TechyEdz Solutions

A Blended Learning Approach

AWS Developer Associate

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AWS Certified Developer – Associate (DVA-C01)

♣ Course Overview:

This AWS Certified Developer - Associate (DVA-C01) examination is intended for individuals who perform a developer role. This course for intermediate-level students begins with an overview of the fundamentals of Cloud computing, then moves you through an in-depth curriculum on developing, deploying, and maintaining applications — especially Serverless ones — on AWS.

♣ Course Outline:

Cloud Basics

- IAAS(Infrastructure As A Service)
- PAAS(Platform As A Service)
- SAAS(Software As A Service)

Introduction to AWS

- Compute
- Storage
- Database
- Networking
- Security
- Applications

Deployment

- Deploy written code in AWS using existing CI/CD pipelines, processes, and patterns
- Deploy applications using Elastic Beanstalk
- Prepare the application deployment package to be deployed to AWS
- Deploy serverless applications

Security

- Make authenticated calls to AWS services
- Implement encryption using AWS services

➢ Implement application authentication, and authorization

Development with AWS Services

➢ Write code for serverless applications
➢ Translate functional requirements into application design
➢ Implement application design into application code
➢ Write code that interacts with AWS services by using APIs, SDKs, and AWS CLI

Refactoring

➢ Optimize application to best use AWS services and features
➢ Migrate existing application code to run on AWS

Virtual Private Cloud

➢ VPC
➢ Subnets
➢ Route Tables
➢ Internet gateway

EC2

➢ On-demand
➢ Reserved
➢ Spot Instance
➢ Scheduled instance

Storage

➢ Standard
➢ Standard Infrequent Access
➢ Standard Intelligent Tier
➢ S3 Glacier
➢ S3 Glacier Deep

Load balancing and Autoscaling

➢ Classic Load balancer
➢ Application Load balancer

- Network Load balancer

Route 53

- Simple
- Weighted
- Geological
- Latency
- Failover

Cloud Front

- Origins and Origin groups
- Behaviors
- Restrictions
- Invalidations

IAM

- Users
- Groups
- Roles
- Polices

Relational Database Service

- Aurora
- MySQL
- MsSQL
- MariaDB
- PostgreSQL
- Oracle

Dynamo DB

- Scaling through performance
- Server less environment
- Microservices

Cloud Watch

➢ Events
➢ Logs
➢ Metrics
➢ Alarms

Application Services

➢ Simple E-mail Service
➢ Simple Queue Services
➢ Simple Notification Service

Design and Architecture

➢ Operational excellence
➢ Reliability
➢ Security
➢ Cost optimization
➢ Performance efficiency

Monitoring and Troubleshooting

➢ Write code that can be monitored
➢ Perform root cause analysis on faults found in testing or production

Prerequisites:

- An AWS CCP or CSA-A certification is preferred, but not required.

- In-depth knowledge of at least one high-level programming language

- Understanding of core AWS services, uses, and basic AWS architecture best practices

- Proficiency in developing, deploying, and debugging cloud-based applications using AWS

- Ability to use the AWS service APIs, AWS CLI, and SDKs to write applications

- Ability to identify key features of AWS services

- Understanding of the AWS shared responsibility model

- Understanding of application lifecycle management

- Ability to use a CI/CD pipeline to deploy applications on AWS

- Ability to use or interact with AWS services

- Ability to apply a basic understanding of cloud-native applications to write code

- Ability to write code using AWS security best practices (e.g., not using secret and access keys in the code, instead using IAM roles)

- Ability to author, maintain, and debug code modules on AWS

- Proficiency writing code for serverless applications

- Understanding of the use of containers in the development process

✚ Who Can Attend:

- Existing developers, Systems Engineers, SysOps Engineers, DevOPs Engineers, Architects
- People interested in hosting highly scaleable, fault tolerant applications on the AWS cloud

✚ Number of Hours: 40hrs

✚ Certification: AWS Certified Developer – Associate (DVA-C01)

✚ Key Features:
- ➢ One to One Training
- ➢ Online Training
- ➢ Fastrack & Normal Track
- ➢ Resume Modification
- ➢ Mock Interviews
- ➢ Video Tutorials
- ➢ Materials
- ➢ Real Time Projects
- ➢ Virtual Live Experience
- ➢ Preparing for Certification