

## Develop AI cloud solutions on Azure (AI-200)

Cursusduur: 5 Dagen    Cursuscode: M-AI200    Trainingsmethode: Virtual Learning

### Beschrijving:

#### Create, monitor, and troubleshoot AI solutions on Microsoft Azure.

AI-200 validates the skills required to design, build, and operate cloud-native AI solutions on Microsoft Azure.

It focuses on integrating Azure AI services into scalable applications using containers, serverless compute, event-driven architectures, and vector-enabled data stores.

Learners gain hands-on experience securing, monitoring, and optimizing AI workloads across the full application lifecycle.

The course also covers working with Azure data services that support AI workloads, including designing and querying solutions with Cosmos DB for NoSQL, Azure Database for PostgreSQL with pgvector, and Azure Managed Redis for caching, streaming, and vector search.

By the end of the course, developers will be able to connect services, orchestrate AI workflows, and build secure, scalable, and observable AI driven applications on Azure.

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Virtual Learning

This interactive training can be taken from any location, your office or home and is delivered by a trainer. This training does not have any delegates in the class with the instructor, since all delegates are virtually connected. Virtual delegates do not travel to this course, Global Knowledge will send you all the information needed before the start of the course and you can test the logins.

### Doelgroep:

This course is designed for developers who build backend and AI driven applications on Azure and need practical skills in containerized compute, data services for AI, event driven workflows, and application security and monitoring.

### Doelstelling:

- In this course, students will learn how to:
- Implement Azure compute and containerization patterns to host applications,
- Build serverless APIs with Azure Functions,
- Integrate services using event driven and message based architectures such as Azure Service Bus and Event Grid,
- Connect services,
- Orchestrate AI workflows,
- Build secure, scalable, and observable AI driven applications on Azure.

### Vereiste kennis en vaardigheden:

Learners should have hands on experience with Azure fundamentals and practical knowledge of building cloud applications using containers, serverless compute, and event driven architectures, along with familiarity with core AI concepts and integrating Azure AI services into applications.

### Examens en certificering

None

### Vervolg cursussen:

None

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## Cursusinhoud:

Module 1: Implement container application hosting on Azure

- Store and manage containers in Azure Container Registry
- Deploy containers to Azure App Service

Module 2: Deploy and manage apps on Azure Container Apps

- Deploy containers to Azure Container Apps
- Manage containers in Azure Container Apps
- Scale containers in Azure Container Apps

Module 3: Deploy and monitor applications on Azure Kubernetes Service

- Deploy applications to Azure Kubernetes Service
- Configure applications on Azure Kubernetes Service
- Monitor and troubleshoot applications on Azure Kubernetes Service

Module 4: Develop AI solutions with Azure Cosmos DB for NoSQL

- Build queries for Azure Cosmos DB for NoSQL
- Implement vector search on Azure Cosmos DB for NoSQL
- Optimize query performance for Azure Cosmos DB for NoSQL

Module 5: Develop AI solutions with Azure Database for PostgreSQL

- Build and query with Azure Database for PostgreSQL
- Implement vector search with Azure Database for PostgreSQL
- Optimize vector search in Azure Database for PostgreSQL

Module 6: Enhance AI solutions with Azure Managed Redis

- Implement data operations in Azure Managed Redis
- Implement event messaging with Azure Managed Redis
- Implement vector storage in Azure Managed Redis

Module 7: Integrate backend services for AI solutions

- Queue and process AI operations with Azure Service Bus
- Develop event-driven AI workflows with Azure Event Grid
- Build serverless AI backends with Azure Functions

Module 8: Manage application secrets and configuration for AI solutions

- Manage application secrets with Azure Key Vault
- Manage application settings with Azure App Configuration

Module 9: Observe and troubleshoot apps on Azure

- Instrument an app with OpenTelemetry
- Analyze app telemetry with logs and metrics

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## Extra informatie:

Official course book provided to participants This course is proposed as a replacement for M-AZ204

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## Nadere informatie:

Neem voor nadere informatie of boekingen contact op met onze Customer Service Desk 030 - 60 89 444

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