

## **AZ-020T00: Microsoft Azure solutions for AWS developers Training**

Duration: 3 Days

### **Course Content:**

AZ-020T00: Microsoft Azure solutions for AWS developers training helps professionals build end-to-end solutions in Microsoft Azure. This technical course allows one to develop Azure App Service Web Application solution and Azure functions. Trainees will learn to utilize blob or Cosmos DB storage in solutions. Implement API management, implement protected cloud solutions that incorporate user authorization and authentication. This course is perfect for experienced AWS developers who are interested in Azure development. AZ-020T00: Microsoft Azure solutions for AWS developers teaches building a message and event-based solutions, and troubleshooting, monitoring, and optimizing Azure solutions. Individuals will learn how expert developers utilize Azure services, with extra focus on tasks and features that are not like AWS.

This training is designed based on the objectives of the course variant AZ-020T00-A.

### **Prerequisites for this training**

The compulsory prerequisite for this training is for students having 1-2 years of professional development experience with Amazon Web Services (AWS). Also, it's mandatory to have knowledge of a programming language which are used in Microsoft Azure.

### **Who should attend this course?**

This training is intended for students having experience as AWS developers. However, professionals having deep interest in Azure Development can also sign up for this certification.

### **What you will learn**

- Learn how to optimize and monitor Azure Solutions.
- Developing message-based solutions.
- Implementing Application Program Interface (API) functionalities.
- Implementing safe cloud solutions.
- Implementing authorization and user authentication.
- Developing solutions that utilize storages such as Cosmos DB.
- Implementing the Microsoft Azure functionalities.
- Creating Web applications for Azure services.
- Developing solutions that utilizes Blob storages.

### **Curriculum**

#### **Module 1: Create Azure App Service Web Apps**

Students will learn how to build a web application on the Azure App Service platform. They will learn how the platform functions and how to create, configure, scale, secure, and deploy to the App Service platform.

#### **Lesson**

- 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**

This module covers creating Functions apps, and how to integrate triggers and inputs/outputs into the app.

### **Lesson**

- Azure Functions overview
- Developing Azure Functions
- Implement Durable Functions

## **Module 3: Develop solutions that use blob storage**

Students will learn how Azure Blob storage works, how to manage data through the hot/cold/archive blob storage lifecycle, and how to use the Azure Blob storage client library to manage data and metadata. Also, students will learn how to create an ARM (Azure Resource Manager) Template.

### **Lesson**

- 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**

Students will learn how Cosmos DB is structured and how data consistency is managed. Students will also learn how to create Cosmos DB accounts and create databases, containers, and items by using a mix of the Azure Portal and the .NET SDK.

### **Lesson**

- 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**

Students will learn how to create and deploy Azure Resource Manager templates that can be used to speed new deployment and create consistency across resources.

### **Lesson**

- Create and deploy ARM templates

## **Module 6: Implement user authentication and authorization**

Students will learn how to leverage the Microsoft Identity Platform v2.0 to manage authentication and access to resources. Students will also learn how to use the Microsoft Authentication Library and Microsoft Graph to authenticate a user and retrieve information stored in Azure, and how and when to use Shared Access Signatures.

### **Lesson**

- Implementing Microsoft identity platform
- Implement Microsoft Authentication Library
- Secure app configuration data by using Azure App Configuration

## **Module 7: Implement secure cloud solutions**

This module covers how to secure the information (keys, secrets, certificates) an application uses to access resources. It also covers securing application configuration information.

### **Lesson**

- Manage keys, secrets, and certificates by using the KeyVault API
- Implement Managed Identities for Azure resources
- Secure app configuration data by using Azure App Configuration

## **Module 8: Implement API Management**

Students will learn how to publish APIs, create policies to manage information shared through the API, and to manage access to their APIs by using the Azure API Management service.

### **Lesson**

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

## **Module 9: Develop event-based solutions**

Students will learn how to build applications with event-based architectures.

### **Lesson**

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

## **Module 10: Develop message-based solutions**

Students will learn how to build applications with message-based architectures.

### **Lesson**

- Implement solutions that use Azure Service Bus
- Implement solutions that use Azure Queue Storage queues

## **Module 11: Monitor and optimize Azure solutions**

This module teaches students how to instrument their code for telemetry.

### **Lesson**

- Applications of Azure Application Insights
- Instrument an app for monitoring

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