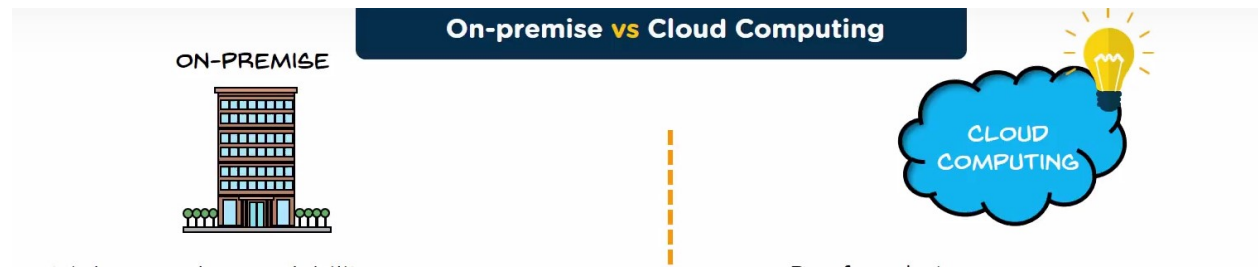


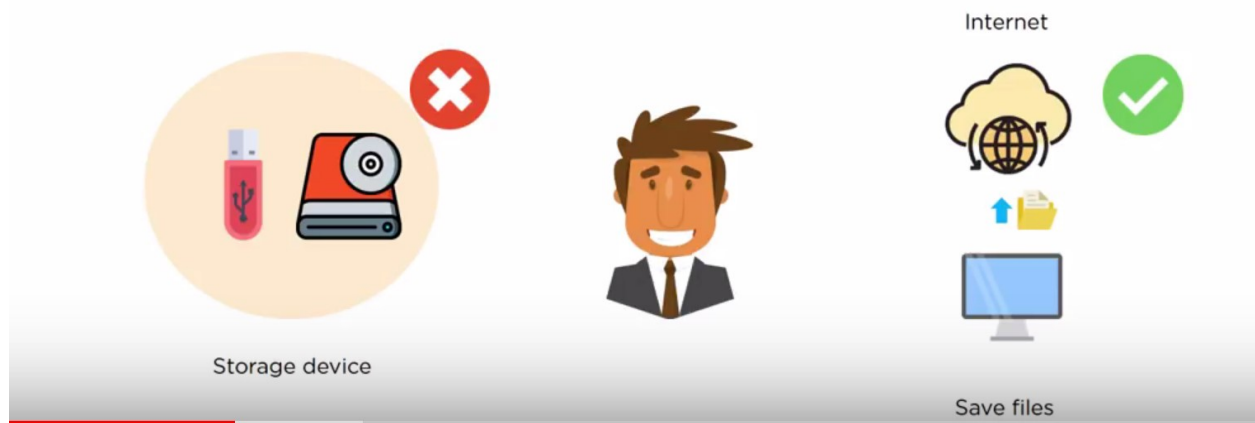
Why Cloud computing ?



<ul style="list-style-type: none">• Higher pay , less scalability	<ul style="list-style-type: none">• Pay what you use• Scale up = pay more• Scale Down = pay less
Allot huge space for servers	No server space required
Appoint a team or hardware and software maintainece	No Experts requires for hardware and software maintenance
Poor data security	Better data security
Less chance of data recovery	Disaster recovery
Lack of security	High Flexibility
No Automatic updates	Automatic software updates
Less collaboration	Team can collaboration from widespread locations
Takes longer implementation time	Rapid implementation
Data cannot be accessed remotely	Data can be accessed and shared anywhere over the internet

