training code: AZ-305 / ENG DL 4d / EN

Designing Microsoft Azure Infrastructure Solutions

Designing Microsoft Azure Infrastructure Solutions training prepares IT architects and engineers to design scalable, secure, and high-performance infrastructure solutions in the Microsoft Azure cloud. Participants learn the principles of designing solutions in the areas of compute, networking, storage, security, data integration, business continuity, and migration.
The course covers case studies and Microsoft best practices that help create flexible and resilient cloud architectures tailored to business needs.

Training recipients

The training is intended for IT professionals responsible for designing and implementing cloud environments in Azure, including:

- cloud solutions architects,
- IT infrastructure engineers,
- Azure administrators who want to expand their competencies in architecture,
- consultants and technology advisors who design solutions for business clients,
- individuals preparing for the Microsoft Certified: Azure Solutions Architect Expert certification.

Benefits

- Designing compute solutions – you will learn how to plan and implement compute services in Azure, such as virtual machines, containers, and serverless solutions.
- Data integration and storage – you will learn how to design a data architecture that includes both relational and non-relational databases as well as effective data integration mechanisms.
- Designing secure infrastructure – you will learn how to build solutions based on Azure Active Directory and implement effective authentication and authorization mechanisms.

- Increasing environment resilience – you will learn strategies for backup creation, disaster recovery, and ensuring high availability of infrastructure.
- Designing networking and cloud migration – you will master planning network connectivity, designing routing, and developing migration plans for moving on-premises environments to Azure.

Training program

1: Desgining calculation and applications solutions
- Designing for management
- Designing calculation solutions
- Designing for application architectures

2: Designing solutions for data storage
- Designing non-relative mass storage solutions.
- Desgining relative mass storage solutions.
- Designing solutions for data integration.

3: Designing network and access solutions
- Designing authentication and authorisation solutions
- Designing network solutions

4: Designing solutions providing business continuity
- Designing for creating back-ups and Disaster Recovery
- Designing solutions for monitoring
- Desgining for migration

Expected preparation of the participant

Before attending the course participants must have previous experience in implementing Azure platform resources or administering them or concept knowledge in the area of:
- Azure Active Directory
- Azure platform calculation technologies, such as virtual machines, containers and serverless solutions
- Azure platform virtual network with the modules of balancing overload
- Azure Storage technologies (non-structural and database)
- General concepts of designing applications, such as sending a message or high-availability

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.
You can find information and requirements of participation in Distance Learning trainings at:
https://www.altkomakademia.pl/en/how-it-works/about-courses/

Training Includes

* electronic handbook available at: https://learn.microsoft.com/pl-pl/training/
* access to Altkom Akademia student portal

Training method:

- theory
- demos
- individual laboratories
- 70% theory
- 30% practice

Language

- **Training**: English
- **Materials**: English

Examination method

The exam is on-line. You can enroll at: https://home.pearsonvue.com/Clients/Microsoft.aspx

Duration

4 days / 28 hours

Examination description

After the AZ-305 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-305