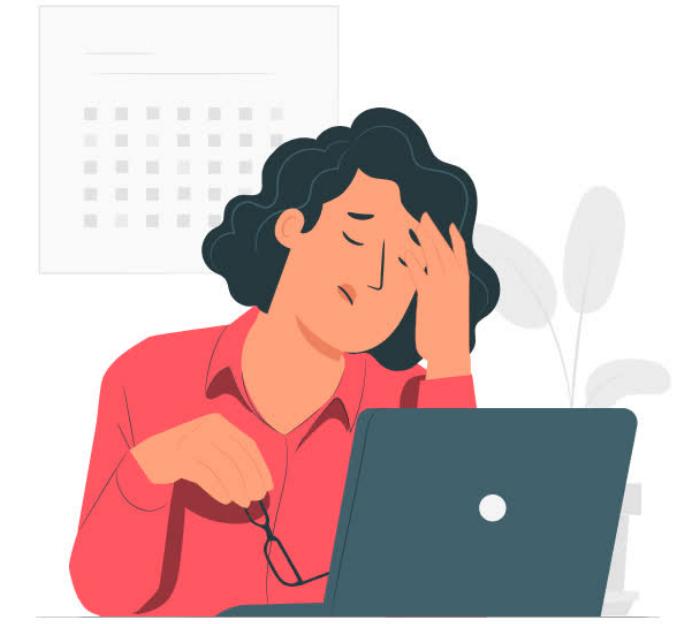


# WHAT IS CLOUD?



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

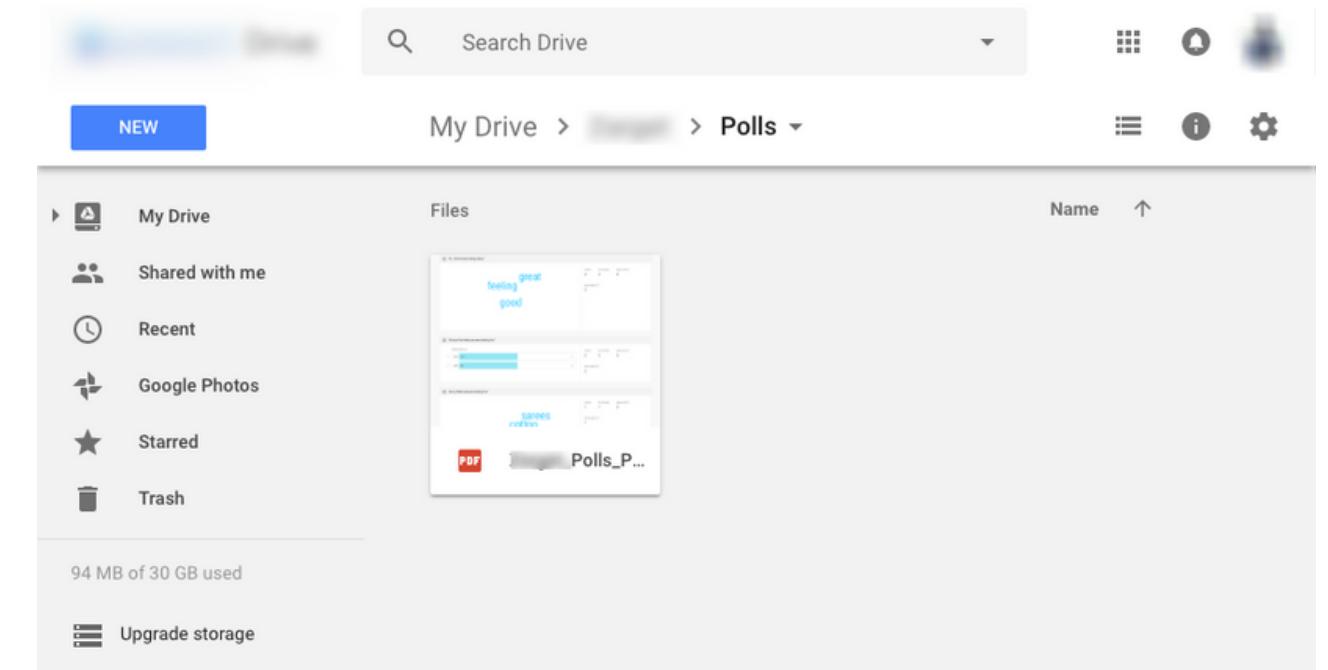
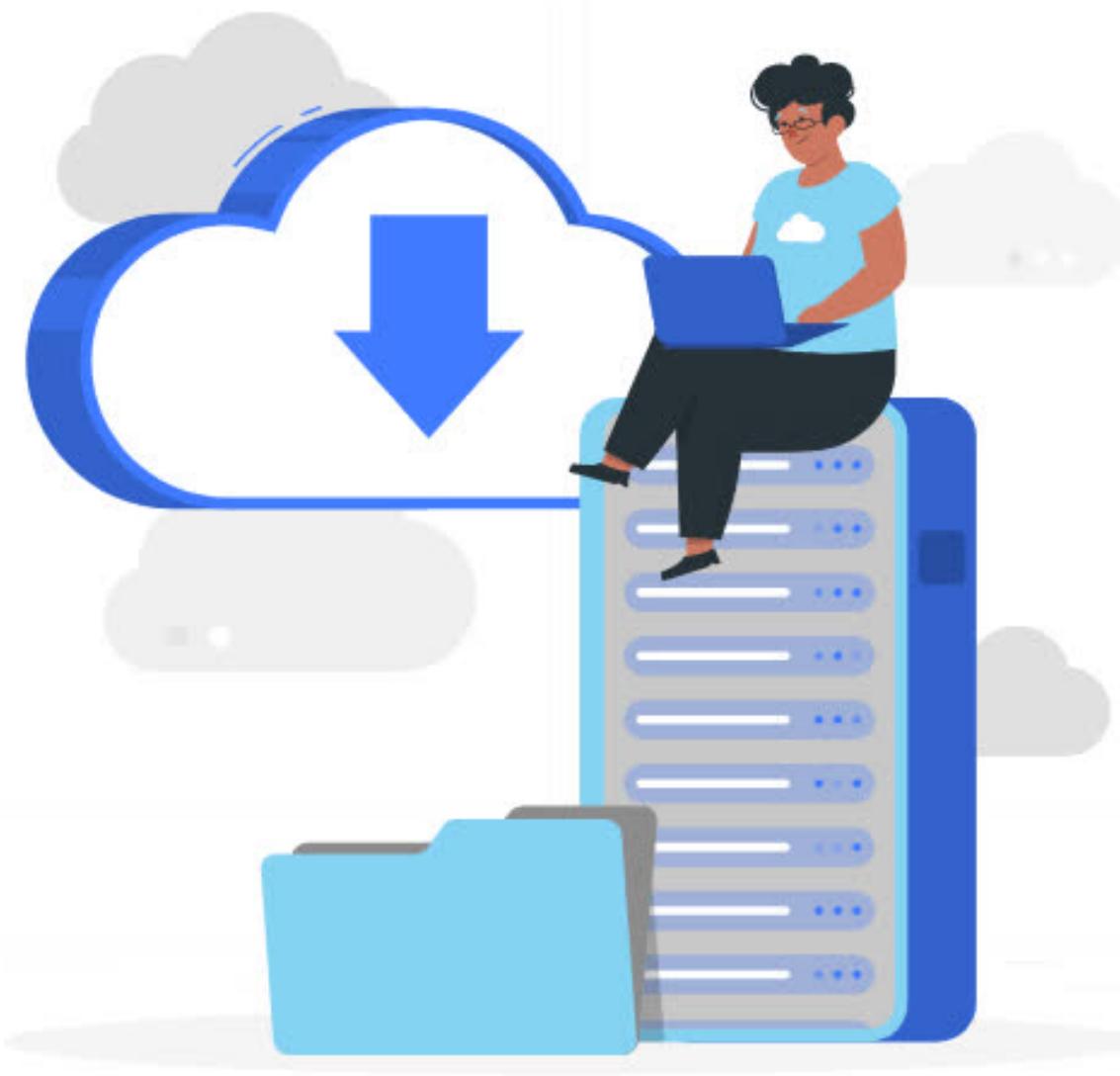
# WHY CLOUD?