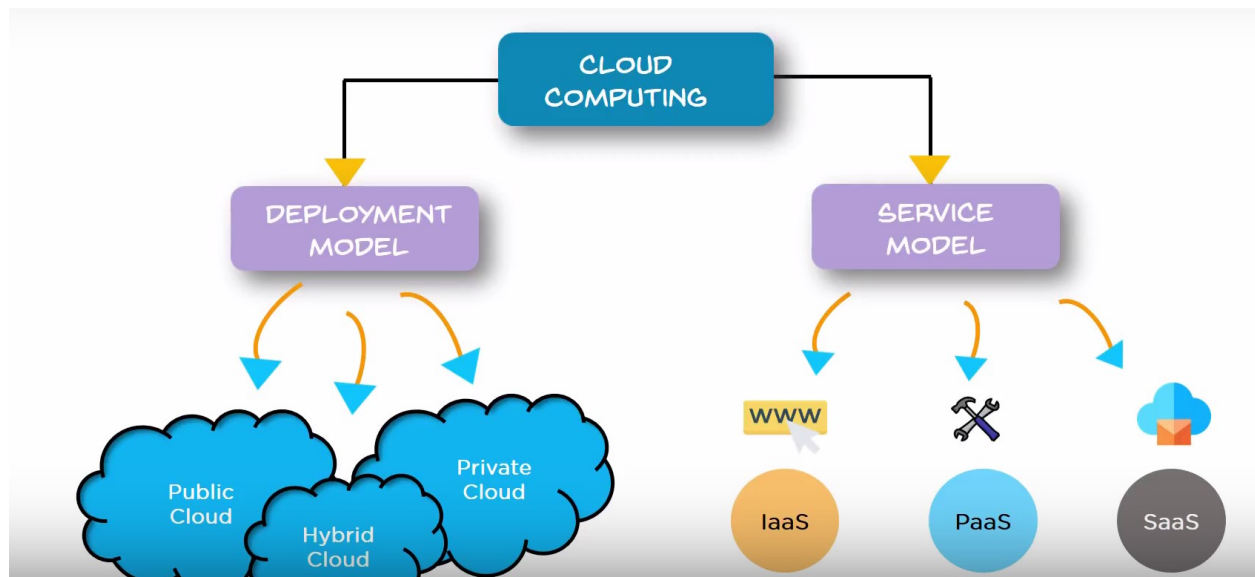
What is Cloud Computing ?

Rather than managing files on a local storage device , cloud computing makes it possible to save then over the internet



Types of Cloud computing ?

