

Microsoft AZ-400 Microsoft Azure DevOps Solutions

Microsoft Official Course

AZ-400 Microsoft Azure DevOps Solutions
for

Microsoft Certified: Azure DevOps Engineer Expert



3a Kypca

This course provides the knowledge and skills to implement DevOps processes. Students will learn how to use source control, scale Git for an enterprise, and implement and manage build infrastructure. We will also look at continuous integration, learning how to implement continuous integration in an Azure DevOps pipeline, managing code quality and security principles and implementing a container build strategy.

The course focuses on implementing continuous delivery with students learning how to design a release strategy, set up a release management workflow, and implement an appropriate

deployment pattern, and implementing dependency management where students learn how to design a dependency management strategy and manage security and compliance.

We examine the deployment of application infrastructure in DevOps pipelines – how to implement infrastructure as code and configuration management, how to provision Azure infrastructure using common automation tools, and how to deploy an application infrastructure using various Azure services and deployment methodologies. Students will also learn how to integrate 3rd party deployment tools with Azure, such as Chef and Puppet to incorporate compliance and security into the release pipeline.

Our course provides the knowledge and skills needed to implement continuous feedback, working on how to recommend and design system feedback mechanisms, implement a process for routing system feedback to development teams, and optimize feedback mechanisms.

Finally we will look at designing a DevOps strategy. Students will learn how to plan for transformation, select a project, and create team structures. They will also learn how to develop quality and security strategies, and planning for migrating and consolidating artifacts and source control will also be covered.

Цели

- Describe the benefits of using source control
- Migrate from TFVC to Git
- Scale Git for Enterprise DevOps
- Implement and manage build infrastructure
- Manage application config & secrets
- Implement a mobile DevOps strategy

- Explain why continuous integration matters
- Implement continuous integration using Azure DevOps
- Configure builds and the options available
- Create an automated build workflow
- Integrate other build tooling with Azure DevOps
- Create hybrid build processes
- Describe what is meant by code quality and how it is measured
- Detect code smells
- Integrate automated tests for code quality
- Report on code coverage during testing
- Add tooling to measure technical debt
- Detect open source and other licensing issues
- Implement a container build strategy
- Differentiate between a release and a deployment
- Define the components of a release pipeline
- Explain things to consider when designing your release strategy
- Classify a release versus a release process, and outline how to control the quality of both
- Describe the principle of release gates and how to deal with release notes and documentation
- Explain deployment patterns, both in the traditional sense and in the modern sense
- Choose a release management tool
- Explain the terminology used in Azure DevOps and other Release Management Tooling
- Describe what a Build and Release task is, what it can do, and some available deployment tasks
- Classify an Agent, Agent Queue and Agent Pool
- Explain why you sometimes need multiple release jobs in one release pipeline
- Differentiate between multi-agent and multi-configuration release job
- Use release variables and stage variables in your release pipeline
- Deploy to an environment securely, using a service

connection

- Embed testing in the pipeline
- List the different ways to inspect the health of your pipeline and release by using, alerts, service hooks and reports
- Create a release gate
- Describe deployment patterns
- Implement Blue Green Deployment
- Implement Canary Release
- Implement Progressive Exposure Deployment
- Recommend artifact management tools and practices
- Abstract common packages to enable sharing and reuse
- Inspect codebase to identify code dependencies that can be converted to packages
- Identify and recommend standardized package types and versions across the solution
- Refactor existing build pipelines to implement version strategy that publishes packages
- Manage security and compliance
- Inspect open source software packages for security and license compliance to align with corporate standards
- Configure build pipeline to access package security and license rating
- Configure secure access to package feeds
- Apply infrastructure and configuration as code principles
- Deploy and manage infrastructure using Microsoft automation technologies such as ARM templates, PowerShell, and Azure CLI
- Describe deployment models and services that are available with Azure
- Deploy and configure a Managed Kubernetes cluster
- Deploy and configure infrastructure using 3rd party tools and services with Azure, such as Chef, Puppet, Ansible, SaltStack, and Terraform
- Define an infrastructure and configuration strategy and appropriate toolset for a release pipeline and

