

## Developing Solutions for Microsoft Azure

### Referencia

AZ-203

### Duración (horas)

36

### Última actualización

19 marzo 2019

### Modalidades

Presencial, OpenClass®, a medida, E-learning

### Examen

AZ-203

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## Introducción

This exam is the only requirement for Microsoft Certified Azure Developer Associate certification. Microsoft Azure Developers design, build, test, and maintain cloud solutions, such as applications and services, partnering with cloud solution architects, cloud DBAs, cloud administrators, and clients to implement these solutions.

## Objetivos

This exam measures your ability to accomplish the technical tasks listed below:

- Develop Azure Infrastructure as Service Compute Solutions
- Develop Azure Platform as Service Compute Solutions
- Develop for Azure storage
- Implement Azure security
- Monitor, troubleshoot, and optimize Azure solutions
- Connect to and Consume Azure Services and Third-party Services

## Documentación

The students will receive a digital copy of each courses related to this exam.

## Contenidos

### Course AZ-203T01: Develop Azure Infrastructure as a Service Compute Solutions

#### 1. Implement solutions that use virtual machines (VM)

- Provision VMs
- Create ARM templates
- Configure Azure Disk Encryption for VMs

**Barcelona** Carrer Almogàvers 123, 08018 Barcelona / T. +34 933 041 720 / F. +34 933 041 722

**Madrid** Plaza de Carlos Trías Bertrán 7, 1ª Planta (Edificio Sollube), 28020 Madrid / T. +34 914 427 703

## 2. 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

## 3. 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

## Course AZ-203T02: Develop Azure Platform as a Service Compute Solutions

### 1. 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

### 2. 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

### 3. 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

### 4. 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

## Course AZ-203T03: Develop for Azure storage

### 1. Develop solutions that use storage tables

- Design and implement policies for tables
- Query table storage by using code

- Implement partitioning schemes

## 2. 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

## 3. 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

## 4. 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

## Course AZ-203T04: Implement Azure security

### 1. 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

### 2. Implement access control

- Implement CBAC (Claims-Based Access Control) authorization
- Implement RBAC (Role-Based Access Control) authorization
- Create shared access signatures

### 3. 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

## Course AZ-203T05: Monitor, troubleshoot, and optimize Azure solutions

### 1. Develop code to support scalability of apps and services

- Implement autoscaling rules and patterns
- Implement code that handles transient faults

## 2. 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)

## 3. 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 Tests and Alerts

## Course AZ-203T06: Connect to and Consume Azure Services and Third-party Services

### 1. Develop an App Service Logic App

- Create a Logic App
- Create a custom connector for Logic Apps
- Create a custom template for Logic Apps

### 2. Integrate Azure Search within solutions

- Create an Azure Search index
- Import searchable data
- Query the Azure Search index

### 3. Establish API Gateways

- Create and APIM instance
- Configure authentication for APIs
- Define policies for APIs

### 4. 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

### 5. Develop message-based solutions

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

## Acreditación

Se emitirá Certificado de Asistencia sólo a los alumnos con una asistencia superior al 75% y Diploma aprovechamiento si superan también la prueba de evaluación.