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 your 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.**

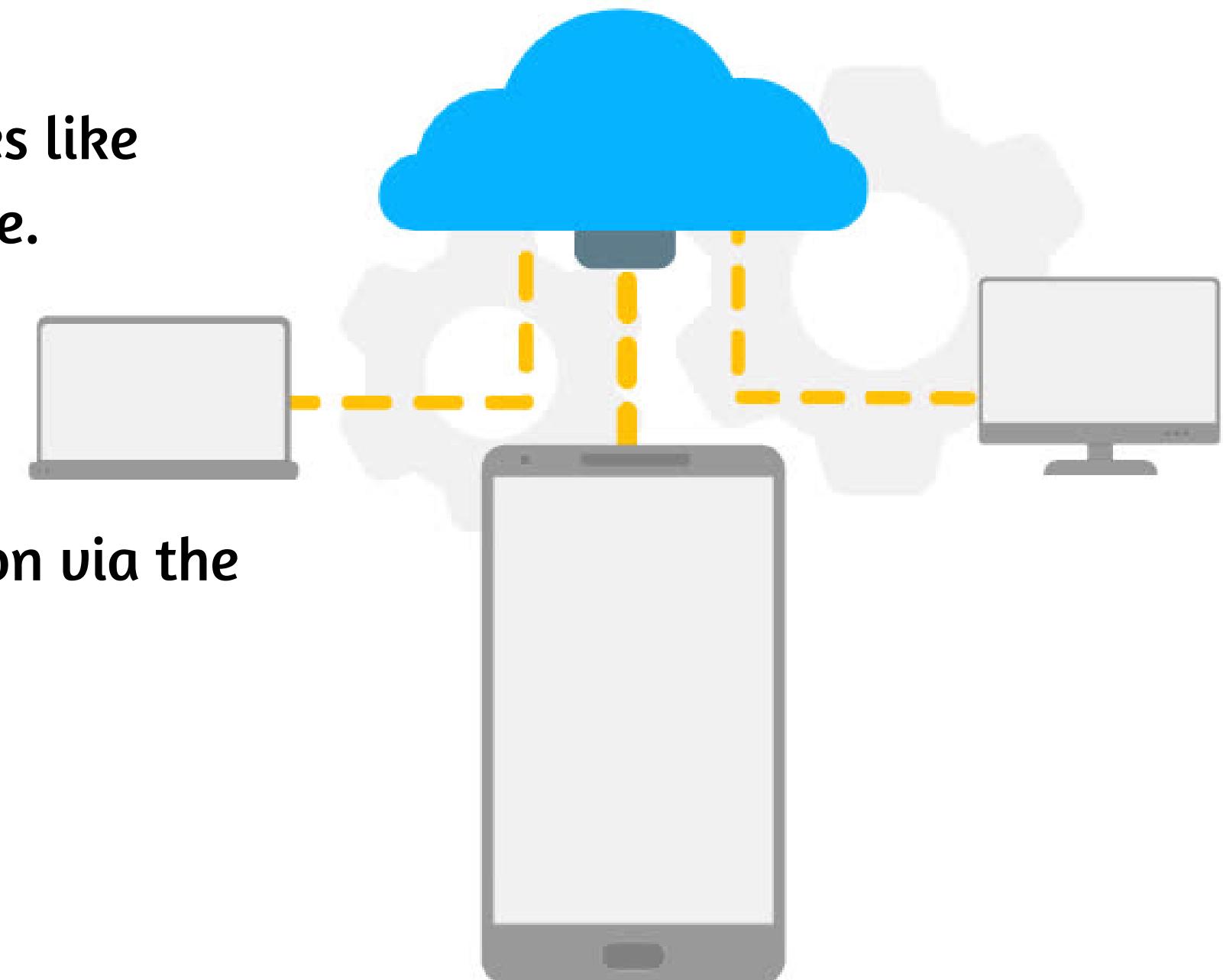


**Now even if you lose your files now, no need to worry about data. Because all your files and folders are securely stored in the cloud.**

