Fundamental of Cloud Computing

Curriculum overview

AWS Services

1. Amazon EC2 (Elastic Compute Cloud): Provides resizable compute capacity in the cloud.

2. Amazon S3 (Simple Storage Service): Object storage service offering scalability, data availability, and security.

3. Amazon RDS (Relational Database Service): Managed relational database service supporting multiple database engines.

4. Amazon VPC (Virtual Private Cloud): Lets you provision a logically isolated section of the AWS cloud.

5. Amazon IAM (Identity and Access Management): Manages access to AWS services and resources securely.
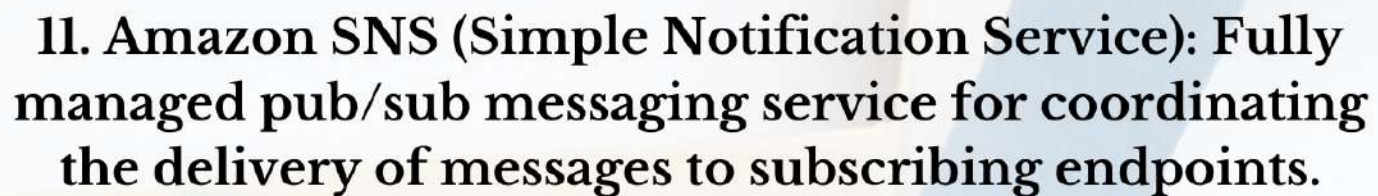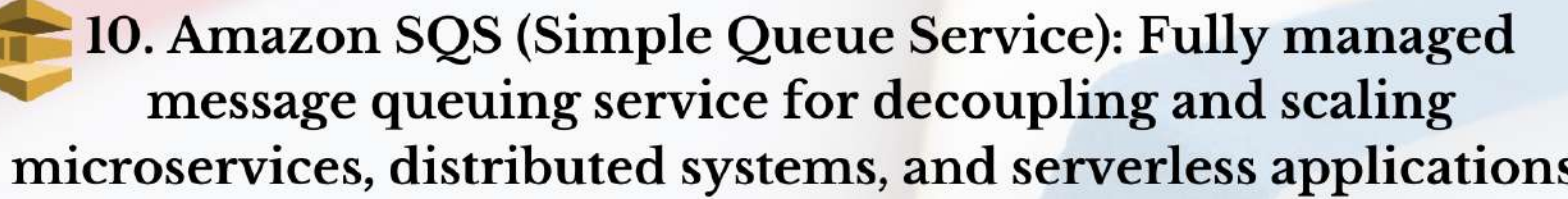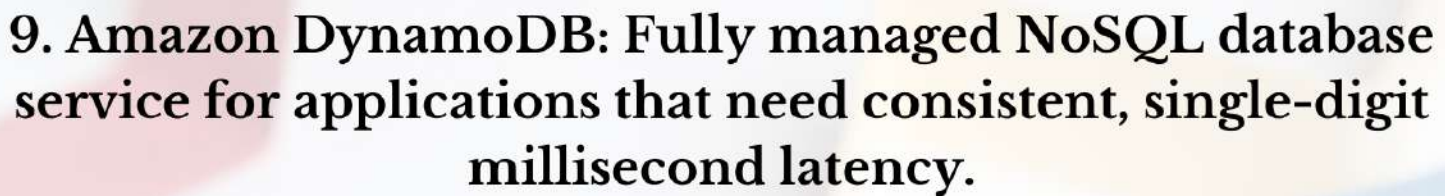
6. Amazon CloudWatch: Monitoring and management service for AWS resources and applications.
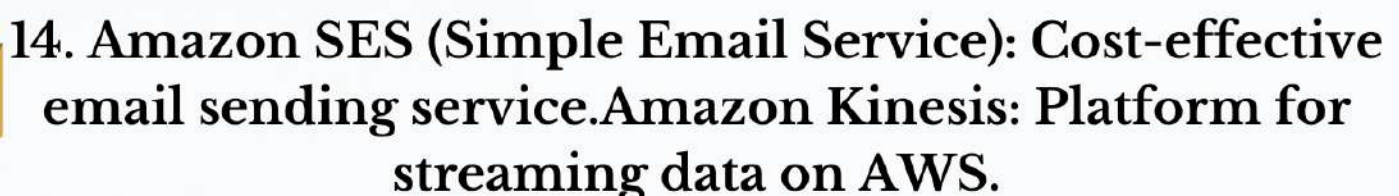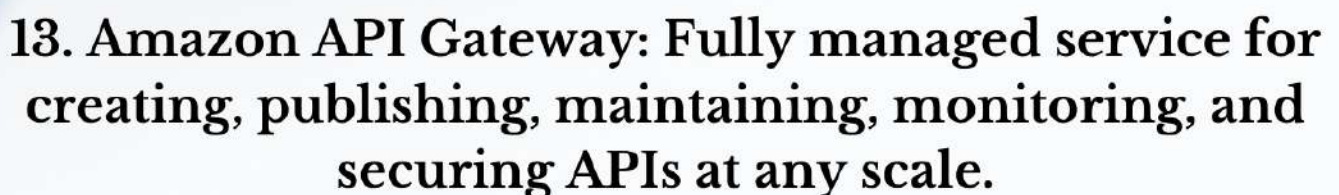
7. Amazon Route 53: Scalable Domain Name System (DNS) web service.

8. AWS Lambda: Runs code in response to events without the need for managing servers.

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aws

9. Amazon DynamoDB: Fully managed NoSQL database service for applications that need consistent, single-digit millisecond latency.

10. Amazon SQS (Simple Queue Service): Fully managed message queuing service for decoupling and scaling microservices, distributed systems, and serverless applications.

11. Amazon SNS (Simple Notification Service): Fully managed pub/sub messaging service for coordinating the delivery of messages to subscribing endpoints.

12. Amazon Glacier: Low-cost cloud storage for data archiving and long-term backup. Amazon CloudFront: Content delivery network (CDN) service for securely delivering data, videos, applications, and APIs to customers globally with low latency.

13. Amazon API Gateway: Fully managed service for creating, publishing, maintaining, monitoring, and securing APIs at any scale.

14. Amazon SES (Simple Email Service): Cost-effective email sending service. Amazon Kinesis: Platform for streaming data on AWS.

Gen AI concepts

- Gen AI tools : Amazon Bedrock , Open Ai
- Amazon Q services , chat gpt
- And one live project on Gen AI use case.

Modernization concept

- Mainframe modernization : replatform using Aws mainframe modernisation Rehost via Microfocus

- Mainframe modernization using : Refactor pattern , Blu age refactor tool

No. of Projects :

- There will be 3 Real time project

Curriculum Duration:

- 20 hrs via online mode 13th April Starting .

Fee:

- 7000/- INR only (no negotiation).

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