

## Microsoft Azure Architect Technologies

**Referencia**

AZ-300

**Duración (horas)**

30

**Última actualización**

8 febrero 2019

**Modalidades**

a medida

**Examen**

AZ-300

**Certificación**

AZ-300

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## Introducción

This exam is part of requirements for Microsoft Certified Azure Solutions Architect certification. An Azure Architect advise stakeholders and translates business requirements into secure, scalable, and reliable solutions.

## Objetivos

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

- Deploy and Configure Infrastructure
- Implement Workloads and Security
- Architect Cloud Technology Solutions
- Create and Deploy Apps
- Implement Authentication and Secure Data
- Develop for the Cloud

## Documentación

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

## Contenidos

### Course AZ-300T01: Deploying and Configuring Infrastructure

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

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

## 1. Managing Azure Subscriptions and Resources

- Exploring Monitoring Capabilities in Azure
- Azure Alerts
- Azure Activity Logs
- Introduction to Log Analytics
- Querying and Analyzing Log Analytics Data

## 2. Implement and Managing Storage

- Azure Storage Accounts
- Data Replication
- Azure Storage Explorer
- Storing and Accessing Data
- Monitoring Storage

## 3. Deploying and Managing Virtual Machines (VMs)

- Creating Virtual Machines in the Azure Portal
- Creating Virtual Machines (PowerShell)
- Creating Virtual Machines using ARM Templates
- Deploying Custom Images
- Deploying Linux Virtual Machines
- Backup and Restore
- Monitoring Virtual Machines

## 4. Configuring and Managing Virtual Networks

- Creating Azure Virtual Networks
- Review of IP Addressing
- Network Routing
- Intersite Connectivity
- Virtual Network Peering

## 5. Managing Identities

- Managing Azure Active Directory (AAD)
- Implementing and Managing Hybrid Identities

## Course AZ-300T02: Implementing Workloads and Security

### 1. Evaluating and Performing Server Migration to Azure

- Migrate to Azure
- Azure Migrate Process
- Overview of Azure Site Recovery (ASR)
- Preparing the Infrastructure

- Completing the Migration Process

## **2. Implementing and Managing Application Services**

- Deploying Web Apps
- Managing Web Apps
- App Service Security
- Serverless Computing Concepts
- Managing Azure Functions
- Managing Event Grid
- Managing Service Bus
- Managing Logic App

## **3. Implementing Advanced Virtual Networking**

- Azure Load Balancer
- Azure Application Gateway
- Site-to-Site VPN Connections
- ExpressRoute

## **4. Securing Identities**

- Azure AD Identity Protection
- Azure Domains and Tenants
- Azure Users and Groups
- Azure Roles
- Azure AD Integration Options

## **Course AZ-300T03: Understanding Cloud Architect Technology Solutions**

### **1. Selecting Compute and Storage Solutions**

- Design and Connectivity Patterns

### **2. Hybrid Networking**

- Hybrid Networking
- Virtual Network-to-Network

### **3. Measure Throughput and Structure of Data Access**

- Address Durability of Data and Caching
- Measure Throughput and Structure of Data Access

## Course AZ-300T04: Creating and Deploying Apps

### 1. Creating Web Applications using PaaS

- Introduction to Web Apps
- Using shell commands to create an App Service Web App
- Creating Background Tasks
- Using Swagger to document an API
- Creating an App Service Logic App

### 2. Creating Apps and Services Running on Service Fabric

- Understanding Azure Service Fabric
- Creating a reliable service
- Creating a Reliable Actors app
- Working with Reliable Collections

### 3. Using Azure Kubernetes Service

- Creating an Azure Kubernetes Service Cluster
- Azure Container Registry
- Azure Container Instances

## Course AZ-300T05: Implementing Authentication and Secure Data

### 1. Implementing Authentication

- Implement authentication in applications
- Implement multi-factor authentication
- Claims-based authorization
- Role-based access control (RBAC) authorization

### 2. Implementing Secure Data

- Encryption options
- End-to-end encryption
- Implement Azure confidential computing
- Implement SSL and TLS communications
- Manage cryptographic keys in Azure Key Vault

## Course AZ-300T06: Developing for the Cloud

### 1. Developing Long-Running Tasks and Distributed Transactions

- Implement large-scale, parallel, and high-performance apps by using batches
- Implement resilient apps by using queues
- Implement code to address application events by using webhooks

### 2. Configuring a Message-Based Integration Architecture

- Configure an app or service to send emails
- Configure an event publish and subscribe model
- Configure the Azure Relay service
- Create and configure a notification hub
- Create and configure an event hub
- Create and configure a service bus
- Configuring apps and services with Microsoft Graph

### 3. Developing for Asynchronous Processing

- Implement parallelism, multithreading, and processing
- Implement Azure Functions and Azure Logic Apps
- Implement interfaces for storage or data access
- Implement appropriate asynchronous computing models
- Implement code that addresses single application instances
- Implement code that addresses a transient state

### 4. Developing for Autoscaling

- Implement autoscaling rules and patterns
- Implement code that addresses singleton application instances
- Implement code that addresses a transient state

### 5. Developing Azure Cognitive Services Solutions

- Cognitive Services Overview
- Develop Solutions using Computer Vision
- Develop Solutions using Bing Web Search
- Develop Solutions using Custom Speech Service
- Develop Solutions using QnA Maker
- Working with the Azure IoT Hub

## 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.