AZ-020T00: Microsoft® Azure® Solutions for AWS Developers

Duration: 3 Days
Method: Instructor-Led Training (ILT) | Live Online Training

Certification: *Microsoft Certified: Azure Developer Associate —*
Exam: *AZ-204: Developing Solutions for Microsoft Azure*

Course Description

This course is designed to teach participants how to prepare end-to-end solutions in Microsoft Azure. In this course, participants will construct Azure App Service Web App solutions and Azure Functions, use blob or Cosmos DB storage in solutions, implement secure cloud solutions that include user authentication and authorization, implement API management, and develop event- and message-based solutions, monitor, troubleshoot, and optimize their Azure solutions. They will also learn how developers use Azure services, with additional focus on features and tasks that differ from AWS, and what that means for them as they develop applications that will be hosted by using Azure services.

Target Audience

This course is intended for:

- Experienced AWS developers interested in Azure development

Prerequisites

To attend this course, candidates must have:

- **One to Two (1-2)** years of professional development experience and experience with AWS.
- Programming skills in an Azure Supported Language.

Course Objectives

Upon successful completion of this course, attendees will be able to:

- Learn how to optimize and monitor Azure Solutions.
- Develop message-based solutions.
- Implement Application Program Interface (API) functionalities.
- Implement safe cloud solutions.
- Implement authorization and user authentication.

Course Objectives *(Continued)*

- Develop solutions that utilize storages such as Cosmos DB.
- Implement the Microsoft Azure functionalities.
- Create Web applications for Azure services.
- Develop solutions that utilize Blob storages.

Course Topics

Module 1: Create Azure App Service Web Apps

- Azure App Service Core Concepts
- Creating an Azure App Service Web App
- Configuring and Monitoring App Service Apps
- Scaling App Service Apps
- Azure App Service Staging Environments

Module 2: Implement Azure Functions

- Azure Functions Overview
- Developing Azure Functions
- Implement Durable Functions

Module 3: Develop Solutions That Use Blob Storage

- Azure Blob Storage Core Concepts
- Managing the Azure Blob Storage Lifecycle
- Working with Azure Blob Storage
- Create an Azure Resource Manager Template

Module 4: Develop Solutions That Use Cosmos DB Storage

- Azure Cosmos DB Overview
- Azure Cosmos DB Data Structure
- Working with Azure Cosmos DB Resources and Data
- Create and Deploy ARM Templates

Module 5: Create and Deploy Azure Resource Manager (ARM) Templates

- Create and Deploy ARM Templates

Module 6: Implement User Authentication and Authorization

- Implementing Microsoft Identity Platform
- Implement Microsoft Authentication Library
- Secure App Configuration Data by Using Azure App Configuration

Course Topics *Continued*

Module 7: Implement Secure Cloud Solutions

- Manage Keys, Secrets, and Certificates by Using the Key Vault API
- Implement Managed Identities for Azure Resources
- Secure App Configuration Data by Using Azure App Configuration

Module 8: Implement API Management

- Implement API Management
- Defining Policies for APIs
- Securing your APIs

Module 9: Develop Event-Based Solutions

- Implement Azure Event Grid
- Implement Azure Event Hubs
- Implement Azure Notification Hub

Module 10: Develop Message-Based Solutions

- Implement Solutions That Use Azure Service Bus
- Implement Solutions That Use Azure Queue Storage queues

Module 11: Monitor and Optimize Azure Solutions

- Applications of Azure Application Insights
- Instrument an App for Monitoring

LABS INCLUDED