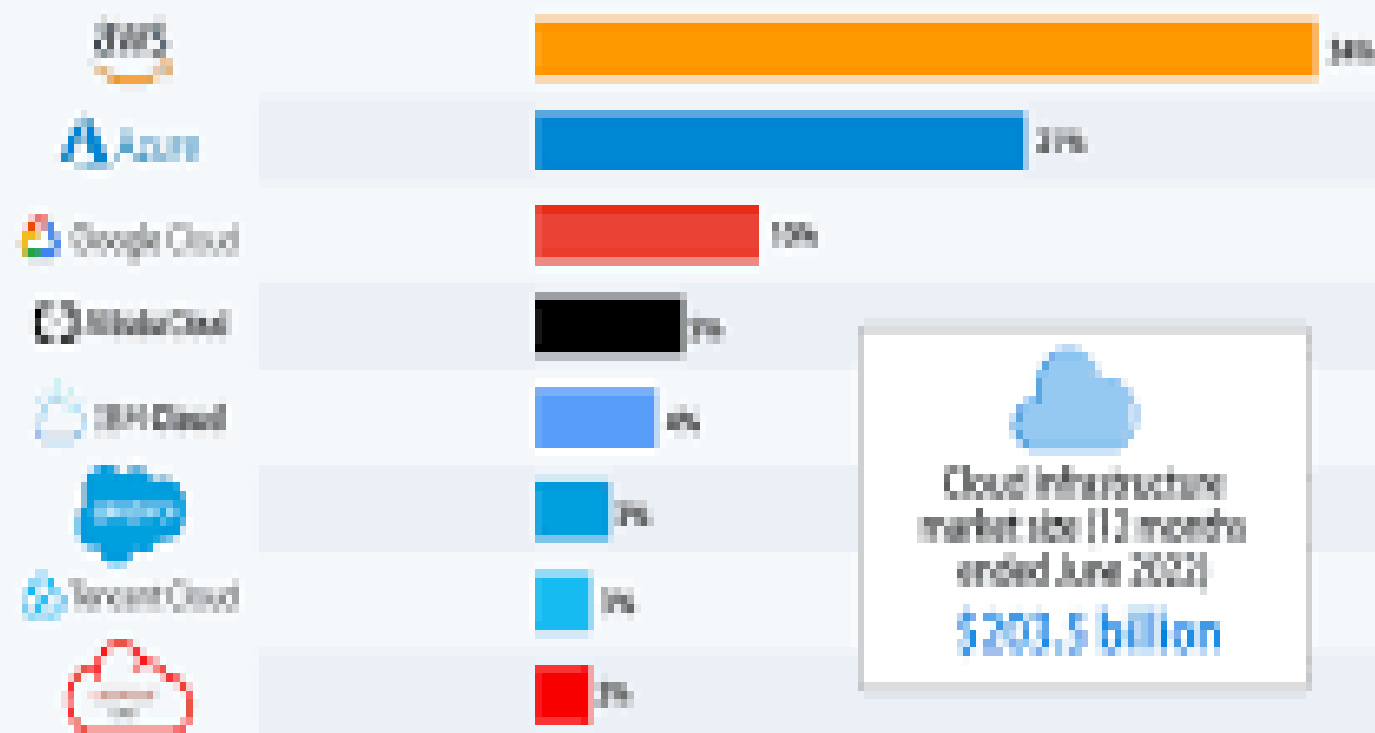


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Amazon Leads \$200-Billion Cloud Market

Worldwide market share of leading cloud infrastructure service providers in Q2 2022*



* Includes platform as a service (PaaS) and infrastructure as a service (IaaS) as well as hybrid private-cloud services.

Source : Synergy Research Group

Cloud infrastructure
market size (12 months
ended June 2022)
\$203.5 billion



statista

WHAT IS



- AWS is abbreviated as Amazon Web Services.
- It is the best cloud provider
- It is the first among all the clouds
- It offers multiple services on different domains.
- It is the combination of SAAS, PAAS, SAAS.
- It is one of the most popular cloud computing platform. Now a days most of the companies are using this cloud because of numerous that allow them to store their data easily without the need for a physical space.