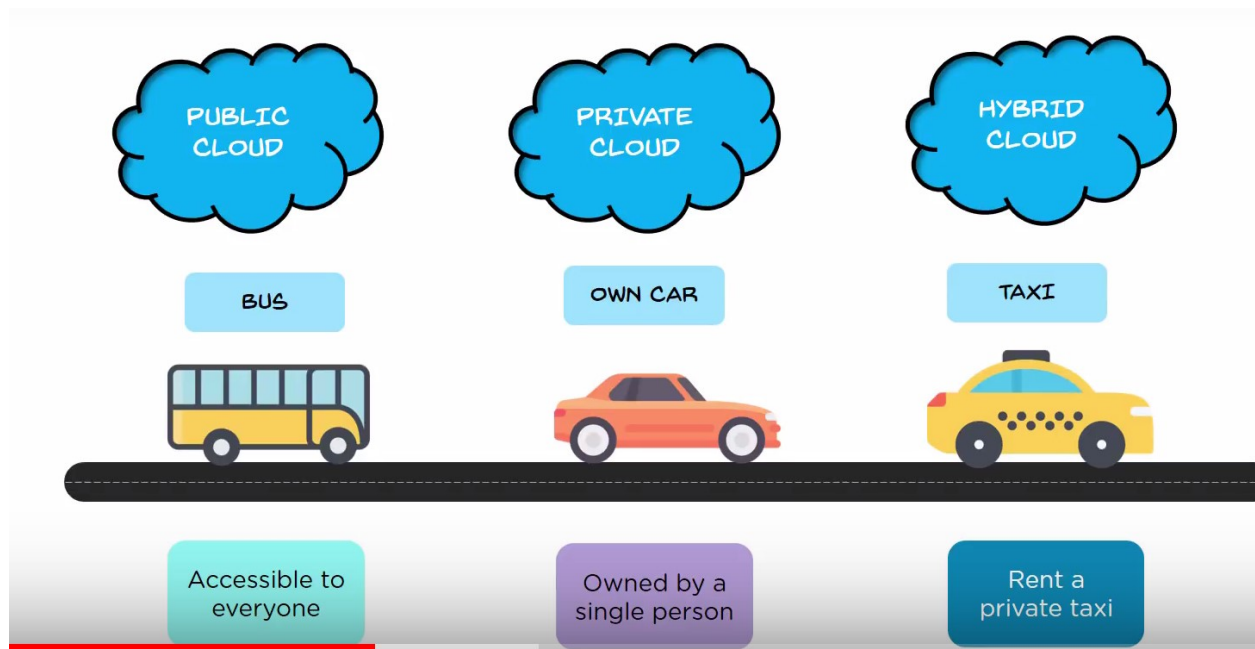
1. Deployment Model
2. Service Model



Deployment Model

1. Public cloud
2. Hybrid cloud

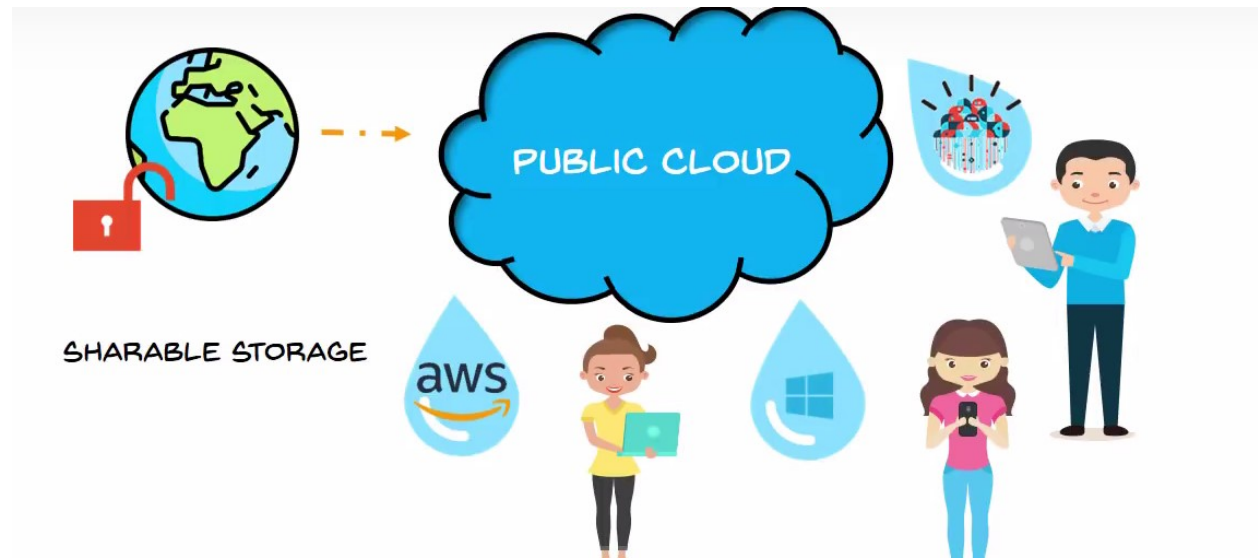
3. Private cloud



Public Cloud

The Cloud infrastructure is made available to the general public over the internet and is owned by a cloud provider

