

Microsoft Azure AZ-204 Course Content

SECTION 1: Develop Azure compute solutions (25-30%)

Implement IaaS solutions

- Provision VMs
- create ARM templates
- create container images for solutions
- publish an image to the Azure Container Registry
- run containers by using Azure Container Instance

SECTION 2: Create Azure App Service Web Apps

- create an Azure App Service Web App
- enable diagnostics logging
- deploy code to a web app
- configure web app settings
- implement autoscaling rules (schedule, operational/system metrics)

SECTION 3: Implement Azure functions

- implement input and output bindings for a function
- implement function triggers by using data operations, timers, and webhooks
- implement Azure Durable Functions

SECTION 4: Develop for Azure storage (10-15%)

Develop solutions that use Cosmos DB storage

- select the appropriate API for your solution
- implement partitioning schemes
- interact with data using the appropriate SDK
- set the appropriate consistency level for operations
- create Cosmos DB containers

SECTION 5: Develop solutions that use blob storage

- move items in Blob storage between storage accounts or containers
- set and retrieve properties and metadata
- interact with data using the appropriate SDK
- implement data archiving and retention

SECTION 6: Implement Azure security (15-20%)

Implement user authentication and authorization

- implement OAuth2 authentication
- create and implement shared access signatures
- register apps and use Azure Active Directory to authenticate users

SECTION 7: Implement secure cloud solutions

- secure app configuration data by using the App Configuration and KeyVault API
- manage keys, secrets, and certificates by using the KeyVault API
- implement Managed Identities for Azure resources

SECTION 8: Monitor, troubleshoot, and optimize Azure solutions (10-15%)

Integrate caching and content delivery within solutions

- develop code to implement CDN's in solutions
- configure cache and expiration policies
- store and retrieve data in Azure Redis cache

SECTION 9: Instrument solutions to support monitoring and logging

- configure instrumentation in an app or service by using Application Insights
- analyze and troubleshoot solutions by using Azure Monitor
- implement Application Insights Web Test and Alerts
- implement code that handles transient faults

SECTION 10: Connect to and consume Azure services and third-party services (25- 30%)

Develop an App Service Logic App

- create a Logic App
- create a custom connector for Logic Apps

- create a custom template for Logic Apps

SECTION 11: Implement API Management

- create an APIM instance
- configure authentication for APIs
- define policies for APIs

SECTION 12: Develop event-based solutions

Creating event models is in scope

- implement solutions that use Azure Event Grid
- implement solutions that use Azure Notification Hubs
- implement solutions that use Azure Event Hub

SECTION 13: Develop message-based solutions

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



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