

# **Aws certificate developer associate course(DVA-C02)**

## **1 AWS Fundamentals and Basics**

- 1.1 Understanding the AWS global infrastructure.
- 1.2 Identifying and working with AWS services.
- 1.3 Identity and Access Management (IAM)

## **2 Managing AWS user identities and permissions.**

- 2.1 Setting up and configuring IAM policies.
- 2.2 AWS Compute Services

## **3 Understanding Amazon EC2 (ElasticCompute Cloud) instances.**

- 3.1 Creating and configuring EC2 instances.
- 3.2 Load balancing and auto-scaling.

## **4 AWS Storage Services**

- 4.1 Working with Amazon S3 (Simple StorageService) for object storage.
- 4.2 Managing data with Amazon EBS (Elastic BlockStore) and EFS (Elastic File System).



## **5 AWS Database Services**

- 5.1 Overview of Amazon RDS (Relational DatabaseService).
- 5.2 Using Amazon DynamoDB for NoSQLdatabases.

## **6 AWS Serverless Services**

- 6.1 Working with AWS Lambda for serverless computing.
- 6.2 Developing and deploying serverless applications using AWS SAM (Serverless Application Model).

## **7 AWS Application Integration**

- 7.1 Understanding and configuring AWS messaging services like Amazon SNS and SQS.
- 7.2 Implementing event-driven architectures with AWS services.

## **8 Deployment and Monitoring**

- 8.1 Deploying applications with AWS Elastic Beanstalk.
- 8.2 Monitoring and debugging applications using AWS CloudWatch.



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## **9 Security and Encryption**

9.1 Implementing encryption in transit and at rest.

9.2 Best practices for securing AWS resources.



+91 8618501719



[www.virajetech.com](http://www.virajetech.com)



[info@virajetech.com](mailto:info@virajetech.com)

## **Development and Deployment Best Practices**

- 10 Understanding application deployment strategies.
- 11 Implementing CI/CD pipelines on AWS.

## **Application Integration and APIs**

- 11.1 Creating and managing APIs using Amazon APIGateway.
- 11.2 Integrating AWS services with third-party APIs.

## **Testing and Troubleshooting**

- 11.3 Testing and debugging applications on AWS.
- 11.4 Troubleshooting common issues in AWS environments.

## **SDKs and CLI**

- 11.5 Working with AWS SDKs (Software Development Kits) and the AWS Command Line Interface (CLI).