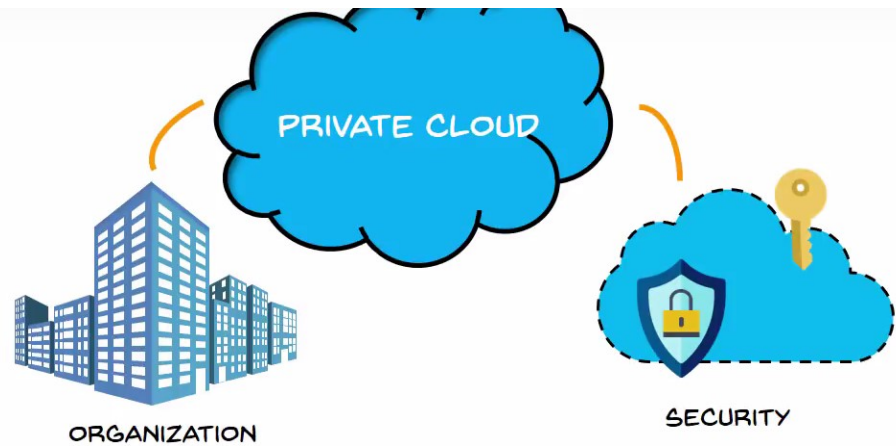
Eg : AWS , Microsoft Azure, IBM Blue cloud and Sun cloud



Private Cloud

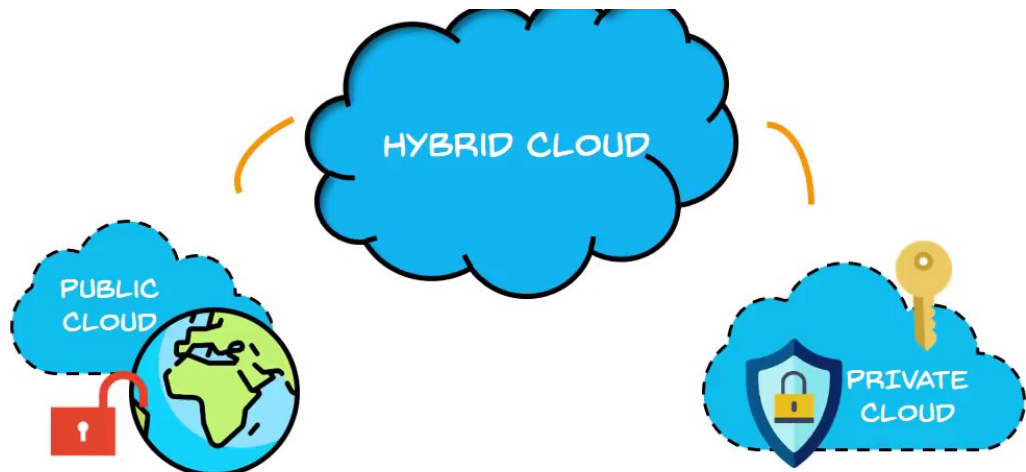
The cloud infrasture is exclusively operated by a single organization , it can be managed by the Organization or a third party and may exist on premise or off-premise

