altkom akademia

Develop Solutions for Microsoft Azure

Authorized training Microsoft Developing Solutions for Microsoft Azure **AZ-204 on-line** course. This course is for **developers.**

Training recipients

The training is intended for:

- developer
- people interested in taking Microsoft Azure Developer Associate certification exam.

At the training developers are acquainted with mechanisms of architecting complex Solutions for Microsoft Azure. The participants will find out how to:

- implement calculation solutions for Azure
- create Azure functions
- network application implementations and their management
- architect solutions using Azure storage
- implementing authentication and authorization, as well as securing your solutions using Azure KeyVault
- identity management .

The participants will also find out:

- how to connect with Azure services and third party services, as well as how to make use of them.
- how to architect event-based or message-based solutions.

The training also consists of solutions related to monitoring and solving problems, as well as with optimizing Solutions for Azure.

Benefits

Successful learners AZ-204 will have prior knowledge and understanding of:

- Gaining knowledge
- practical skills from applications development at Azure platform.

Including acquaintance with:

- Azure App Service, how it works, implementing, configurating, scaling, securing

- Azure Functions, how to develop and integrate triggers and connections
- Blob object storage and how to store objects at different layers of access, as well as how to make use of data with Client's library of Blob object storage
- Database service NoSQL Azure Cosmos DB, how to develop and manage databases, how to control data cohesion, as well as how to use data with the combination of Azure portal and .NET SDK set
- Designing virtual machines and containers, including architecting solutions with the use of ARM templates to automate resource implementation, as well as managing containers and publishing images in Azure Container Registry and activating them in Azure Container Instance
- Using Microsoft Identity Platform v2.0 to manage authentication and access resources, including the use of Microsoft Authentication Library and Microsoft Graph to authenticate the user and download the information stored at Azure platform.
- Securing information using Azure KeyVault (keys, secrets and certificates), the applications of which use them to access resources and secure the information about application's configuration
- Publishing API services in API Management service, creating the rules of managing information shared via API interface
- Azure Logic Apps to automate and coordinate tasks, business processes, workflows, and service flows in companies or organizations
- Developing applications with event-based architecture
- Developing applications with message-based architecture
- Code instrumentation for telemetry and the way of analyzing and solving problems with applications
- Using various buffering services in order to improve the performance of your applications

Training program

Learning Path 1: Implement Azure App Service web apps

Module 1: Explore Azure App Service

Module 2: Configure web app settings

Module 3: Scale apps in Azure App Service

Module 4: Explore Azure App Service deployment slots

Learning Path 2: Implement Azure Functions

Module 1: Explore Azure Functions

Module 2: Develop Azure Functions

Learning Path 3: Develop solutions that use Blob storage

Module 1: Explore Azure Blob storage

Module 2: Manage the Azure Blob storage lifecycle

Module 3: Work with Azure Blob storage

Learning Path 4: Develop solutions that use Azure Cosmos DB

Module 1: Explore Azure Cosmos DB

Module 2: Implement partitioning in Azure Cosmos DB

Module 3: Work with Azure Cosmos DB

Learning Path 5: Implement containerized solutions

Module 1: Manage container images in Azure Container Registry

Module 2: Run container images in Azure Container Instances

Module 3: Implement Azure Container Apps

Learning Path 6: Implement user authentication and authorization

Module 1: Explore the Microsoft identity platform

Module 2: Implement authentication by using the Microsoft Authentication Library

Module 3: Implement shared access signatures

Module 4: Explore Microsoft Graph

Learning Path 7: Implement secure cloud solutions

Module 1: Implement Azure Key Vault

Module 2: Implement managed identities

Module 3: Implement Azure App Configuration

Learning Path 8: Implement API Management

Module 1: Explore API Management

Learning Path 9: Develop event-based solutions

Module 1: Explore Azure Event Grid

Module 2: Explore Azure Event Hubs

Learning Path 10: Develop message-based solutions

Module 1: Discover Azure message queues

Learning Path 11: Troubleshoot solutions by using Application Insights

Module 1: Monitor app performance

Expected preparation of the participant

Each student should have 1-2 years of experience as a developer, it is recommended to have knowledge of working with Microsoft Azure.
It is also necessary to know one of the programming languages supported by Microsoft Azure.
An ability to use English materials
Pre-training: AA_10961, AZ-104
To increase the comfort of work and training's effectiveness we suggest using an additional monitor. The lack of additional monitor does not exclude participation in the training, however, it significantly influences the comfort of work during classes.

Training Includes

- manual in electronic form available on the platform: https://learn.microsoft.com/pl-pl/training/
- access to Altkom Akademia's student portal

Language

- Training: English
- Materials: English

Examination method

On-line exam. Record at: https://home.pearsonvue.com/Clients/Microsoft.aspx

Duration

5 days / 35 hours

Examination description

After the AZ-204 course, you can take Microsoft certification exams:an Authorized Test Center,online being monitored by an offsite proctor. Details on the website:https://docs.microsoft.com/en-us/learn/certifications/exams/az-204