

AZ-204 – Developing Solutions for Microsoft Azure

Overview

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.

Course Objectives

- Develop Azure Compute Solutions
- Develop for Azure Storage
- Implement Azure Security
- Monitor, Troubleshoot and Optimize Azure Solutions
- Connect and Consume Azure and Third-Party Services
- Develop for Azure Infrastructure as a Service (IaaS)
- Develop for Azure Platform as a Service (PaaS)

Duration

5 Days

Who Should Attend

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

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Course Topics

Module 1	Creating 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
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
Module 5	Implement IaaS Solutions • Provisioning VMs in Azure • Create and deploy ARM templates • Create container images for solutions • Publish a container image to Azure Container Registry • Create and run container images in Azure Container Instances
Module 6	Implement User Authentication and Authorization • Microsoft Identity Platform v2.0 • Authentication using the Microsoft Authentication Library • Using Microsoft Graph • Authorizing data operations in Azure Storage

AZ-204 – Developing Solutions for Microsoft Azure

Module 7	Implement Secure Cloud Solutions • 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 • API Management overview • Defining policies for APIs • Securing your APIs
Module 9	Develop App Service Logic Apps • Azure Logic Apps overview • Creating custom connectors for Logic Apps
Module 10	Develop Event-Based Solutions • Implement solutions that use Azure Event Grid • Implement solutions that use Azure Event Hubs • Implement solutions that use Azure Notification Hubs
Module 11	Develop Message-Based Solutions • Implement solutions that use Azure Service Bus • Implement solutions that use Azure Queue Storage queues
Module 12	Monitor and Optimize Azure Solutions • Overview of monitoring in Azure • Instrument an app for monitoring • Analyzing and troubleshooting apps • Implement code that handles transient faults
Module 13	Integrate Caching and Content Delivery within Solutions • Develop for Azure Cache for Redis • Develop for storage on CDNs