CLOUD STORAGE & COMPUTING

MEET OUR TEAM

UPESH PHUYAL

JYOTSANA
SURYAWANSHI

SAHIL BHANDIGARE

AGENDA

- WHAT IS CLOUD ?
- CLOUD COMPUTING VS CLOUD STORAGE
- CLOUD COMPUTING
- CLOUD STORAGE
- HOW CLOUD HAS REVOLUTIONIZED THE IT INDUSTRY

WHAT IS CLOUD ?

The “Cloud” refers to server’s that are accessed over the internet to store, manage and process the data.It provides on-demand computing resources and services which enables user to access applications,store data and perform computing tasks.

CLOUD COMPUTING

‘Cloud computing’ is a model for delivering computing resources and services over the internet on pay-as-you-go basis

Cloud Deployment Models :

1. public cloud
2. private cloud
3. hybrid cloud.

Cloud Service Models :

1. infrastructure as a service (IaaS)
2. platform as a service (PaaS)
3. software as a service (SaaS)

TYPES OF CLOUD DEPLOYMENT MODELS

PUBLIC CLOUD

The infrastructure and services are owned and operated by a third-party provider and made available to the public over the internet.

PRIVATE CLOUD

A Private Cloud is a cloud computing environment in which the infrastructure and services are owned and operated by a single organization.

HYBRID CLOUD

Computing environment that combines on-premises infrastructure with public and private services,allowing organizations seamlessly integrate and manage workloads across multiple platforms.

TYPES OF CLOUD SERVICE MODELS

INFRASTRUCTURE AS A SERVICE (IAAS)

IaaS

IaaS delivers on-demand infrastructure resources, such as compute, storage, networking, and virtualization. With IaaS, the service provider owns and operates the infrastructure, but customers will need to purchase and manage software, such as operating systems, middleware, data, and applications.

PLATFORM AS A SERVICE (PAAS)

PaaS

PaaS delivers and manages hardware and software resources for developing, testing, delivering, and managing cloud applications. Providers typically offer middleware, development tools, and cloud databases within their PaaS offerings.

SOFTWARE AS A SERVICE (SAAS)

SaaS

SaaS provides a full application stack as a service that customers can access and use. SaaS solutions often come as ready-to-use applications, which are managed and maintained by the cloud service provider.

CLOUD STORAGE

Its a service where data is stored remotely, managed, and made accessible to users over a network.

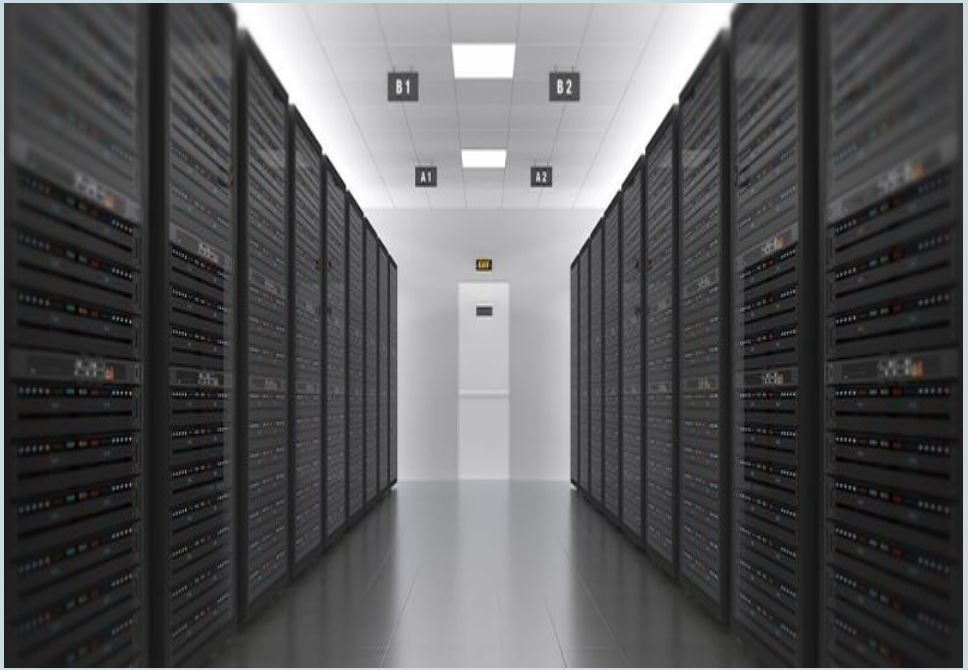
Types of cloud storage :

1. Object Storage: Ideal for large unstructured data.

2. File Storage: Organizes data in a hierarchical folder structure (NAS).

3. Block Storage: Used for low-latency storage, especially for enterprise applications.

How cloud has revolutionized the IT industry



Cloud Computing Facts

1. **Cloud Computing is Nearly Universal**: Public cloud adoption is at 91%.
2. **Amazon is the Leading Cloud Vendor**: Amazon has 5 times more cloud infrastructure than their next 14 competitors.
3. **Remote Work is Rising**: 60 percent of Americans prefer working from home, facilitated by the development of cloud computing.
4. **Banking Produces the Most Activity Within the Cloud**: This is due to the introduction of comprehensive mobile banking services in 2013.
5. **Never Upgrade Again**: When you use cloud-based solutions, you will never have to upgrade your old IT infrastructure and hardware for more storage or software upgrades.
6. **The banking sector performs a majority of its online functions using cloud technology**: For every 600 smartphones or 120 tablets a new cloud server is added.

SUMMARY

Overall, cloud technology has transformed the way businesses operate and interact with IT resources, the future of cloud technology is likely to be characterized by continued innovation, expanding capabilities, and a focus on meeting the evolving needs of businesses and consumers.

THANK YOU