Design and Implement Microsoft DevOps solutions (AZ-400T00)

ID AZ-400T00 **Price** CHF 3,380.—(excl. VAT) **Duration** 4 days

Who should attend

Students in this course are interested in designing and implementing DevOps processes or in passing the Microsoft Azure DevOps Solutions certification exam.

This course is part of the following Certifications

Microsoft Certified: Azure DevOps Engineer Expert (MCADEE)

Course Content

AZ-400: Development for Enterprise DevOps

- Introduction to DevOps
- Plan Agile with GitHub Projects and Azure Boards
- Design and implement branch strategies and workflows
- Collaborate with pull requests in Azure Repos
- Explore Git hooks
- Plan to foster inner source
- Manage and configure repositories
- Identify technical debt

AZ-400: Implement CI with Azure Pipelines and GitHub Actions

- Explore Azure Pipelines
- Manage Azure Pipeline agents and pools
- Describe pipelines and concurrency
- Design and implement a pipeline strategy
- Integrate with Azure Pipelines
- Introduction to GitHub Actions
- Learn continuous integration with GitHub Actions
- Design a container build strategy

AZ-400: Design and implement a release strategy

- Create a Release Pipeline
- Explore release strategy recommendations
- Configure and Provision Environments
- Manage and Modularize Tasks and Templates
- Automate inspection of health

AZ-400: Implement a secure continuous deployment using Azure Pipelines

- Introduction to deployment patterns
- Implement blue-green deployment and feature toggles
- Implement canary releases and dark launching
- Implement A/B testing and progressive exposure deployment
- Integrate with identity management systems
- Manage application configuration data

AZ-400: Manage infrastructure as code using Azure and DSC

- Explore Infrastructure as Code and configuration management
- Create Azure Resources by using Azure Resource Manager templates
- Create Azure Resources Using Azure CLI
- Explore Azure Automation with DevOps
- Implement Desired State Configuration (DSC)
- Implement Bicep

AZ-400: Implement security and validate code bases for compliance

- Introduction to Secure DevOps
- Implement open-source software
- Software Composition Analysis
- Security monitoring and governance

AZ-400: Design and implement a dependency management strategy

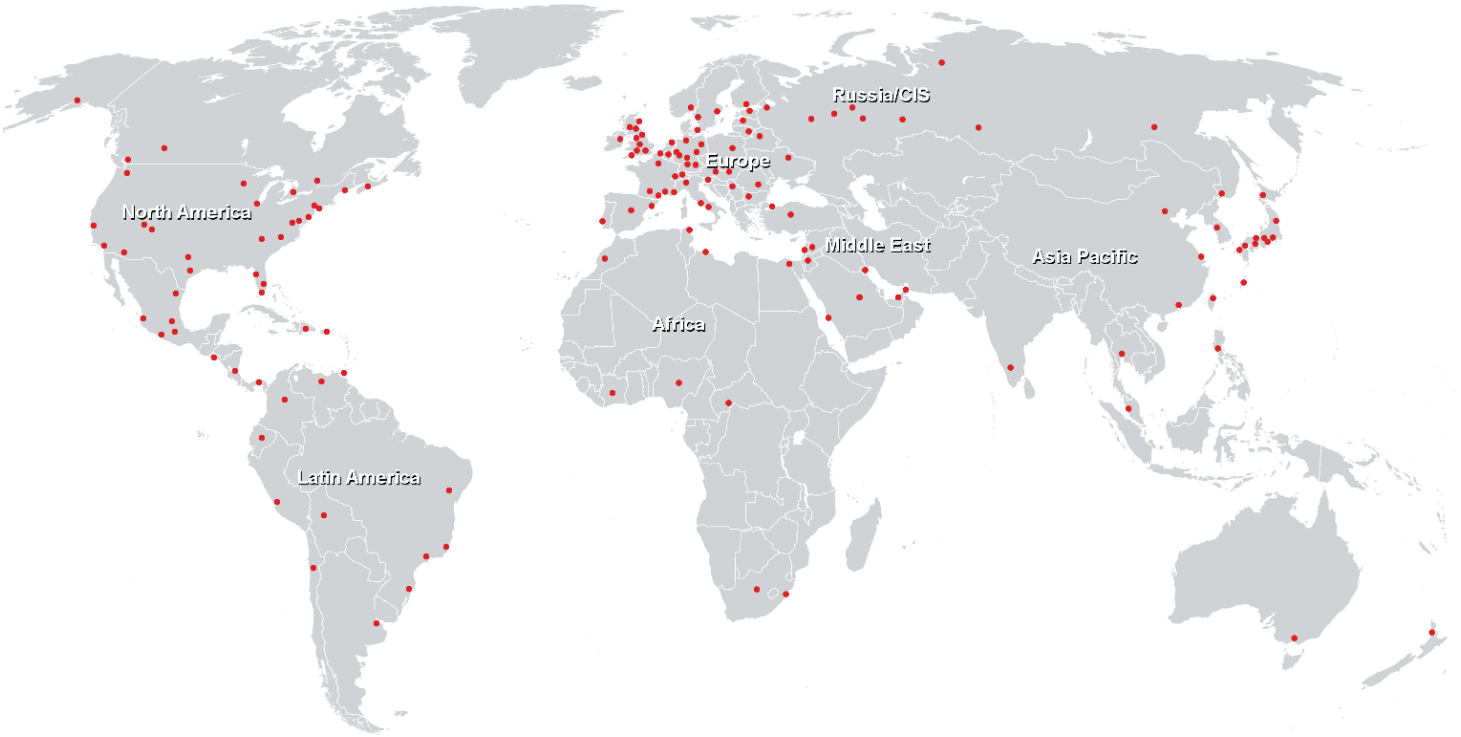
- Explore package dependencies
- Understand package management
- Migrate, consolidate, and secure artifacts
- Implement a versioning strategy
- Introduction to GitHub Packages

AZ-400: Implement continuous feedback

- Implement Tools to Track Usage and Flow
- Develop monitor and status dashboards
- Share knowledge within teams
- Design processes to automate application analytics
- Manage alerts, blameless retrospectives and a just culture

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