# WHAT IS CLOUD COMPUTING

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

or

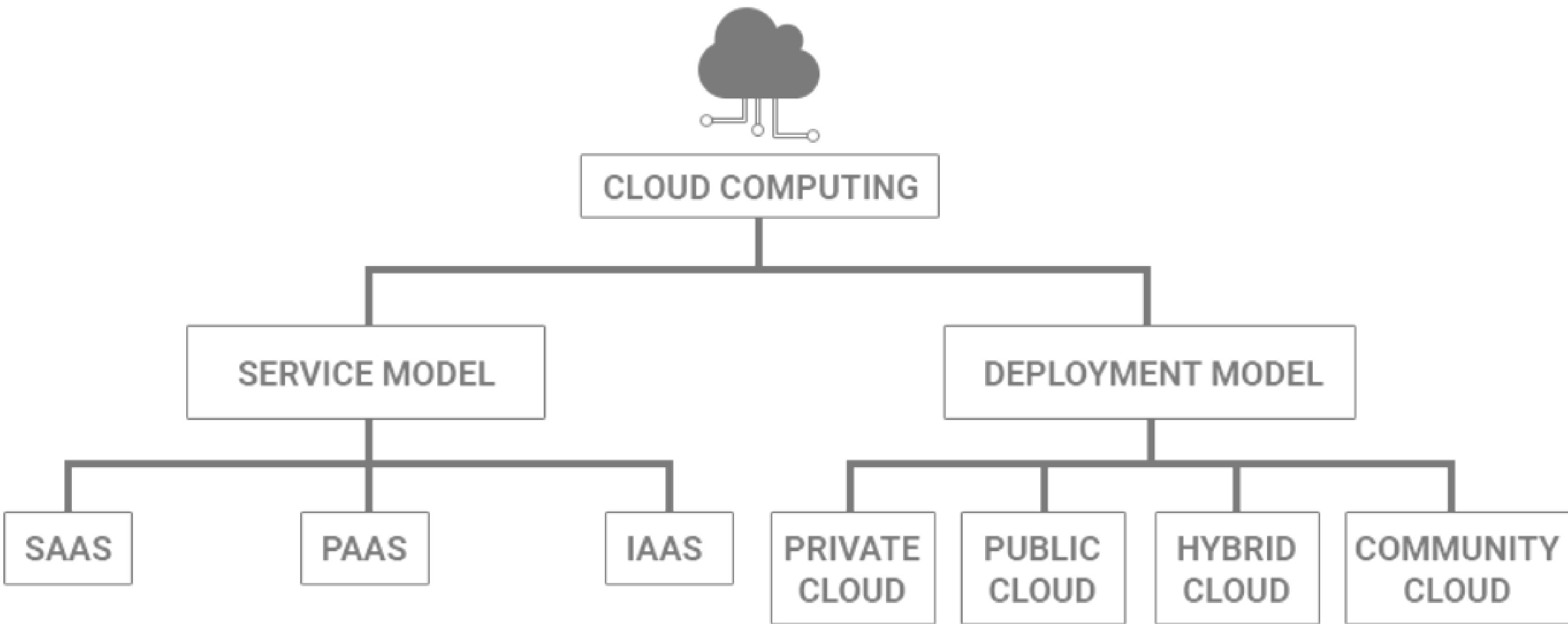


it is the processing of accessing the data or application via the internet

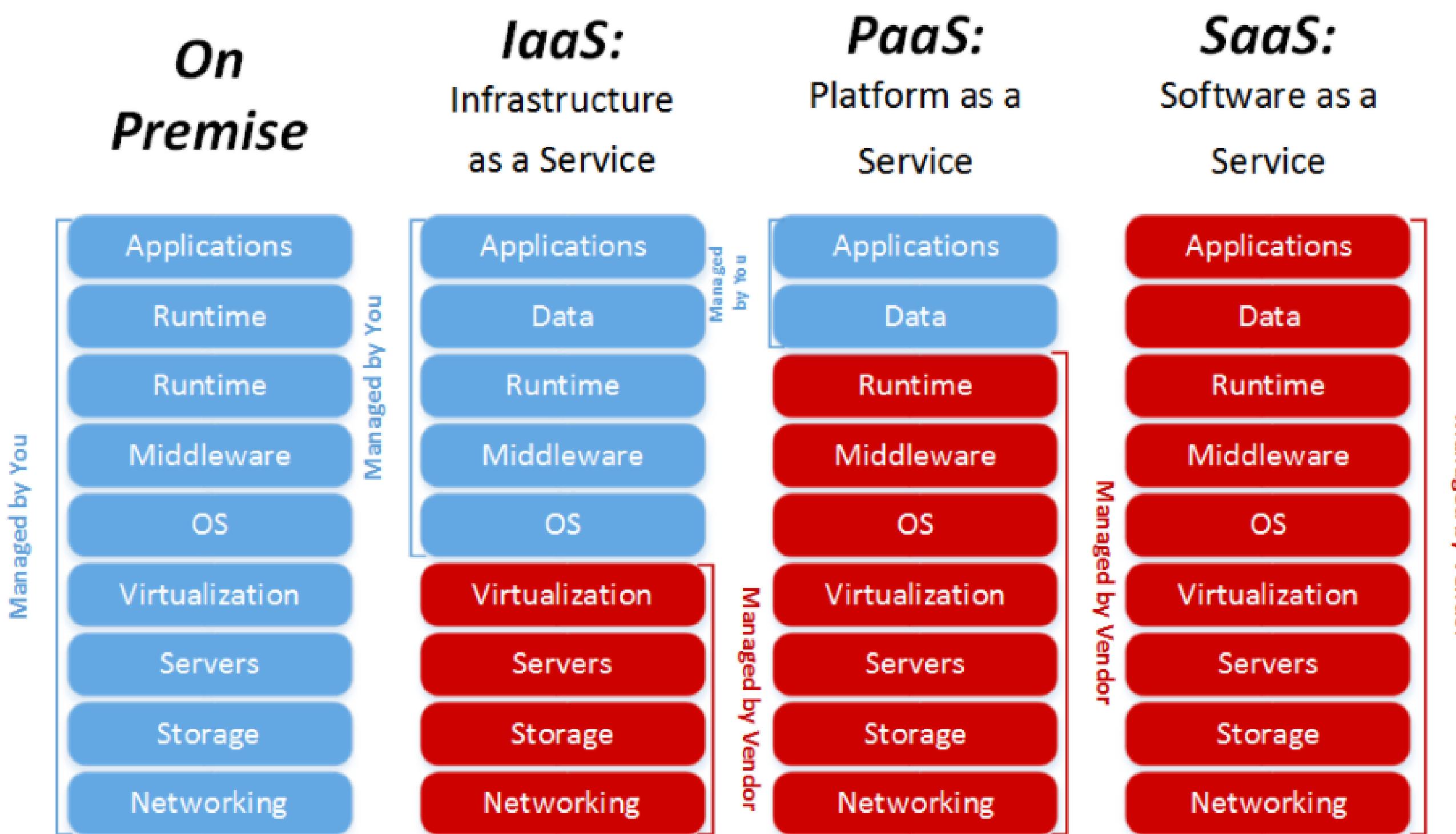
**EX:**

# TYPES OF CLOUD COMPUTING





# **SERVICE MODEL:**



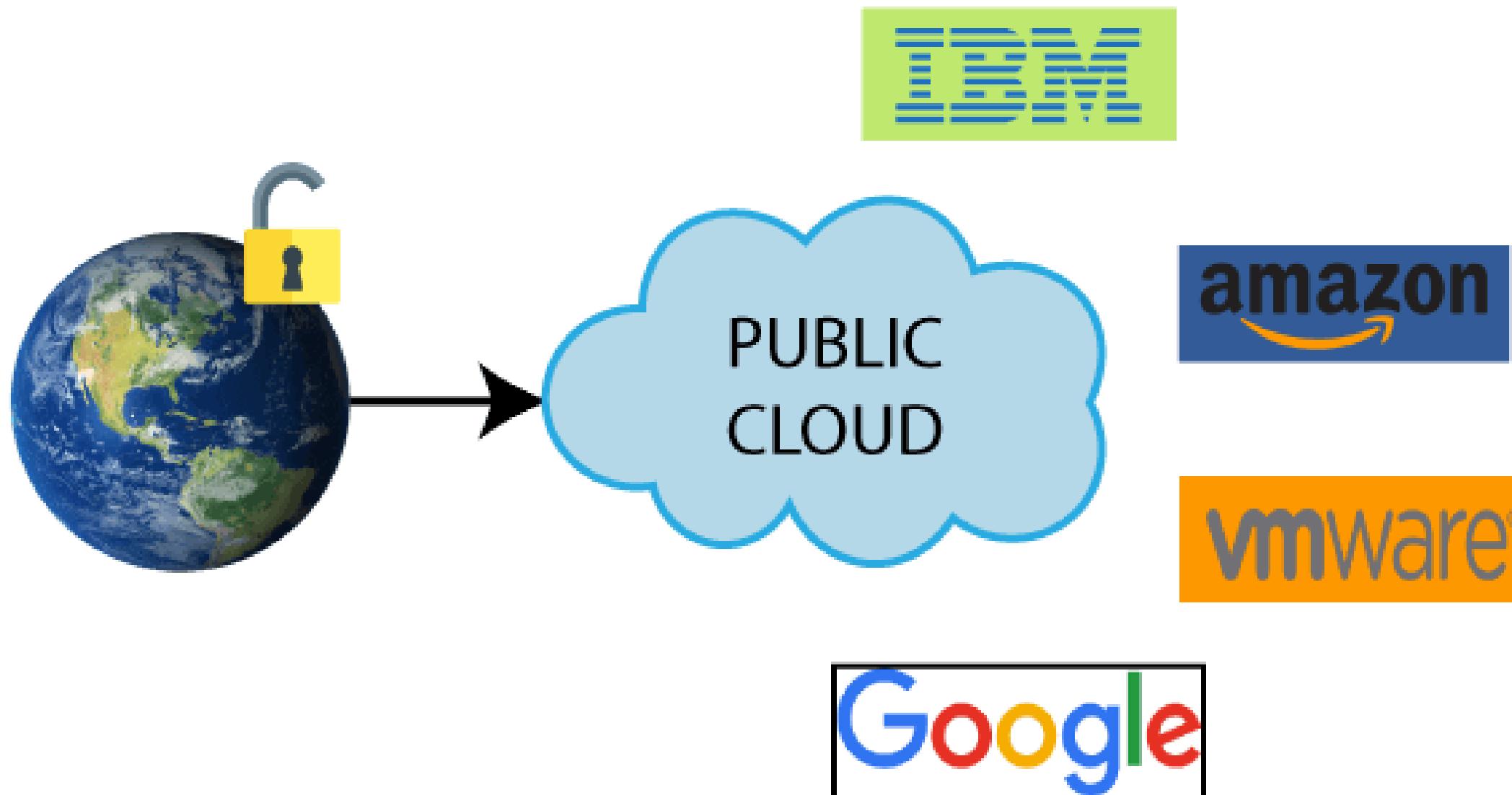
- **Infrastructure as a Service (IaaS):** In this model, the cloud provider offers virtualized computing resources, such as virtual machines, storage, and networking, to customers.  
Ex: [AWS](#) - used for infrastructure provisioned and managed over internet
- **Platform as a Service (PaaS):** This model provides a platform for customers to develop, run, and manage their own applications, without having to worry about the underlying infrastructure.  
Ex: [GoDaddy](#) - Someone manages the Hardware and OS, Someone will take care about security, patching, updates and maintenance. We need to handle the applications only.
- **Software as a Service (SaaS):** This model provides software applications that are hosted and managed by the cloud provider, and can be accessed by users over the Internet.  
Ex: [Gmail](#) - You can manage inbox only, Google takes care of data centers, servers, network, storage maintenance etc .. All you need to worry about software and how you use it

