

**Kursus****4 dage**

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Dato

22-04-2024

03-06-2024

26-09-2024

28-10-2024

04-12-2024

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Designing and Implementing Microsoft DevOps solutions [AZ-400T00]

Få de nødvendige færdigheder til at designe og implementere DevOps strategi og processer i Azure DevOps. Du får en række metoder og værktøjer til kontinuerlig planlægning, automatisering, udvikling, testning og optimering af feedback, for løbende at kunne tilpasse, implementere og udvikle forretningens behov i en agil kontekst.

Vi har samlet alt til din læringsrejse

For at du får størst muligt udbytte af dit kursus, får du adgang til en læringsportal, der samler alt omkring dit kursus. Læs mere under Form.

Deltagerprofil

Kurset er for dig som arbejder med DevOps og er interesseret i at designe og implementere DevOps processer i Microsoft Azure DevOps eller som gerne forberede dig vil eksamen AZ-400 Designing and Implementing Microsoft DevOps Solutions.

Forudsætninger

Du forventes at have et godt kendskab til Azure samt have erfaring med enten [Azure Administrator](#) eller [Azure Developer](#).

Herudover bør du også have kendskab til DevOps principper og et agilt mindset.

Udbytte

- Plan for the transformation with shared goals and timelines
- Design a tool integrations strategy
- Describe Azure Repos and GitHub
- Configure Agents for use in Azure Pipelines
- Implement continuous integration using Azure Pipelines
- Implementing Compliance and security in your application infrastructure
- Optimize feedback mechanisms

Det får du på arrangementet

- Øvelser og inddragelse
- Kursusbevis
- Erfaren underviser
- Fuld forplejning
- Gratis parkering
- Materiale på engelsk
- Undervisning på dansk
- Certificeret underviser

Indhold

Modul 1: Get started on a DevOps transformation journey

- Introduction to DevOps
- Choose the right project
- Describe team structures
- Choose the DevOps tools
- Plan Agile with GitHub Projects and Azure Boards
- Introduction to source control
- Describe types of source control systems
- Work with Azure Repos and GitHub

Modul 2: Development for enterprise DevOps

- Structure your Git Repo
- Manage Git branches and workflows
- Collaborate with pull requests in Azure Repos
- Explore Git hooks
- Plan fostering inner source
- Manage Git repositories
- Identify technical debt

Modul 3: Implement CI with Azure Pipelines and GitHub Actions

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



Modul 4: Design and implement a release strategy

- Introduction to continuous delivery
- Create a release pipeline
- Explore release strategy recommendations
- Provision and test environments
- Manage and modularize tasks and templates
- Automate inspection og health

Modul 5: Implement a secure continuous deployment using Azure Pipelines

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

Modul 6: Manage infrastructure as code using Azure and DSC

- Explore infrastructure as code and configuration management
- Create Azure resources using Azure Resource Manager templates
- Create Azure resources by using Azure CLI
- Explore Azure Automation with DevOps
- Implement Desired State Configuration (DSC)
- Implement Bicep

Modul 7: Implement security and validate code bases for compliance

- Introduction to Secure DevOps
- Implement open-source software
- Software Composition Analysis
- Static analyzers
- OWASP and Dynamic Analyzers
- Security Monitoring and Governance

Modul 8: 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

Modul 9: 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

Form

For at du får størst muligt udbytte af dit kursus, får du adgang til en læringsportal, der samler alt omkring dit kursus. Her får du et godt overblik over emnerne på kursusdagene, direkte adgang til kursusmaterialet opdelt efter emner, og koder til online labs, så du kan løse opgaver undervejs. Du får desuden adgang til udvalgt ekstra materiale. Du kan bruge platformen fra en browser, lige når det passer dig, og du har adgang i 180 dage efter dit kursus.

Certificering

Dette kursus leder hen mod eksamen [AZ-400 Designing and implementing Microsoft DevOps Solution](#). Du skal bestille og betale for din eksamen særskilt.

For at opnå certificeringen Microsoft Certified: DevOps Engineer, Expert skal du også have bestået eksamen AZ-104 Azure Administrator eller AZ-204 Azure Developer.

Microsoft skriver om denne eksamen:

- Candidates for this exam should have subject matter expertise working with people, processes, and technologies to continuously deliver business value.
- Responsibilities for this role include designing and implementing strategies for collaboration, code, infrastructure, source control, security, compliance, continuous integration, testing, delivery, monitoring, and feedback.
- A candidate for this exam must be familiar with both Azure administration and development and must be expert in at least one of these areas.

[Læs mere om IT-certificering her.](#)



UNDERVISER

Undervisningen varetages af en erfaren underviser fra Teknologisk Instituts netværk bestående af branchens dygtigste undervisere.

Har du faglige spørgsmål så kontakt



Charlotte Heimann
+45 72203147
chhn@teknologisk.dk