application infrastructure

- Implement compliance and security in your application infrastructure
 - Design practices to measure end-user satisfaction
 - Design processes to capture and analyze user feedback from external sources
 - Design routing for client application crash report data
 - Recommend monitoring tools and technologies
 - Recommend system and feature usage tracking tools
 - Configure crash report integration for client applications
 - Develop monitoring and status dashboards
 - Implement routing for client application crash report data
 - Implement tools to track system usage, feature usage, and flow
 - Integrate and configure ticketing systems with development team's work management system
 - Analyze alerts to establish a baseline
 - Analyze telemetry to establish a baseline
 - Perform live site reviews and capture feedback for system outages
 - Perform ongoing tuning to reduce meaningless or non-actionable alerts
 - Plan for the transformation with shared goals and timelines.
 - Select a project and identify project metrics and KPIs.
 - Create a team and agile organizational structure.
 - Develop a project quality strategy.
 - Plan for secure development practices and compliance rules.
 - Migrate and consolidate artifacts.
 - Migrate and integrate source control measures.
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Курсът е предназначен за

- Students in this course are interested in implementing DevOps processes like dependency management, application infrastructure and the management and configuration of that infrastructure; or in passing the Microsoft Azure DevOps Solutions certification exam.
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Формат на курса



Присъствен Курс



**Онлайн (Live)
Отдалечен**

Език на курса: български (английски е наличен като опция)

Учебни Материали: в електронен формат (Учебните материали са на английски), включени в цената с неограничен достъп.

Лабораторна среда: всеки курсист разполага със собствена лаб среда, където се провеждат упражненията, част от курса.

Продължителност

- 5 работни дни (понеделник – петък 09:00 – 17:00)

или

- **40 уч.ч. обучение (теория и практика) в извънработно време с продължителност 1 седмици**
 - събота и неделя 10:00 – 14:00, 14:00 – 18:00, 18:00 – 22:00
 - понеделник и сряда 19:00 – 23:00
 - вторник и четвъртък 19:00 – 23:00
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Плащане



Заявка за издаване на фактура се приема към момента на записването на съответния курс.

Фактура се издава в рамките на 7 дни от потвърждаване на плащането.

Предстоящи Курсове

юни 6

6 юни 2026 @ 10:00 - 28 юни 2026 @ 14:00 EEST 📅


[**Linux Professional Institute LPIC-1 prep for 101-500 and 102-500 \(4 weeks\)**](#)

юни 8

09:00 - 17:00 EEST 📅

[VMware vSphere: Install, Configure, Manage \[v8\]](#)

юни 8

8 юни 2026 @ 09:00 - 12 юни 2026 @ 17:00 EEST 

[EC-Council – Certified Ethical Hacker \(CEHv13 EN\)](#)

юни 15

15 юни 2026 @ 09:00 - 19 юни 2026 @ 17:00 EEST 

[EC-Council – Certified Ethical Hacker \(CEHv13 EN\)](#)

юни 22

22 юни 2026 @ 09:00 - 26 юни 2026 @ 17:00 EEST 

[EC-Council – Certified Ethical Hacker \(CEHv13 EN\)](#)

[Към календара](#)

За повече информация използвайте формата за контакт.

Ще се свържем с Вас за потвърждаване на датите.

Предпоставки (Изисквания) за Участие

- Fundamental knowledge about Azure, version control, Agile software development, and core software development principles is required, along

with experience with virtual machines and containers, and some exposure to automation and scripting. Students should also have knowledge of general application development and deployment processes. It is recommended that you have experience working in an IDE, as well as some knowledge of the Azure portal. However, students who may not have a technical background in these technologies, but who are curious about DevOps practices as a culture shift, should be able to follow the procedural and expository explanations of continuous integration regardless. Experience working in a software development or operations environment with either Windows or Linux would be helpful but is not essential, as would experience in an organization that delivers software. Students who attend this course are interested in implementing DevOps processes or in passing the Microsoft Azure DevOps Solutions certification exam.

Курсът подготвя за следните сертификационни нива

- IT Professionals already experienced in general Windows Server and Windows Client administration or already experienced in administering and supporting application servers and services, including Exchange, SharePoint, SQL, etc.
- Students who want to use Windows PowerShell to automate administrative tasks from the command line, using any Microsoft or

independent software vendor (ISV) product
that supports Windows PowerShell
manageability.