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AWS Developer Associate Certification Training Course

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Program Overview:

Enhance your proficiency with the Amazon Web Services (AWS) cloud platform. The AWS Developer Associate Certification will empower you to develop and deploy robust AWS cloud applications. This course combines instructor-led training courses, live demonstrations, hands-on exercises, and simulation exams to help you pass the exam on your first attempt. You will master the implementation of cloud security best practices and understand what it takes to become an AWS Developer Associate.

Program Features:

- ➢ Trusted content
- ➢ Re-learn for free anytime in a year
- ➢ Rigorous assignments and assessments
- ➢ Learn at your own pace
- ➢ Mandatory feedback sessions

- ➢ Mock-interview
- ➢ Hands-on real-time experience
- ➢ Free Mentorship
- ➢ Live chat for instant solutions
- ➢ Job-ready employees post-training
- ➢ End-to-end training
- ➢ Download the certificate after the course

Delivery Mode:

- ➢ Online Training

Prerequisites:

To apply for the AWS Developer Associate certification, you should:

- ➢ Complete the AWS Technical Essentials course, OR have significant hands-on

professional experience with various AWS services

- ➢ Understand stateless and loosely coupled distributed applications
- ➢ Be familiar with the development of API interfaces
- ➢ Have a basic understanding of relational and non-relational databases and familiarity with messaging and queuing services

Target Audience:

The AWS Certified Developer Associate Level exam is designed for developers with at least one year of experience coding solutions using AWS for Amazon Simple Storage Service, Amazon DynamoDB, Amazon Simple Queue Service, Amazon Simple Notification Service, Amazon Simple Workflow Service, AWS Elastic Beanstalk, and AWS CloudFormation.

Key Learning Outcomes:

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- ➤ By the end of this online AWS Developer Associate course, you will be able to:
- ➤ Write code and design scalable applications
- ➤ Implement application security and testing
- ➤ Develop expertise with key AWS components such as S3, DynamoDB, Elastic Beanstalk, and CloudFormation

Certification Details and Criteria:

- ➤ Complete one batch of live classes
- ➤ Complete one project and one simulation test with a minimum score of 60 percent

Course Curriculum:

AWS Overview

- ➤ Section Introduction
- ➤ Introduction to AWS
- ➤ Core AWS Services
- ➤ Accessing AWS Services
- ➤ Assisted Practice:Set up the AWS Command Line Interface
- ➤ AWS SDKs
- ➤ Assisted Practice: Set Up AWS SDK
- ➤ Amazon Elastic Compute Cloud
- ➤ Section Introduction
- ➤ Amazon Elastic Cloud Computing
- ➤ Amazon Machine Image
- ➤ Amazon EC2 instance IP addressing
- ➤ EC2 Instance Metadata
- ➤ Assisted Practice: Create a Linux Based EC2 Instance
- ➤ Assisted Practice: Create a Windows Based EC2 Instance

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- Assisted Practice: Launch an EC2 Linux Instance and install a webserver using user data
- Assisted Practice: EC2 instance Connect
- Assisted Practice: Create Custom AMI
- Assisted Practice: Launch an Instance Using a Custom AMI
- Introduction to Amazon EBS
- EBS Snapshot
- Assisted Practice: Create and Attach an EBS Volume to a Linux Instance
- Assisted Practice: Create a Snapshot of an Existing EBS Instance
- Elastic File System
- Difference between EFS and EBS
- Auto Scaling
- Amazon Elastic Load Balancer
- Types of Amazon Load Balancers
- Assisted Practice: Set Up an Autoscaled Environment
- QnA Knowledge Checks
- Lesson End Project
- Amazon Storage Services
- Section Introduction
- Introduction to Amazon S3
- Assisted Practice: Creating an S3 bucket
- Version Control in Amazon S3
- Assisted Practice: Configure an S3 Bucket for versioning
- Static Web Hosting
- Amazon S3 Policies

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- Assisted Practice: Configure an S3 Bucket for Static Website Hosting
- Amazon S3 Storage Classes
- Amazon S3 pricing tiers
- S3 Select and S3 Glacier Select
- Sharing an S3 bucket between multiple accounts
- Backup and DataSync
- Amazon CloudFront
- Assisted Practice: Configure a new CloudFront distribution with an S3 bucket
- QnA Knowledge Checks
- Lesson End Project