EG : AWS, VMware

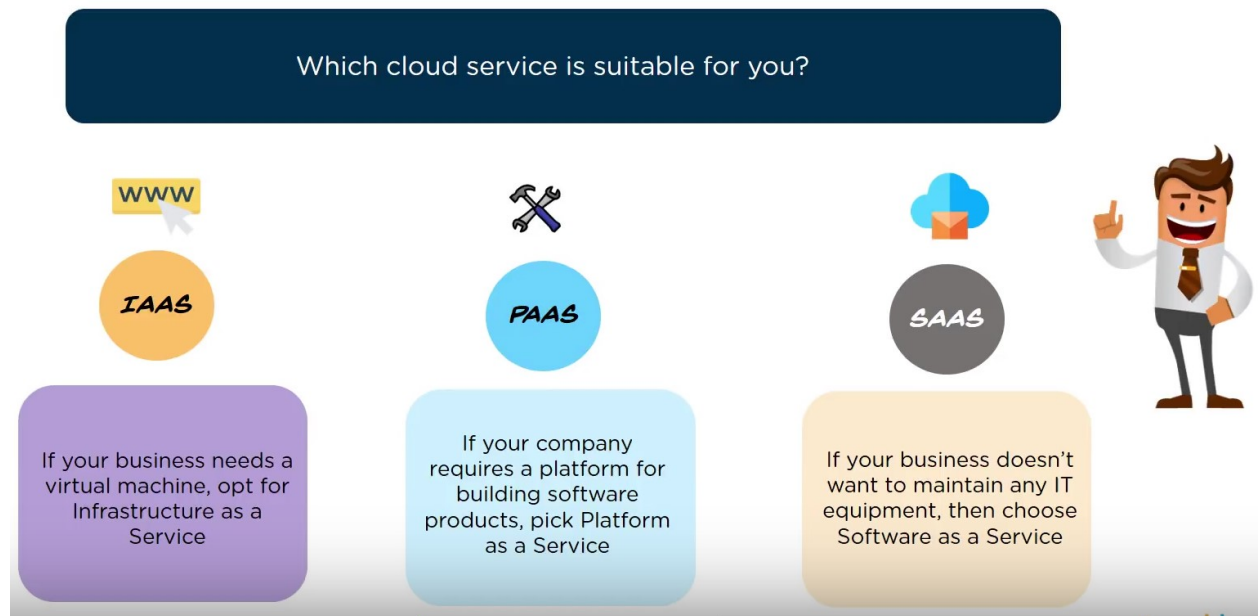


Hybrid Cloud

This consists the functionality of both private and public
EG: Federal agencies



Types of Service model




Difference between IAAS , PAAS , SAAS


On-Premises	IaaS	PaaS	SaaS
Applications Data Runtime Middleware O/S Virtualization Servers Storage Networking	Applications Data Runtime Middleware O/S Virtualization Servers Storage Networking	Applications Data Runtime Middleware O/S Virtualization Servers Storage Networking	Applications Data Runtime Middleware O/S Virtualization Servers Storage Networking
Managed by you	Managed by Vendor	Managed by Vendor	Managed by Vendor

IAAS

IAAS PRODUCTS AND SERVICES



A hand is pointing at the bottom of the smartphone screen.




IaaS


- ✓ IaaS is a cloud service that provides basic computing infrastructure
- ✓ Services are available on **PAY-FOR-WHAT-YOU-USE** model
- ✓ IaaS providers include Amazon Web Services, Microsoft Azure and Google Compute Engine
- ✓ Users: IT Administrators

PASS

PAAS PRODUCTS AND SERVICES



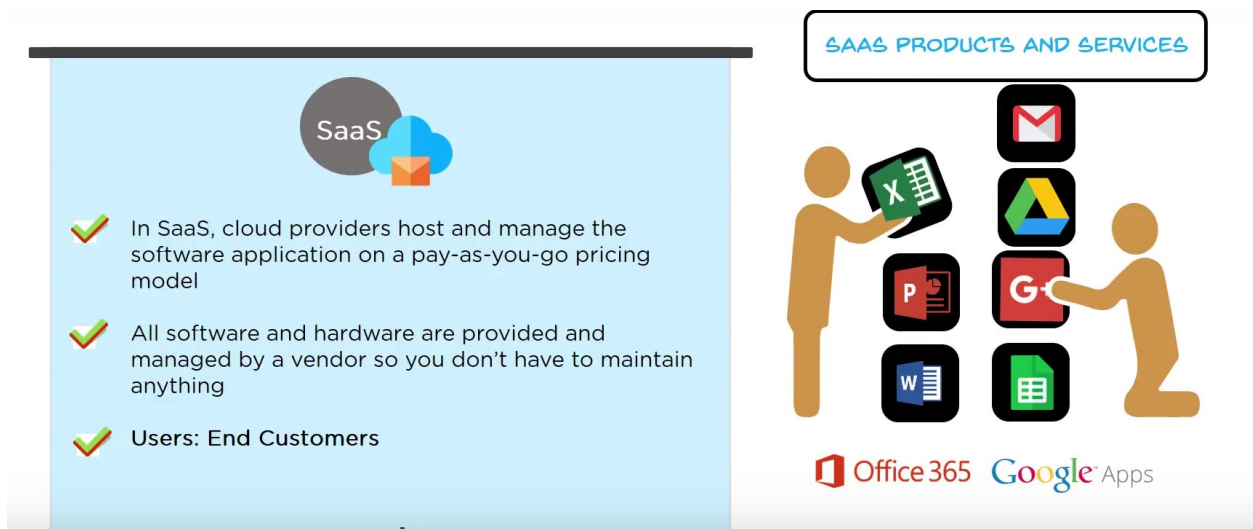
A hand is pointing at the bottom of the smartphone screen.