# DEPLOYMENT MODEL:



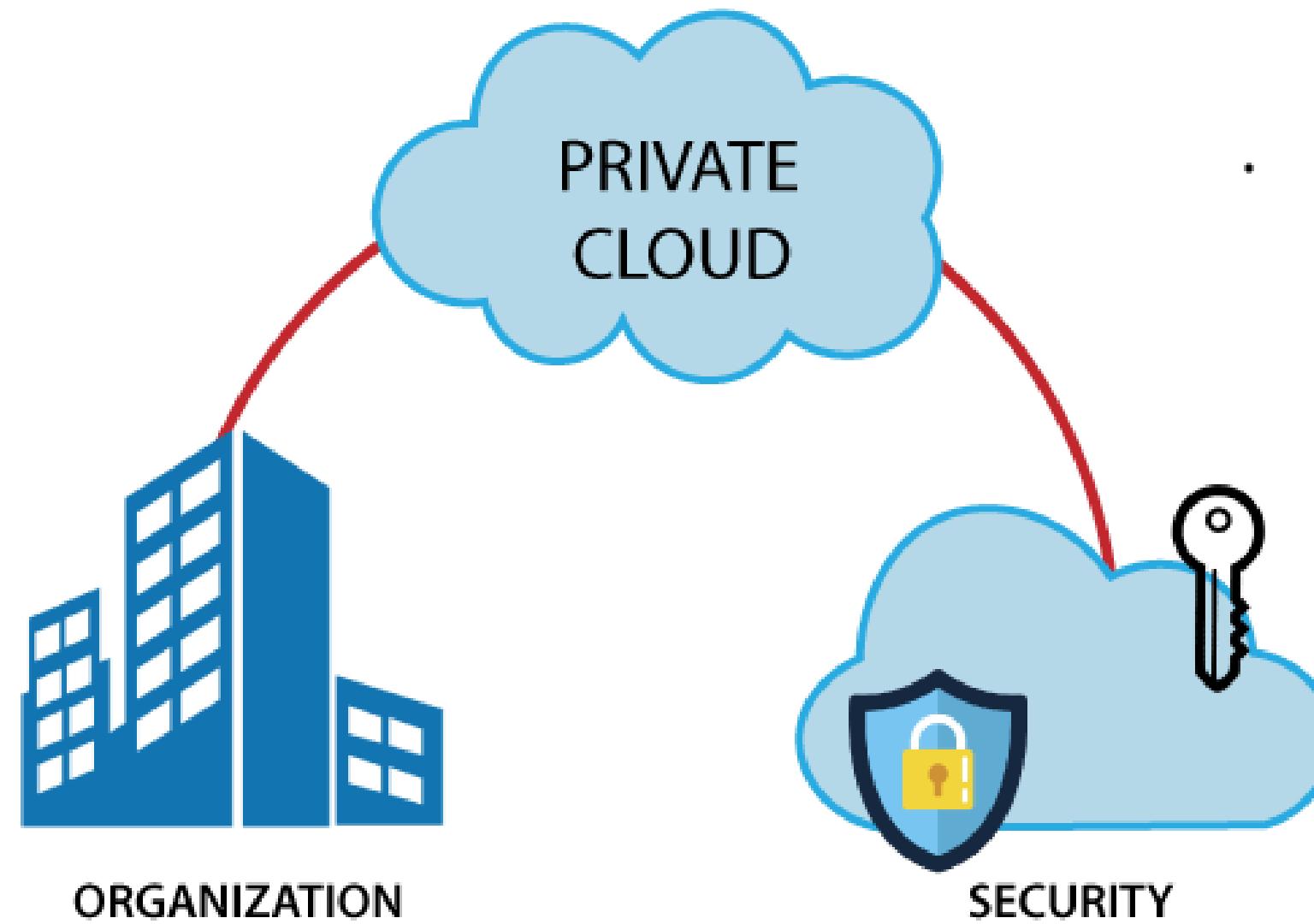
## PUBLIC CLOUD:

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.



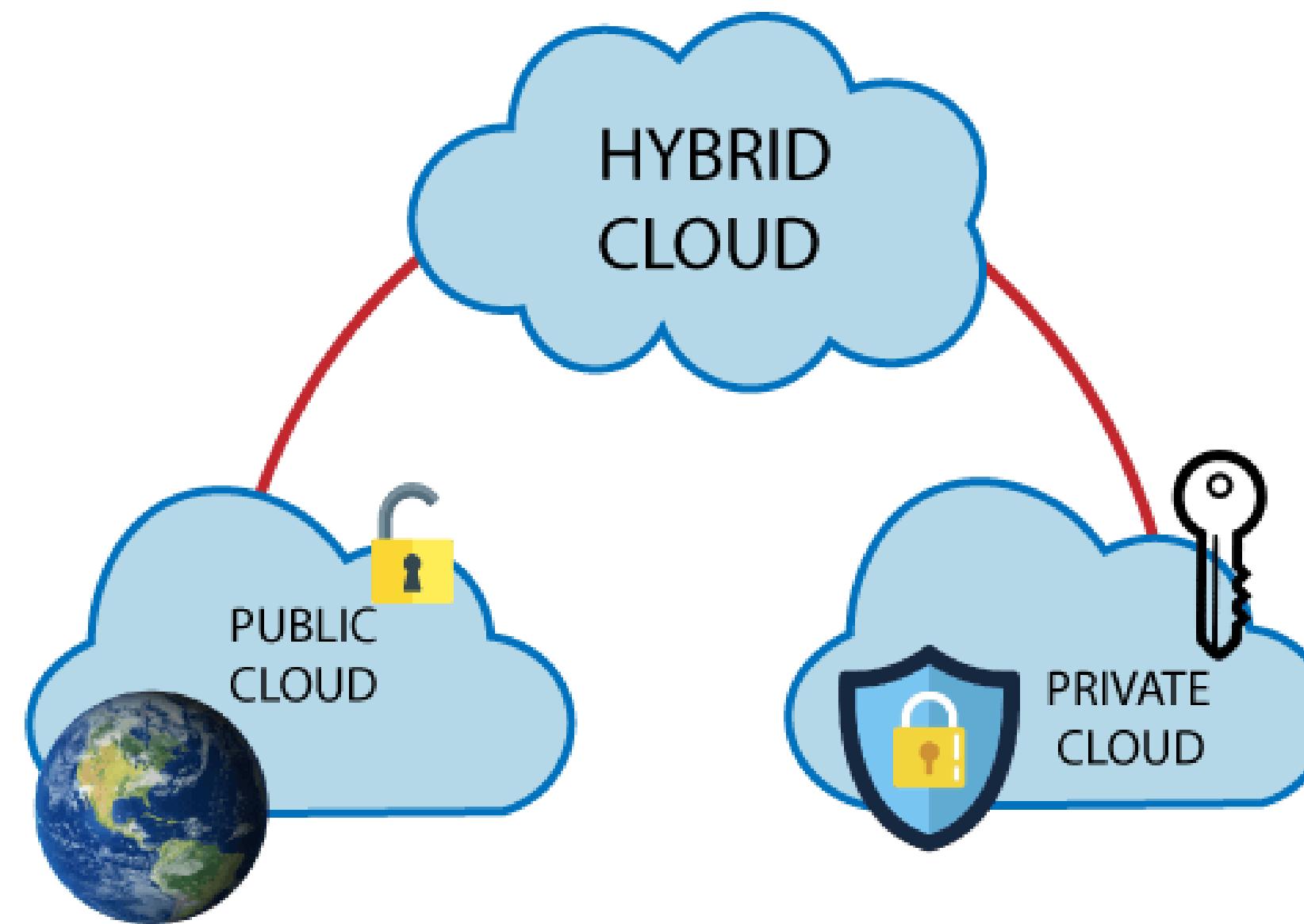
## PRIVATE CLOUD:

