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## CLOUD COMPUTING :-

### Assignment-1

→ Discuss the following AWS services in brief (2-3) lines.

1) EC2 (Elastic Cloud Compute)

The AWS EC2 service comes under the compute domain and it provides servers that help to compute workloads. It is used to reduce expensive physical servers by creating virtual machines.

2) Elastic Beanstalk :

With Elastic Beanstalk, you can quickly deploy and manage applications in AWS Cloud without having to learn about infrastructure that runs those apps. Elastic Beanstalk supports apps developed in Go, Java, .NET, Node.js, PHP, Python & Ruby.

3) IAM: AWS identity and access management (IAM) provides fine-grained access control across all of AWS. With IAM you can specify who can access which services and resources and under which conditions.

4) ELB: Elastic Load Balancing (ELB) automatically distributes incoming application

traffic across multiple targets and virtual appliances in one or more Availability Zones (AZs)

- 5) S3 : Amazon Simple Storage Service (Amazon S3) is an object storage service offering industry-leading scalability, data availability, security, and performance.
- 6) EBS : Amazon Elastic Block Store (Amazon EBS) is an easy-to-use, scalable, high-performance block-storage service designed for Amazon Elastic Compute Cloud (EC2).
- 7) FSx for Lustre : Amazon FSx for Lustre provides fully managed shared storage with the scalability and performance of the popular Lustre file system.
- 8) Glacier : Amazon S3 Glacier storage classes are purpose-built for data archiving, providing you with highest performance, most retrieval flexibility, and lowest cost archive storage in the cloud. It is designed for 99.9999% (11 nines) of data durability.



- 9) SageMaker:- Amazon SageMaker helps data Scientists and developers to prepare, build, train and deploy high-quality machine learning models quickly by bringing together a broad set of capabilities purpose-built for ML.
- 10) Rekognition:- Amazon Rekognition makes it easy to add image and video analysis to your applications. You just provide an image or video to Rekognition API, and services can identify objects, people, text, scenes and activities.
- 11) SNS: Simple Notification Service (Amazon SNS) is a fully managed messaging service for both application-to-application (A2A) and application-to-person (A2P) app.
- 12) SES: Simple Email Service (SES) is a cost-effective, flexible and scalable email service that enables developers to send mail from within any application.
- 13) Lambda: AWS Lambda is a serverless, event-driven compute service that lets you run code for virtually any type of application or backend service.

Without provisioning or managing Servers. You can trigger lambda from over 200 AWS services and SaaS apps, & only pay for what you use.

14) RDS: Amazon Relational Database service makes it easy to setup, operate and scale a relational database in the cloud.

15) Cloud9: AWS Cloud9 is a cloud-based integrated development environment (IDE) that lets you write, run and debug code with just a browser. It includes a code editor, debugger and terminal.

16) Cognito: Amazon Cognito lets you add user sign-up, sign-in and access control to your web and mobile apps quickly and easily.

17) VPC: - Virtual private cloud gives you full control over your virtual networking environment, including resource placement, connectivity and security.



18) Route 53 :-

Amazon Route 53 is a highly available and Scalable cloud Domain Name system (DNS) web service. It is designed to give developers and businesses an extremely reliable and cost effective way to route end users to Internet apps by translating names like `www.example.com` into numeric IP addresses like `192.0.2.1`.  
Ans Route 53 is fully compliant with IPv6.