AMAZON WEB SERVICES

AWS

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WHAT IS AMAZON?

- Amazon is the world's largest online retailer.

- Amazon was originally a bookseller, it has expanded to the point to sell its own electronic devices like Kindle Fire tablet, Fire TV

- In 2006 Amazon began offering IT Services known as Cloud Computing.

CLOUD COMPUTING

- Cloud computing is a method of providing a set of shared computing resources that includes applications, computing, storage, networking, development, and deployment platforms as well as business processes.

WHAT IS AWS?

- AWS is the delivery of compute power, database storage, applications, and other IT resources through a cloud services platform via the internet with pay-as-you-go services.

- AWS serves in more than 190 countries and continues expanding their global infrastructure to help their customers.

- AWS cloud operates 42 AZs (Availability Zones) within 16 geographic regions around the world.

- Region is the physical location, while availability zones consist of one or more distinct data centers, each with useful power, networking and connectivity.

| US East (N. Virginia) |
| US East (Ohio) |
| US West (N. California) |
| US West (Oregon) |
| Canada (Central) |
| EU (Ireland) |
| EU (Frankfurt) |
| EU (London) |
| Asia Pacific (Singapore) |
| Asia Pacific (Sydney) |
| Asia Pacific (Seoul) |
| Asia Pacific (Tokyo) |
| Asia Pacific (Mumbai) |
| South America (São Paulo) |

AMAZON WEB SERVICES

AWS offers many cloud-based products which includes:

- ❖ Computing
- ❖ Storage
- ❖ Databases
- ❖ Analytics
- ❖ Networking

- ❖ Mobile
- ❖ Developer tools
- ❖ Management tools
- ❖ IoT and security
- ❖ Enterprise applications

STORAGE
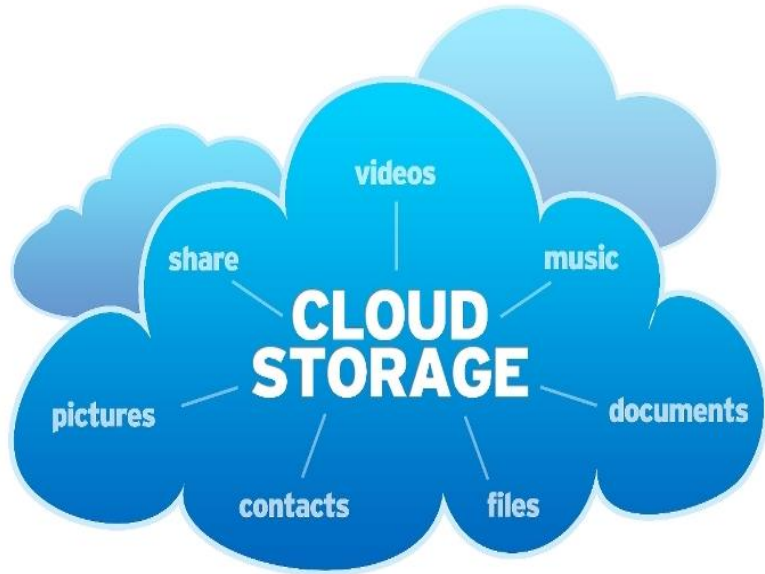
- Cloud storage is a simple and scalable way to store, access, and share data over the Internet

- Cloud storage is typically more reliable and secure than traditional storage systems.

- The use of cloud storage eliminates the costs of buying and maintaining your own storage infrastructure.

STORAGE SERVICES

❖ Amazon Simple Storage Service (S3)

❖ Amazon Elastic Block Store (EBS)

❖ Amazon Elastic File System (EFS)

❖ Amazon Glacier

❖ AWS Storage Gateway

❖ AWS Snowball

❖ AWS Snowball Edge

❖ AWS Snowmobile

AMAZON S3

- Is an object storage with a simple web service such as to store and retrieve any amount of data from anywhere on the web.

- It is designed to deliver 99.999999999% durability, and scale past trillions of objects worldwide.

- It's simple to move large volumes of data into or out of Amazon S3 with Amazon's cloud data migration options

- Features includes : Simple data transfer, Easy to manage, scalable and so forth.

AMAZON ELASTIC BLOCK STORE

- Provides block storage volumes for Amazon EC2 instances in the AWS Cloud

- Provides protection from component failure, offering high availability and durability.

- Features includes : High performance volumes , Availability , Encryption Access Management and Snapshots

AMAZON ELASTIC FILE SYSTEM

Amazon EFS

- Provides simple, scalable file storage for Amazon EC2 instances in the AWS Cloud.3

- Storage capacity is elastic as you add and remove files for available storage for your applications

- Amazon EFS is designed for a broad spectrum of workloads which includes:

  Applications, big data and analytics, media processing workflows, content management, web serving, and home directories.

AMAZON GLACIER

- Amazon Glacier is a secure and extremely low-cost cloud storage service for data archiving and long-term backup

- Customers can reliably store large or small amounts of data for as little as $0.004 per gigabyte per month

- Benefits includes : low cost, security, simplicity, flexibility and many more.

AWS STORAGE GATEWAY

- is a hybrid storage service that enables your applications to use storage in the AWS Cloud.

- use the service for backup and archiving, disaster recovery, cloud bursting, storage tiering, and migration.

- Features include: connect as a file server, connect as a local disk, connect as a virtual tape library and transfer data into and out of the AWS Cloud

AWS SNOWBALL

- Snowball is a data transport solution that uses secure appliances to transfer large amounts of data into and out of the AWS cloud.

- Snowball addresses common challenges with large-scale data transfers like
    - High network costs
    - Long transfer times
    - Security concerns
- Features include: Simple to use, fast, secure, and low cost.

AWS SNOWMOBILE

- AWS Snowmobile is a data transfer service used to move extremely large amounts of data to AWS

- Snowmobile makes it easy to move video libraries, images, or even a complete data center migration

- Features include: Multiple layers of security, GPS tracking, alarm monitoring and 24/7 video surveillance

AWS SNOWBALL EDGE

- AWS Snowball Edge is a 100TB data transfer device.

- Snowball Edge is used to move large amounts of data into and out of AWS, as a temporary storage .

- Benefits of AWS Snowball Edge :

  Easy data movement , simple to use , process data locally , stand-alone storage , secure, scalable

Conclusion

- Amazon grew from being a bookseller to selling its own AWS cloud computing system.

- AWS provides many services as mentioned before for very low cost

- Both Students and businesses uses AWS for personal or business.

- AWS is simple to use, AWS website provide the resources to learn about the different services and use them.

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