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AWS Development Certification Training enables the delegates to enhance their knowledge and skills with Amazon Web Services cloud platform to develop and robust cloud applications. During the course, the delegates will learn how to design scalable applications, write AWS code, deploy application security and testing, and with improving their proficiency in key AWS components including S3, Elastic Beanstalk, Dynamo DB, CloudFormation and many more. The course also provides understanding of fundamentals of AWS, connecting applications and data with event-driven processing and developing and implementing secure, scalable applications.

Prerequisites

To attend AWS Development Certification Training, the delegate should be familiar with AWS services. In addition, knowledge of Java, C#/.Net or Python can be beneficial.

Course Objectives

After the course, the delegates will be able to:

- Effectively install and configure SDKs and IDE toolkits
- Make use of security models for managing access to AWS
- Gain knowledge about deployment models and usage with AWS
- Ensure bug-free applications by solving common applications problems through testing and other related practices

Module 1: Introduction

- Introducing AWS Developer
- Developing on AWS
- Large Data Stores Design
- Storage Solutions

Module 2: Identity Access Management

- Overview of Identity Access Management (IAM)
- Security Token Service

Module 3: Elastic Compute Cloud (EC2)

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- Volume Types
- AWS Command Line Interface (CLI)
- Elastic Load Balancers
- Amazon Lambda

Module 4: Simple Storage Service (S3)

- The Fundamentals of S3
- Creating with S3
- Serverless Webpages
- Managing Versions
- Cross Region Replication
- Management of Lifecycles
- Cloud Front
- Serving Public Content Using CloudFront
- Access Logs
- Invalidation
- AWS Security

Module 5: The Fundamentals of Databases

- DynamoDB
- Amazon Relational Database Service (RDS)

Module 6: DynamoDB

- Introducing DynamoDB
- Tables
- DynamoDB: Data Types
- DynamoDB: Types of Indexing
- Confditional Update and Concurrency Control
- DynamoDB Security
- NoSQL Databases
- CAP Theorem
- Consistency at Read Time
- Pre-Provision Capacity
- Data Model Concepts and Data Types
- Choose Index Key
- Local and Global Secondary Index

Module 7: Simple Services

- Introducing Simple Queue Service (SQS)
- Simple Notification Service (SNS)
- AWS Simple WorkFlow (SWF)

Module 8: Final Concepts

- AWS CloudFormation
- Domain Name System (DNS)
- Getting Started with Route 53
- Latency Based Routing
- Geographic Routing with Geo DNS
- Weighted Resource Record Sets

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- Failover Routing
- Amazon VPC
- VPC Networking Fundamentals
- Elastic Network Interface
- VPC Peering
- Routing Inside VPC
- Exploring Auto Scaling
- Auto Scaling Termination Policy
- Customising Termination Policy
- Scaling
- Scaling Cooldown
- Instance Termination Protection
- Auto Scaling Lifecycle Hooks
- Considerations when Using Lifecycle Hooks

Exam Preparation

- Practice Assignments
- Live Projects
- Practice Labs
- Familiarising yourself with the exam format

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