AZ-204T00: Developing Solutions for Microsoft Azure

Course Description

This course teaches developers how to create end-to-end solutions in Microsoft Azure. Students will learn how to implement Azure compute solutions, create Azure Functions, implement and manage web apps, develop solutions utilizing Azure storage, implement authentication and authorization, and secure their solutions by using KeyVault and Managed Identities.

Students will also learn how to connect to and consume Azure services and thirdparty services, and include event- and message-based models in their solutions. The course also covers monitoring, troubleshooting, and optimizing Azure solutions.

Course Duration

5 days

Prerequisites

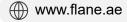To be successful in this course, learners should have the following:

- Hands-on experience with Azure IaaS and PaaS solutions, and the Azure Portal.
- Experience writing in an Azure supported language at the intermediate level. (C#, JavaScript, Python, or Java)
- Ability to write code to connect and perform operations on, a SQL or NoSQL database product. (SQL Server, Oracle, MongoDB, Cassandra or similar)
- Experience writing code to handle authentication, authorization, and other security principles at the intermediate level.
- A general understanding of HTML, the HTTP protocol and REST API interfaces.

If you are new to Azure and cloud computing, consider one of the following resources:

- Free online: Azure Fundamentals (https://docs.microsoft.com/enus/learn/paths/azure-fundamentals/)
- Instructor-led course: AZ-900: Azure Fundamentals (https://docs.microsoft.com/enus/learn/certifications/courses/az-900t01)

Course Outline

- Configure Azure Active Directory.
- Explore Azure App Service
- Configure web app settings
- Scale apps in Azure App Service
- Explore Azure App Service deployment slots
- Explore Azure Functions
- Develop Azure Functions
- Implement Durable Functions
- Explore Azure Blob storage
- Manage the Azure Blob storage lifecycle
- Work with Azure Blob storage

- Explore Azure Cosmos DB
- Implement partitioning in Azure Cosmos DB
- Work with Azure Cosmos DB
- Provision virtual machines in Azure
- Create and deploy Azure Resource Manager templates
- Manage container images in Azure Container Registry
- Run container images in Azure Container Instances
- Explore the Microsoft identity platform
- Implement authentication by using the Microsoft Authentication Library • Implement shared access signatures
- Explore Microsoft Graph
- Implement Azure Key Vault
- Implement managed identities
- Implement Azure App Configuration
- Explore API Management
- Explore Azure Event Grid
- Explore Azure Event Hubs
- Discover Azure message queues
- Monitor app performance
- Develop for Azure Cache for Redis
- Develop for storage on CDNs

Who Should Attend

Students in this course are interested in Azure development or in passing the Microsoft Azure Developer Associate certification exam.