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Subject: Cloud Computing

## Assignment - 1

(1) EC2 :- Amazon Elastic Compute Cloud is a web service that provides secure, resizable compute capacity in the cloud.

It is designed to make web-scale cloud computing easier for developers. Amazon EC2 Simple web service interface allows you to configure capacity with minimum friction.

(2) Elastic Beanstalk :- AWS Elastic Beanstalk is an orchestration service offered by Amazon web service for deploying applications which orchestrates various AWS services, including EC2, S3, Simple Notification Service, CloudWatch, autoscaling, and Elastic Load Balancing.

(3) IAM :- AWS Identity and Access Management (IAM) is a web service for security.





Controlling access to AWS resources.

It enables you to create and control services for user authentication or limit access to a certain set of people who use your AWS resources.

(14) ELB :- Elastic Load Balancing (ELB) automatically distributes incoming application traffic across multiple targets and virtual appliances in one or more Availability Zones (AZs).

(15) S3 :- Amazon Simple Storage Service is a service offered by Amazon web service that provides object storage through a web service interface.

Amazon S3 uses the same scalable storage infrastructure that Amazon.com uses to run its global e-commerce network.

(16) EBS :- Amazon Elastic Block Store provides block level storage volumes for use with EC2 instances.

You can create a file system on top of these volumes, or use them in any way you could use a block device. You can dynamically change the configuration of a volume attached to an instance.





- (7) Fsx Luster: Amazon Fsx for Luster is a fully managed service that provides cost-effective, high-performance, scalable storage for compute workloads. It provides multiple deployment options and storage types to optimize cost and performance for your workload requirements.
- (8) Glacier: Amazon S3 Glacier is a secure, durable and extremely low cost Amazon S3 storage class for data archiving and long term backup with S3 Glacier. Customers can store their data cost effectively for months, years or decades.
- (9) SageMaker: Amazon SageMaker is a cloud machine learning platform that was launched in November 2017. SageMaker enables developers to create, train and deploy machine learning models in the cloud. SageMaker also enables developers to deploy ML models on embedded systems and edge-devices.
- (10) Rekognition: Amazon Rekognition is a cloud-based software as a service computer vision platform that was launched in 2016.





It has been sold and used by a no. of United States government agencies.

(11) SNS :- Amazon Simple Notification Service is a notification service provided as part of Amazon web Services since 2010.

It provides a low-cost infrastructure for the mass delivery of messages, predominantly to mobile users.

(12) SES :- Amazon Simple Email Service lets you send transactional email, marketing messages or any other type of high-quality content to your customers.

(13) Lambda :- AWS Lambda is an event-driven, serverless computing platform provided by Amazon as a part of Amazon Web Services. It is a computing service that runs code in response to events and automatically manages the computing resources required by that code.

(14) RDS :- Amazon Relational Database Service is a distributed relational database service by Amazon Web Services.

It is a web service running in the cloud designed to simplify the setup, operation and scaling of a relational database for use in applications.





- (15) Cloud9 :- Cloud9 IDE is an online IDE,  
→ published as open source from  
Version 2.0 until Version 3.0. ~~It~~  
~~Supports~~ AWS Cloud9 is a cloud based  
integrated development environment IDE  
that lets you write, run & deploy your  
code with just a browser.  
It includes a code editor, debugger  
and terminal.
- (16) Cognito :- Amazon Cognito lets you add  
→ user signup, sign in and access  
control to your web and mobile app  
quickly and easily.
- (17) VPC :- Amazon Virtual Private Cloud is a  
→ Commercial Cloud computing service  
that provides users a virtual private  
cloud ~~by~~.
- (18) Route 53 :- Amazon Route 53 is a highly  
→ scalable and available cloud Domain  
Name System (DNS) web service. It is  
designed to give developers and business  
an extremely reliable and cost effective  
way to route end users to Internet  
applications by translating names like  
~~www~~ example.com into the numeric IP  
addresses like 192.0.