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.



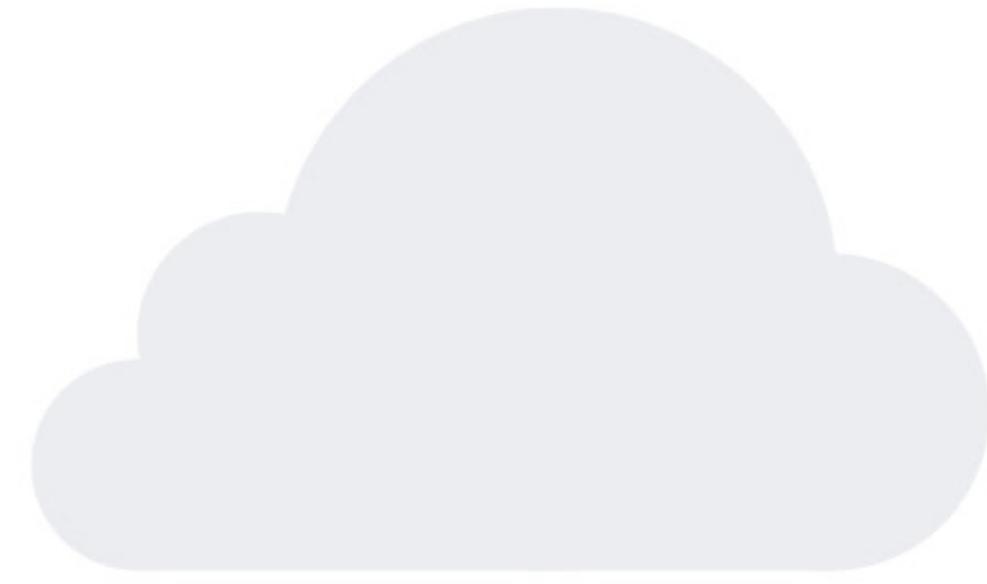
## **HYBRID CLOUD:**

Hybrid cloud is the combination of both public cloud 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 same cloud to store their data.

