Cloud Computing Assignment :- 01

Ques: Define the following AWS Services in brief?

1) EC2:- Amazon Elastic cloud (EC2) is a web service that Provides secure, resizable compute capacity in cloud. It is designed to make web-scale cloud computing easier for developers. It's simple interface allows you to obtⁿ and configure capacity with minimal friction, Providing complete control of your computing resources.

2) Elastic Beanstalk:- is an easy to use service for deploy and scaling web applications and services developer with Java, NET, PNP, Node js, Python, Ruby Bio & Docker on familier services like Apache, Njiv passenger and IIs

3) IAM:- AWS Identity and Access Management (IAM) provides fine-grained access control across all AWS with IAM, you can specify who can access which services & resources, under which conditions. Also, we can manage permissions to your work force & systems to ensure least-privileye permissions

4) ELB:- Elastic loading Balancing (ELB) automatically distributes incoming application treffie across multipal targets & vistual appliances in one or more Availability zones (AZs)

5) S3:- Amazon Simple storage Service is an object storage service offering industry-leading scalability, data & security and Performance, customers of all sizes and

Performance can store and project any amount of data for virtually any use case, such as data lake cloud native applications & mobile apps.

6) EBS:- Amazon Elastic Book Store is an easy to use scalable high- performance block storage service designed for Amazon Elastic Compute Cloud and is used any Amazon Relational Database Service.

7) FSx for Lustre:- Provides fully managed shared storage with scalability and performance of popular hastere file system. The FSx for lusture make it ea and cost effective to launch, run and scale the work most high performance file system.

8) Glacier:- These are Amazon S3 storage classes that are built for the purpose of data archiving, providing you with the highest performance, most retrieval flexibility and lowest cost archive storage in the cloud. All glacier storage classes provide virtually unlimited scalauty and are designed for 99.999% of data dueality.

9) Sagemaker :- Amazon sagemaker is a cloud machine-learning platform that enalices developers, data scientists to create, train and deploy machine models in the cloud and also to deploy ML node on embedded systems and edge systems.

10) Rekognition:- Amazon Rekognition offas pre-trained and customizable computer vision (CV) capabilities to extract information and insights from your images and videos. It makes easy to add image and video analysis to our application highly proven deep learning technology.

11) SNS:- Amazon Simple Notification Service is a full managed messaging services to & both application to application (A2A) and application to person (A2P) communication. It provides for high throughpush based many - to - many messaging between distad system and serverless applications.

12) SES:- Amazon Simple, Email, Service (SES) is cost-effective, flexible and scalable email service that enables developers to send mail from within any application you can configure Amazon SES quickly to support serveral email use causes including treamaction al or mass

13) Lemlida:- AWS Lamlida is a serverless, event drive compute services that lets you run code for virtual an type of application or backend service without provision or managing servers i.e. it runs the code in response events and automatically manage computing resources required by that code.

14) RDS:- Amazon Relational Database service makes it easy to set up, operate and scale a relational database in the

cloud. It provides cost effective and resizable capacity while automating time consuming administration tasks such as hardware provisioning, database set up patching & backup

15) Cloud 9 :- AWS cloud 9 is a cloud based integrated developement environment (IDE) that lets you write run and debug your code with just a browser. It includes a code editor, debugger and terminal. It comes with prepackaged essential tools for popular programming language including Javascript, Python, PHP,

16) Cognito :- AWS cognito lets you add user-sign-up, sign and access control to your web and mobile apps quick and easily. It scales to millions of users and suppo sign-in with social identity provider like Apple, Goo enterprise identity provider like saml 2 and open IP

17) VPC :- Amazon Virtual private cloud (VPC) gives complete control over your virtual networking including resource placement, connectivity and security. It pro virtual private cloud by logically isolating section of clo Enterprise customers are able to access Amazon Elastic compu cloud over an IP sec based virtual private Network

18) Route 53 :- It is highly available and scalable cloud Domain Name System (DNS) web service. It is design to give developers and business an extremely relia and cost effective way to route and users to inte applications by translating names into numeric IP add that computers use to connect to each other.