PaaS

- ✓ PaaS provides cloud platforms and runtime environments for developing, testing, and managing applications
- ✓ It allows software developers to deploy applications without requiring all the related infrastructure
- ✓ Users: Software Developers

SASS



Cloud Providers



Cloud Computing with AWS

- Amazon Web Services (AWS) is a cloud service from amazon
- It Provides services over the network
- AWS services can be used to create and deploys and type of application in the Cloud
- ➔ AWS uses the subscription pricing model (pay for what you use)

Life Cycle of Cloud computing



Define the Purpose

Understand the requirements of the business and determine what type of applications to run on the cloud



EC2



Lambda



**Elastic container
Service**

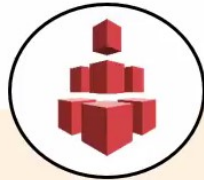


Define the Hardware

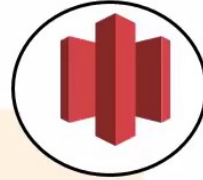
Choose a compute service that will provide the right support where you resize the compute capacity in the cloud to run application programs



S3



EFS



Glacier



Define the Storage

Choose a storage service where you can backup and archive your data over the internet



VPC



Route 53



**Direct
Connect**



Define the Network

Define a network that securely delivers data, videos, applications etc. with low latency and high transfer speed



IAM



KMS



Cognito

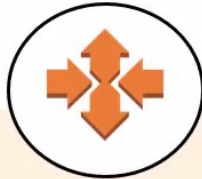


Define Security

Set up your security service which enable services for user authentication or limiting access to a certain set of users on your AWS resources



CloudWatch



Auto scaling

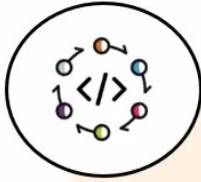


CloudFormation



Define Management Processes and Tools

You can have complete control on your cloud environment by defining management tools which monitor AWS resources and the customer applications running on AWS platform



CodeStar



CodeBuild



CodePipeline



Testing the process

Verify the process using AWS developer tools where you can build, test and deploy your code quickly



Athena



EMR



CloudSearch



Analytics

Finally, analyze and visualize data by using analytics services where you can start querying data instantly and get results

Cloud Computing Tutorial... X AWS Console - Signup X +

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Including use of Amazon EC2, Amazon S3, and Amazon DynamoDB
Visit aws.amazon.com/free for full offer terms

Email address
deepu.hr26@gmail.com

Password
.....

Confirm password
.....

AWS account name ⓘ
DeepakHR

Continue

[Sign in to an existing AWS account](#)

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Billing Management Console X +

https://portal.aws.amazon.com/billing/home?#/ Search

aws Services Resource Groups DeepakHR Global Support

History

Billing

Find a service by name or feature (for example, EC2, S3 or VM, storage). Group

Compute EC2 Lightsail ECS EKS Lambda Batch Elastic Beanstalk	Robotics AWS RoboMaker	Security, Identity, & Compliance IAM Resource Access Manager Cognito Secrets Manager GuardDuty Inspector Amazon Macie AWS Organizations AWS Single Sign-On Certificate Manager	Desktop & App Streaming WorkSpaces AppStream 2.0
Storage S3	Satellite Ground Station	Management Tools CloudWatch AWS Auto Scaling CloudFormation	Internet Of Things IoT Core Amazon FreeRTOS IoT 1-Click IoT Analytics IoT Device Defender

close

\$3

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