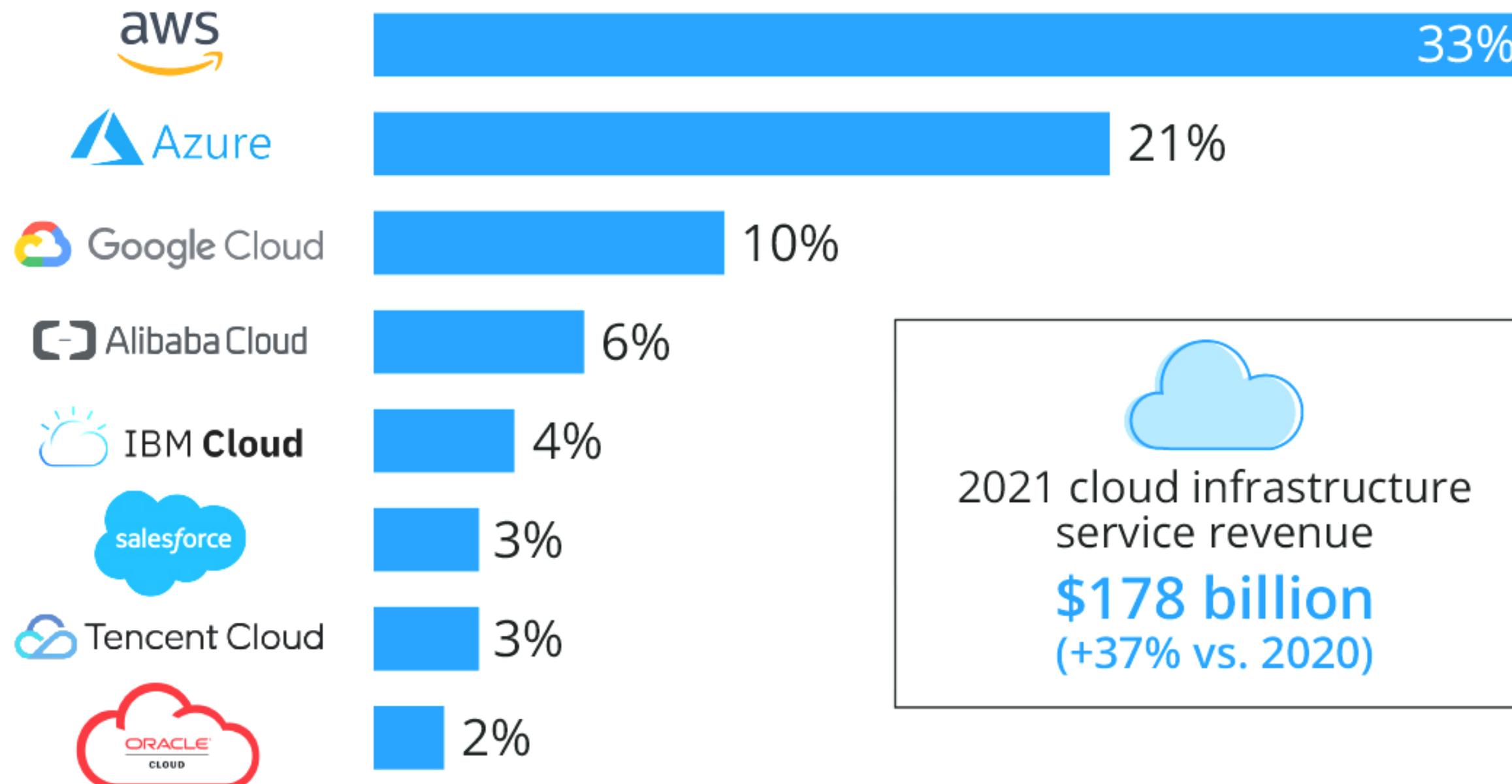


# TOP 10 CLOUD PROVIDERS



# AMAZON LEADS \$-180 BILLION CLOUD MARKET

WORLDWIDE MARKET SHARE OF LEADING CLOUD INFRASTRUCTURE SERVICE PROVIDERS IN Q4 2021\*



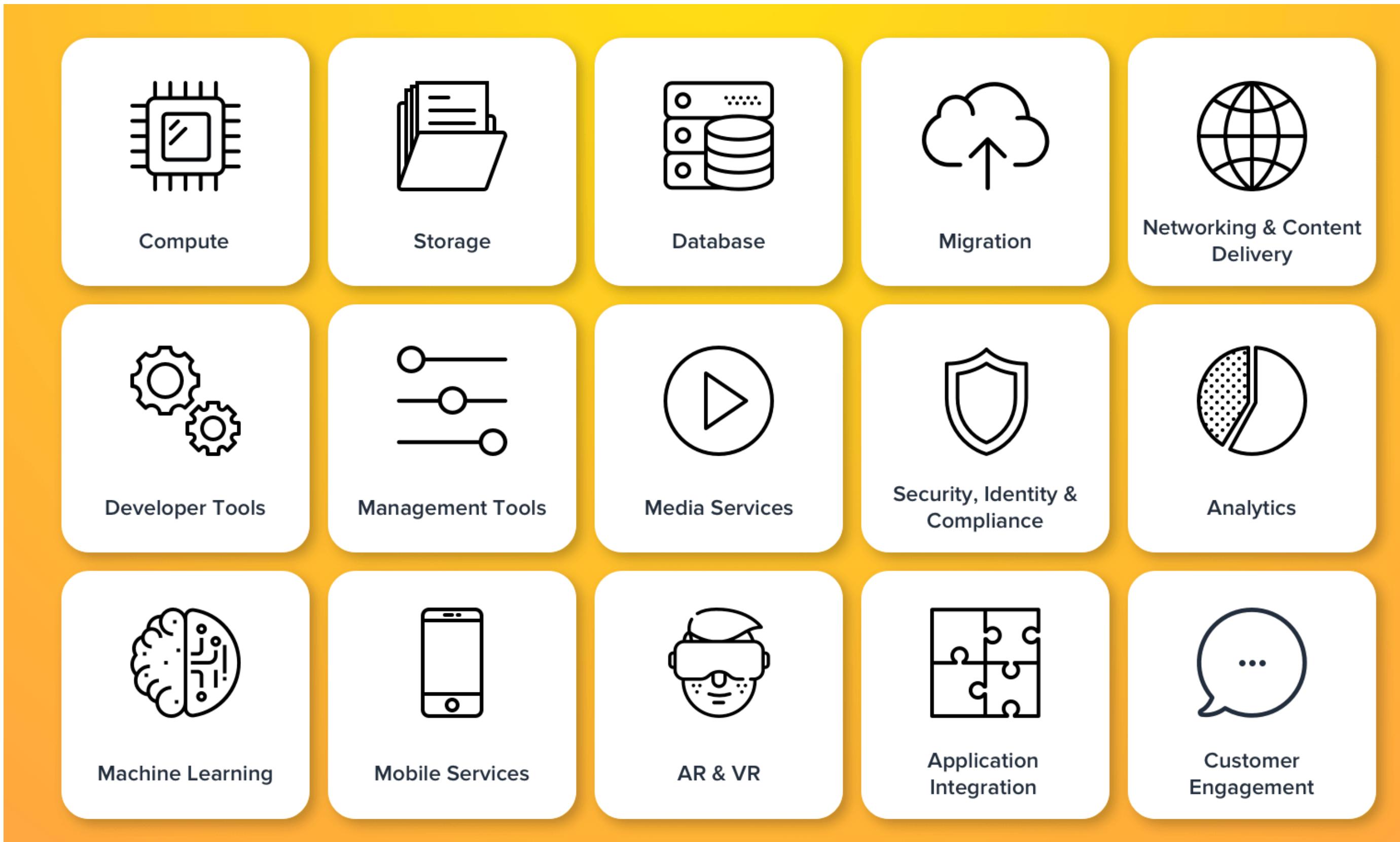
2021 cloud infrastructure service revenue  
**\$178 billion**  
(+37% vs. 2020)

# 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, IAAS.
- 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.

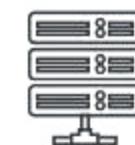
# AWS WEB SERVICES LIST



# WHY AWS IS SO POPULAR?

- AWS provides a wide range of cloud computing services that can be used to build and run applications.
- It can offer 200+ services on multiple domains.
- AWS covers about 31 geographic regions around the world.
- AWS provides a wide range of security features and compliance certifications that help customers to secure their applications and data in the cloud.
- The AWS Cloud spans 99 Availability Zones.
- It has 7 years of experience compared to another cloud.
- AWS allows users to select different operating systems, databases, and languages.
- It follows the Pay as you go, Model.

# KEY TERMS:



## "AVAILABILITY ZONE "



..aka "Data Center"

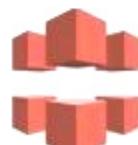


## "REGION"



..aka "Geographical Area"

*\*\*Each Region consists of  
2 or more availability zones*



## "EDGE LOCATION"



...aka "AWS Endpoint  
used to cache content"

*\*\*Reduces latency to end user*

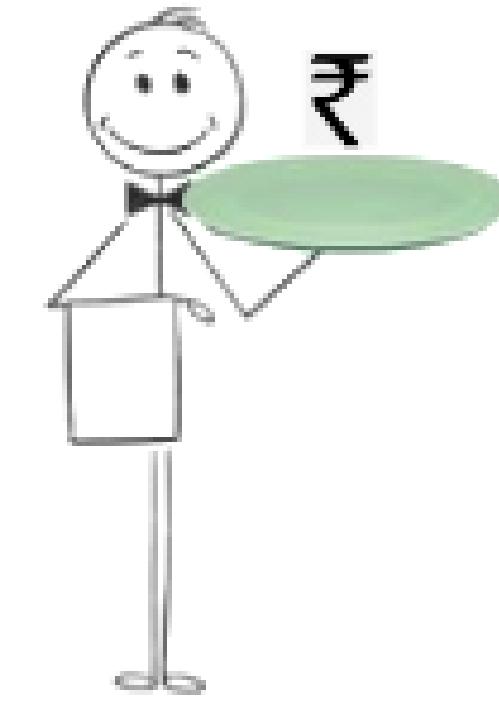
# PAY AS YOU GO MODEL



IF YOU GO TO BARBIQUE  
NATION RESTURANT



AND ATE ONLY 1 PLATE  
OF BIRYNI



SERVER ASKS YOU TO PAY  
800RS

# INSTEAD

IF YOU GO TO NORMAL  
RESTURANT THEY WILL  
CHARGE WHAT EVER YOU  
ORDER

ITEM	PRICE
BIRYANI	\$60.00
STARTERS	\$65.00
MILK SHAKES	\$80.00



# ADVANTAGES OF AWS



# AWS CERTIFICATIONS

## Available AWS Certifications

aws certified  
Updated May 2019

### Professional

**Two years** of comprehensive experience designing, operating, and troubleshooting solutions using the AWS Cloud



### Associate

**One year** of experience solving problems and implementing solutions using the AWS Cloud



Architect

Operations

Developer

### Foundational

**Six months** of fundamental AWS Cloud and industry knowledge



### Specialty

Technical AWS Cloud experience in the Specialty domain as specified in the [exam guide](#)