Amazon Web Services List

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Compute



Storage



Database



Migration



Analytics



Developer
Tools



Management
Tools



Media
Services



Security, Identity
& Compliance



Networking &
Content Delivery



Machine
Learning



Mobile
Services



AR & VR



Application
Integration



Customer
Engagement

Source: Gartner

WHY **AWS** IS SO POPULAR?

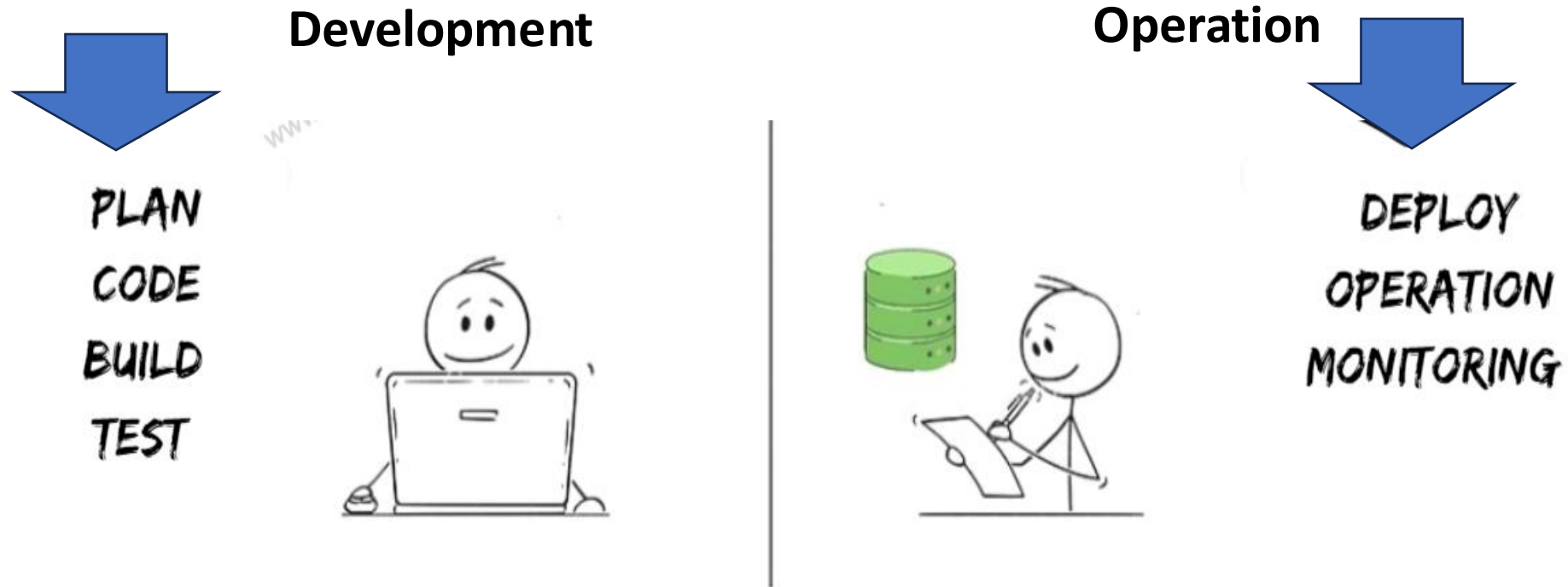
- It follows the Pay as you go, Model.
- It can offer 1000's servers on multiple domains.
- AWS covers about 18 geographic regions and 1 local region around the world.
- The AWS Cloud spans 55 Availability Zones.
- It has 7 years of experience compared to another cloud.
- AWS allows users to select different operating systems, databases, and languages.

ADVANTAGES OF AWS



What is DevOps

- In Software Domain , we have 2 teams for developing the Application.



Development

- The DEV Team writes the code for the entire application and tosses it to operational team for Production.



Operation

The OPS Team Deploys, Monitor Operate & Maintain the application.



DevOps is Not a Tool, technology or Frame Work

- DevOps is a Cultural Movement, mindset, Philosophy to coordinate produce better , more reliable Products
- By automating infrastructure, workflow, and continuously measuring application performance for which they use a lot of tools.