

# Microsoft Certified Azure Developer Associate (AZ-203 = AZ-200 + AZ-201) Course Agenda

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## Module 1: Develop Azure Infrastructure as a Service Compute Solutions

- Implement solutions that use virtual machines (VM)
  - Provision VMs
  - Create ARM templates
  - Configure Azure Disk Encryption for VMs
- Implement batch jobs by using Azure Batch Services
  - Manage batch jobs by using Batch Service API
  - Run a batch job by using Azure CLI, Azure portal, and other tools
  - Write code to run an Azure Batch Services batch job
- Create containerized solutions
  - Create an Azure Managed Kubernetes Service (AKS) cluster
  - Create container images for solutions
  - Publish an image to the Azure Container Registry
  - Run containers by using Azure Container Instance or AKS

## Module 2: Develop the Azure Platform as a Service Compute Solutions

- Create Azure App Service Web Apps
  - Create an Azure App Service Web App
  - Create an Azure App Service background task by using WebJobs
  - Enable diagnostics logging
- Create Azure App Service mobile apps
  - Add push notifications for mobile apps
  - Enable offline sync for mobile app
  - Implement a remote instrumentation strategy for mobile devices
- Create Azure App Service API apps
  - Create an Azure App Service API app

- Create documentation for the API by using open source and other tools
- 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
  - Create Azure Function apps by using Visual Studio

### Module 3: Develop for Azure storage

- Develop solutions that use storage tables
  - Design and implement policies for tables
  - Query table storage by using code
  - Implement partitioning schemes
- Develop solutions that use Cosmos DB storage
  - Create, read, update, and delete data by using appropriate APIs
  - Implement partitioning schemes
  - Set the appropriate consistency level for operations
- Develop solutions that use a relational database
  - Provision and configure relational databases
  - Configure elastic pools for Azure SQL Database
  - Create, read, update, and delete data tables by using code
- Develop solutions that use blob storage
  - Move items in blob storage between storage accounts or containers
  - Set and retrieve properties and metadata
  - Implement blob leasing
  - Implement data archiving and retention

## Module 4: Implement Azure security

- Implement authentication
  - Implement authentication by using certificates, forms-based authentication, or tokens
  - Implement multi-factor or Windows authentication by using Azure AD
  - Implement OAuth2 authentication
  - Implement Managed Service Identity (MSI)/Service Principal authentication
- Implement access control
  - Implement CBAC (Claims-Based Access Control) authorization
  - Implement RBAC (Role-Based Access Control) authorization
  - Create shared access signatures
- Implement secure data solutions
  - Encrypt and decrypt data at rest and in transit
  - Create, read, update, and delete keys, secrets, and certificates by using the KeyVault API

## Module 5: Monitor, troubleshoot, and optimize Azure solutions

- Develop code to support scalability of apps and services
  - Implement autoscaling rules and patterns
  - Implement code that handles transient faults
- Integrate caching and content delivery within solutions
  - Store and retrieve data in Azure Redis cache
  - Develop code to implement CDNs in solutions
  - Invalidate cache content (CDN or Redis)
- 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

## Module 6: Connect to and Consume Azure Services and Third-party Services

- Develop an App Service Logic App
  - Create a Logic App
  - Create a custom connector for Logic Apps
  - Create a custom template for Logic Apps
- Integrate Azure Search within solutions
  - Create an Azure Search index
  - Import searchable data
  - Query the Azure Search index
- Establish API Gateways
  - Create an APIM instance
  - Configure authentication for APIs
  - Define policies for APIs
- Develop event-based solutions
  - Implement solutions that use Azure Event Grid
  - Implement solutions that use Azure Notification Hubs
  - Implement solutions that use Azure Event Hub
- Develop message-based solutions
  - Implement solutions that use Azure Service Bus
  - Implement solutions that use Azure Queue Storage queues

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