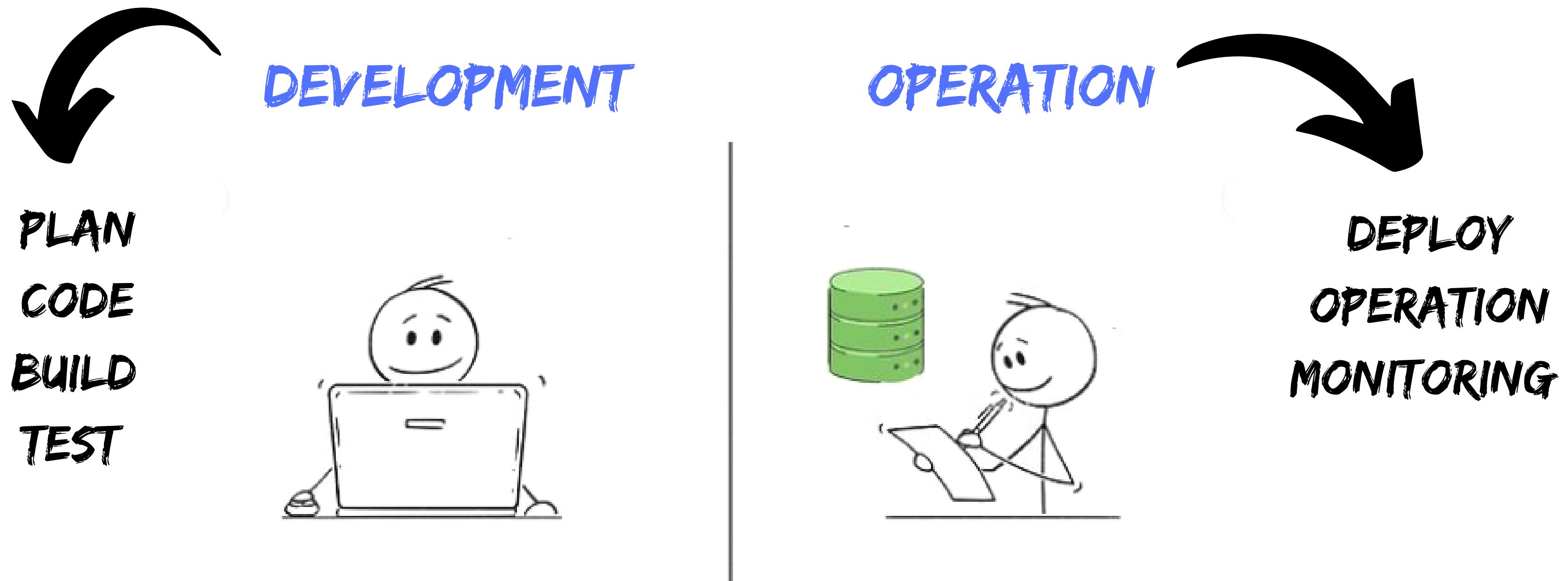




*Thank You*

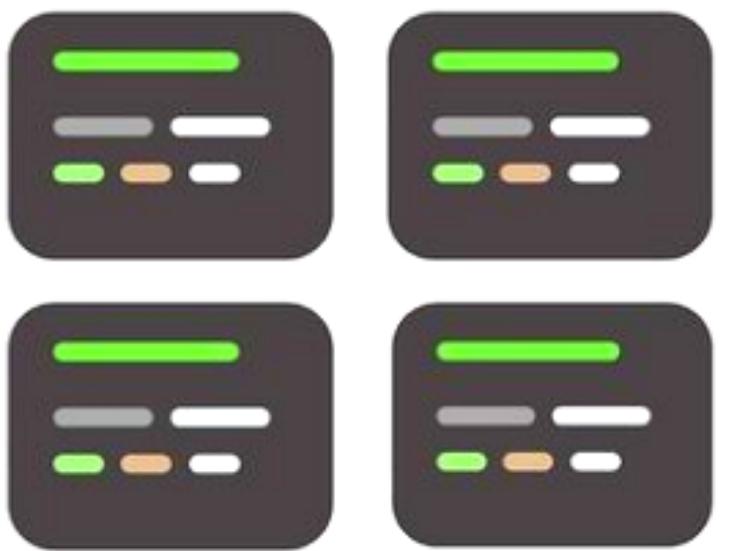
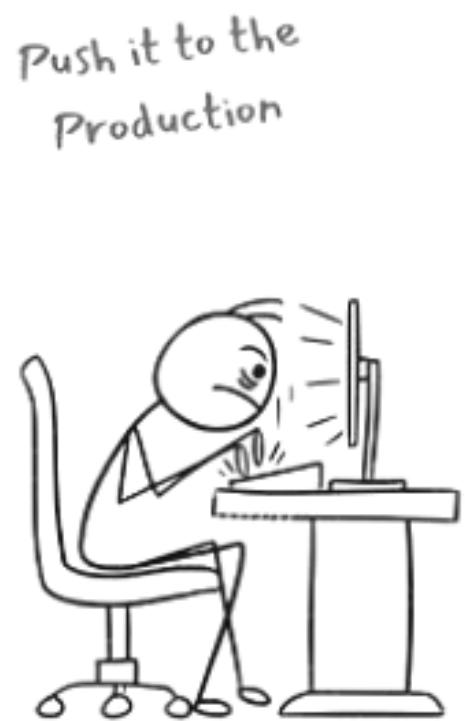
# WHAT IS DEVOPS