Databases on AWS

- Section Introduction
- Introduction to Databases
- Amazon RDS
- Assisted Practice: Create an RDS Database Instance
- Amazon DynamoDB
- Assisted Practice: Create a Table Using the DynamoDB Console
- DynamoDB concepts
- Amazon ElastiCache
- QnA Knowledge Checks
- Lesson End Project

Amazon Virtual Private Cloud

- Section Introduction
- Introduction to Amazon VPC

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- Assisted Practice: Create a Custom VPC
- Amazon VPC Components
- IP Addresses
- Elastic Network Interface
- VPCs and Subnets
- Internet Gateways
- Network Address Translation (NAT) Gateway
- Controlling Traffic in Amazon VPC
- VPC Peering
- Assisted Practice: Create and Accept a VPC Peering Connection
- Virtual Private Network (VPN) Connections
- Assisted Practice: Demonstrate a VPN connection
- QnA Knowledge Checks
- Lesson End Project

Amazon Route 53

- Section Introduction
- Domain Name System (DNS)
- Introduction to Amazon Route53
- Amazon Route 53 Concepts and Terminologies
- Amazon Route 53 Policies
- Assisted Practice: Register a new domain name
- Assisted Practice: Create a Public Hosted Zone
- Route53 Best Practices
- Amazon Route 53 Costs
- Limitations of Amazon Route 53
- QnA Knowledge Checks

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- ➤ Lesson End Project

IAM and security on AWS

- ➤ Section Introduction
- ➤ Introduction to Identity and Access Management
- ➤ Terminologies in AWS IAM
- ➤ IAM Users
- ➤ Assisted Practice: Create an IAM user
- ➤ IAM Groups
- ➤ Assisted Practice: Creating and Addng IAM used to an IAM group
- ➤ IAM Roles
- ➤ Assisted Practice: Creating an IAM role for an IAM user
- ➤ IAM Policies
- ➤ Assigning role to AWS Services
- ➤ Assisted Practice: Use IAM roles with EC2
- ➤ AWS Cognito
- ➤ AWS Single Sign-On
- ➤ Assisted Practice: Enable AWS Single Sign-On for a user
- ➤ AWS Multi Factor Authentication
- ➤ Assisted Practice: AWS Multi Factor Authentication
- ➤ AWS Key Management Service
- ➤ QnA Knowledge Checks
- ➤ Lesson End Project

Application and Serverless Services in AWS

- ➤ Section Introduction
- ➤ Introduction to Amazon Application Services

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- ➢ Amazon Simple Queue Service
- ➢ Assisted Practice: Demonstrate SQS
- ➢ Amazon SNS
- ➢ Assisted Practice: Demonstrate SNS
- ➢ Amazon SNS vs. Amazon SQS
- ➢ Amazon API Gateway
- ➢ Amazon Kinesis
- ➢ Event Processing
- ➢ Introduction to AWS Serverless Services
- ➢ Assisted Practice: Create a Serverless Webpage
- ➢ Lambda concepts
- ➢ Elastic Container Service
- ➢ QnA Knowledge Checks
- ➢ Lesson End Project

Monitoring on AWS

- ➢ Section Introduction
- ➢ Types of monitoring services in AWS
- ➢ Introduction to CloudWatch
- ➢ Assisted Practice: Creating Cloud Watch Alarms
- ➢ AWS Billing Metrics
- ➢ Introduction to AWS CloudTrail
- ➢ Cloudwatch vs CloudTrail
- ➢ AWS Monitoring Best Practices
- ➢ QnA Knowledge Checks
- ➢ Lesson End Project

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Development and Deployment on AWS

- ➢ Section Introduction
- ➢ Introduction to CI/CD
- ➢ Assisted Practice: Develop sample java program and access AWS resources
- ➢ Assisted Practice: CodeCommit
- ➢ CodeDeploy
- ➢ Assisted Practice: CodeDeploy
- ➢ Docker and CodeBuild
- ➢ Assisted Practice: Docker and CodeBuild
- ➢ Introduction to CLoudFormation
- ➢ Assisted Practice: CloudFormation
- ➢ Deploying using ElasticBeanstalk
- ➢ QnA Knowledge Checks
- ➢ Lesson End Project