Track AZ-200: Microsoft Azure Developer Core Solutions

- **Formato do curso:** Presencial
- **Localidade:** Porto
- **Data:** 20 Mai. 2019 a 23 Mai. 2019
- **Preço:** 1350€
- **Promoção:** -200€
  Aproveite a campanha até 30 de junho: 200€ de desconto com oferta do exame AZ203
- **Horário:** Laboral - das 09h30 às 17h30
- **Duração:** 28 horas

The coursework covers:

- Azure architecture, design and connectivity patterns, and choosing the right storage solution for your development needs.
- The coursework covers developing solutions leveraging Azure Storage options including: Cosmos DB, Azure Storage tables, file storage, Blob, relational databases, and caching and content delivery networks.
- The coursework covers solutions for: creating App Service Web Apps; notification and offline sync for mobile apps; Service Fabric; serverless Azure Functions; managing bulk operations through the Batch Service API; Azure Kubernetes Service; and Azure Media Services.
- The coursework covers how authentication and authorization work in Azure, and how to implement secure data solutions with: encryption; Azure Key Vault; and SSL and TLS communications.

O valor deste curso não inclui o valor do exame.

Destinatários

This course is for experienced programmers who want to develop and host solutions in Azure. Learners should have some experience with Azure and must be able to program in at least one Azure-supported language. It focus on C#, Node.js, Azure CLI, Azure PowerShell, and JavaScript.

Pré-requisitos

Learners should have some experience with Azure and must be able to program in at least one Azure-supported language. This course focus on C#, Node.js, Azure CLI, Azure PowerShell, and JavaScript.

Objectivos

- Learn common Azure application design and connectivity patterns
- Measuring and planning throughput, and data access structure
- Learn about Azure networking topologies
- Connect to storage in Azure
- Design and implement policies to Tables
- Create, read, update, and delete tables by using code
- Develop for Azure Redis cache and content delivery networks
- Develop solutions that use blob storage
- Create an Azure app service web app by using Azure CLI, Powershell, and other tools
- Create documentation for the API by using open source and other tools
- Add push notifications and enable offline sync for mobile apps
- Develop stateful and stateless apps on Service Fabric
- Create Azure functions including bindings and triggers
- Define and run scheduled bulk operations
- Create an Azure Container Service (ACS/AKS) cluster using Azure CLI and Azure Portal
- Develop media solutions that use AI services
- Learn about the different authentication options, including multi-factor, available in Azure and how they operate
- Learn about implementing access control in your solution including claims- and role-based authorization
- Implement secure data solutions by using encryption, Azure confidential computing, and SSL/TLS communications
- Manage cryptographic keys in Azure Key Vault

Programa

Select an appropriate compute solution

Lessons

- Take advantage of appropriate design and connectivity patterns
- After completing this module, students will be able to:
- Learn common Azure application design and connectivity patterns

Design for hybrid technologies

Lessons

- Virtual networking
- Hybrid networking

Select an appropriate storage solution

Lessons

- Address durability of data
- Caching
- Measure and plan throughput and structure of data access

Develop solutions that use Azure Storage tables

Lessons

- Connect to Azure Storage
- Design and Implement Storage tables
- Query a table by using code

Develop solutions that use Azure Cosmos DB storage Azure Cosmos DB

Lessons

- Choose the appropriate API for Cosmos DB storage
- Manage containers and items in Cosmos DB storage
- Create, read, update, and delete documents in Azure Cosmos DB by using code

Develop solutions that use file storage

Lessons

- Implement file shares for an Azure storage account
- Migrating content to and between file shares

Develop solutions that use a relational database

Lessons

- Create, read, update, and delete database tables by using code
- Implement SQL Dynamic Data Masking

Develop solutions that use Microsoft Azure Blob storage

Lessons

- Create a Shared Access Signature for a blob
- Asynchronously move items in Blob storage between containers
- Set Blob storage container properties in metadata

Develop for caching and content delivery solutions

Lessons

- Azure Redis Cache
- Develop for storage on CDNs

Creating App Service Web Apps

Lessons

- Introduction to Web Apps
- Using shell commands to create App Service Web Apps
- Creating background tasks using WebJobs in Azure App Service
- Using Swagger to document an API

Creating mobile apps

Lessons

- Getting started with mobile apps in App Service
- Enabling push notifications for your app
- Enabling offline sync for your app

Creating an app service Logic App

Lessons

- Overview of Azure Logic Apps
- Creating a Logic App
- Creating custom connectors for Logic Apps
- Creating a custom template for a Logic App

Creating an app or service that runs on Service Fabric

Lessons

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

Creating Azure Functions

Lessons

- Azure Functions overview
- Develop Azure Functions using Visual Studio
- Triggers and bindings

Scheduling bulk operations

Lessons

- Azure Batch overview
- Running Batch jobs
- Using the .NET Batch Management client library

Create solutions that use Azure Kubernetes Service

Lessons

- Creating an Azure Kubernetes Service cluster
- Azure Container Registry
- Azure Contaner Instances

Developing apps for Azure Media Services

Lessons

- Introduction to Azure Media Services
- Azure Media Services v3 concepts
- Upload, encode, and stream with .NET
- Analyze your video with .NET

Implementing authentication

Lessons

- Implement authentication in applications
- Implement multi-factor authentication

Implementing access control

Lessons

- Claims-based authorization
- Role-based access control (RBAC) authorization

Implementing secure data solutions

Lessons

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