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



# OPERATIONAL

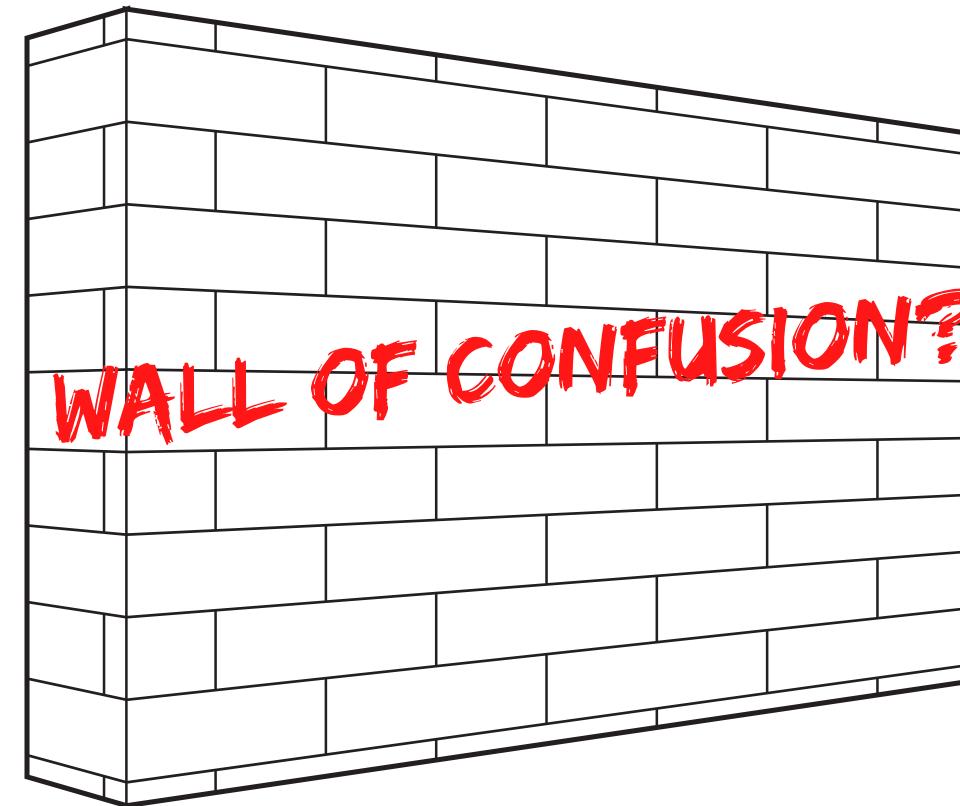
THE OPS TEAM DEPLOYS, MONITOR OPERATE & MAINTAIN THE APPLICATION



**DEV TEAM**

**OPS TEAM**

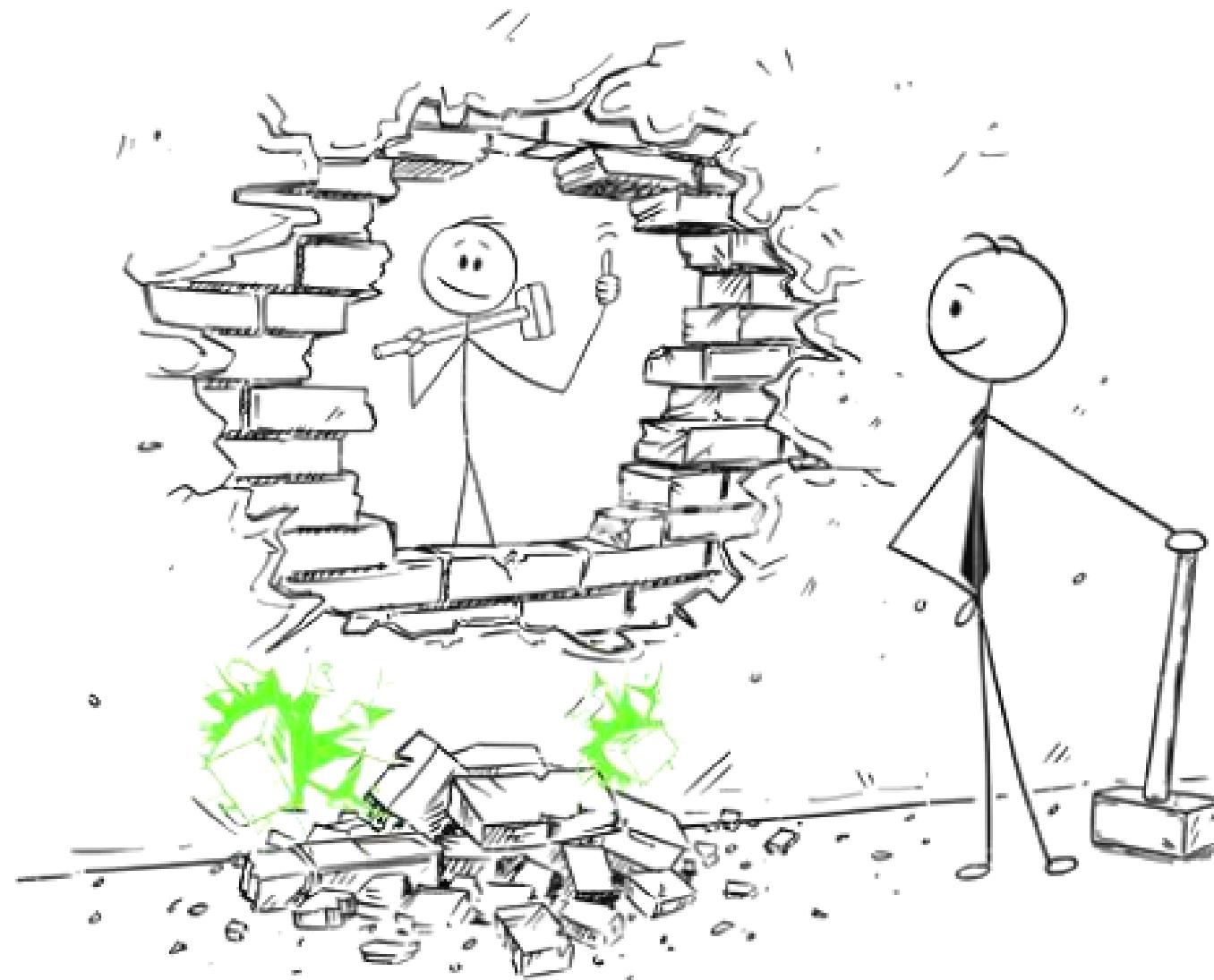
I Have given you the  
right code



I have deployed the  
code you given to me



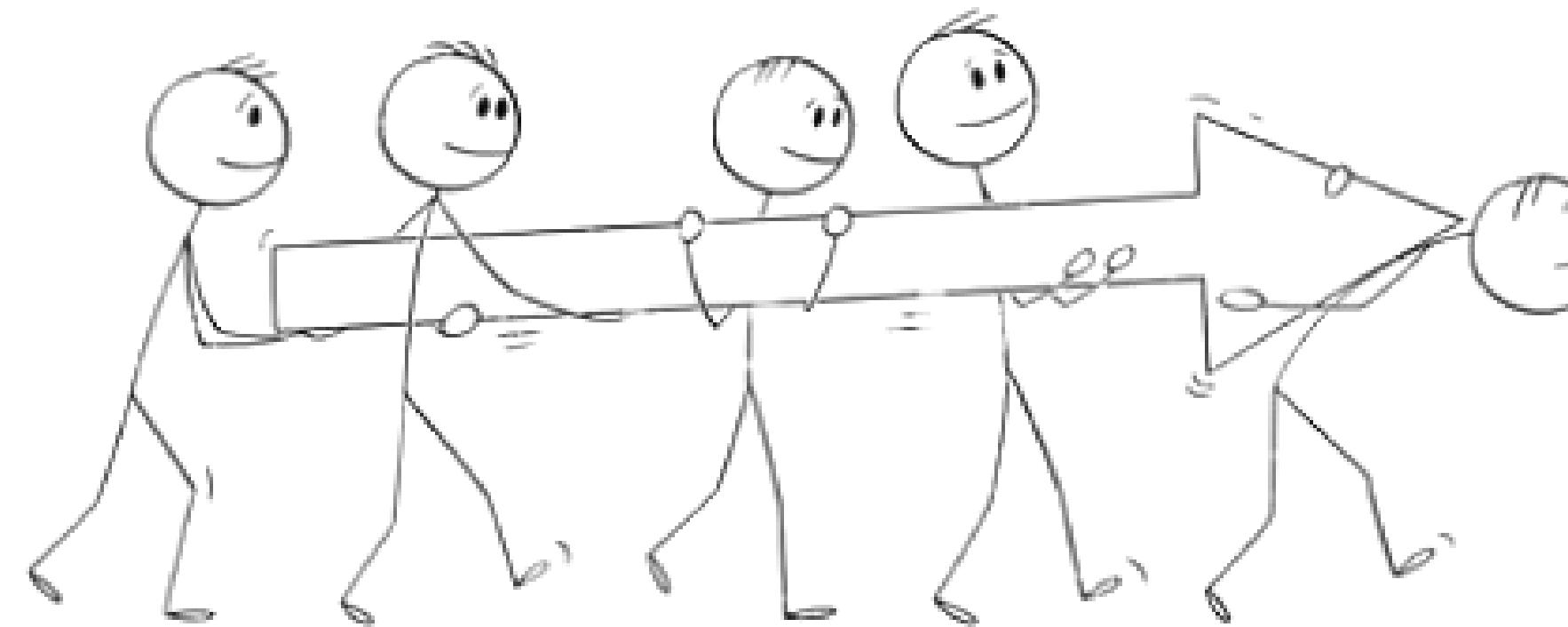
# SO WHAT IF WE BREAK THE WALL?



THAT IS DEVOPS ---> DEV + OPS

# **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**

# DEVOPS LIFE CYCLE

The Logo of DevOps represents infinite because its a never ending continuous process

