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Subject: cloud computing

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Assignment-1

1) EC2

→ Amazon elastic compute cloud (Amazon EC2) provide scalable computing capacity in the Amazon web services (AWS) cloud... you can use Amazon EC2 to launch as many or as few virtual servers as you need configure security and networking and manage storage.

2) Elastic Beanstalk.

AWS Elastic Beanstalk is an easy-to-use service for deploying and scaling web application and services developed with Java, .NET, PHP, Node.js, Python, Ruby, Go and Docker on familiar services such as Apache, NGINX, Passenger and IIS.

3) IAM

Identity and access management (IAM) is a framework of business processes, policies and technologies that facilitates the management of electronic or digital identities. With an IAM framework in place, information technology (IT) managers can control user access to critical information within their organization.

4] ELB

- Elastic Load Balancing (ELB) is a load-balancing service for Amazon web services (AWS) deployments. ELB automatically distributes incoming application traffic and scales resources to meet traffic demands. ELB helps an IT team adjust capacity according to incoming application and network traffic.

5] S3

- an Amazon S3 buckets is a public cloud storage resource available in Amazon web services' (AWS) simple storage service (S3) an object offering. Amazon S3 buckets which are similar to file folders, store object which consist of data and its descriptive metadata.

6] EBS

- AWS Elastic Block Store (EBS) is Amazon's block level storage solution used with the EC2 cloud service to store persistent data. This means that the data is kept on the AWS EBS servers even when the EC2 instances are shut down.

7] fsx for lustre

- Amazon fsx for lustre 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

- S3 glacier enables customers to offload the administrative burdens of operating and scaling storage to AWS so they don't have to worry about capacity planning, hardware provisioning, data replication, hardware failure detection and recovery or time-consuming hardware migration.

9] sagemaker

- Amazon SageMaker is a fully-managed service that enables data scientists and developers to quickly and easily build, train and deploy machine learning models at any scale. Amazon SageMaker includes modules that can be used together or independently to build, train and deploy your machine learning models.

11] Recognition

- face-based user verification. Amazon Rekognition enables your application to confirm user identities by comparing their live image with a reference image. Amazon Rekognition detects personal protective equipment (PPE) such as face covers, hard hats, and hard covers on persons in images.

11] SNS

- A social networking service (SNS) is an online vehicle for creating relationship with other people who share an interest, background or real relationship --- social networking services may also be referred to as a "social networking site" or simply "social media".

12] SES

- Amazon SES integrates with AWS Key Management (KMS) which provides the ability to encrypt the mail that it writes to your Amazon S3 bucket. Amazon SES uses client-side encryption to encrypt your mail before it sends the mail to Amazon S3.

13] Lambda

- > AWS Lambda is a serverless compute service that runs your code in response to events and automatically manages the underlying compute resource for you. You can use AWS Lambda to extend other AWS services with custom logic or create your own backend service that operates at AWS scale performance and security.

14] RDS

- > Amazon Relational Database Service makes it easy to set up, operate, and scale a relational database in the cloud. It provides cost-efficient and resizable capacity while automating time-consuming administration tasks such as hardware provisioning, database setup, patching and backups.

15] Cloud9

- > AWS Cloud9 is a cloud-based integrated development environment (IDE) that lets you write, run, and debug your code with just a browser. It combines the rich code editing feature of an IDE such as code completion, hinting and step-through debugging with access to a full Unix server for running and storing code.

16] cognito

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amazon cognito is an amazon web services product that controls user authentication and access for mobile application on internet-connected devices. amazon cognito collects a user's profile attributes into directories called user pools that a mobile app or web app uses to configure limited access to AWS services.

17] vpc

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amazon virtual private cloud (Amazon VPC) enable you to launch AWS resources into a virtual network that you've defined. This network closely resembles a traditional network that you'd operate in your own data center, with the benefits of using the scalable infrastructure of AWS.

18] Route 53

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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 application by translating names like www.example.com into the numeric IP addresses like 192.0.