

Category: Microsoft Azure

Azure Pipelines #050101

Das Trainings findet sich vom 16.06.2025 bis zum 27.06.2025 statt und wird auf Englisch gehalten.

Es läuft von 08:30 bis 17:00.

Das Training findet sich nur Online statt.

Key Learnings

- Entwerfen und Implementieren von Prozessen und Kommunikation
- Entwerfen und Implementieren einer Strategie zur Quellcodekontrolle
- Entwerfen und Implementieren von Build- und Release-Pipelines
- Entwickeln eines Sicherheits- und Compliance-Plans
- Implementieren einer Instrumentierungs-Strategie

Anforderungen

- Verständnisses von PaaS-, SaaS- und IaaS-Implementierungen.
- Azure Vorkenntnisse.
- Es wäre hilfreich, Erfahrungen in einer Organisation zu haben, die Software liefert.

Key Learnings

- Design and implement processes and communication
- Design and implement a source code control strategy
- Design and implement build and release pipelines
- Develop a security and compliance plan
- Implement an instrumentation strategy

Requirements

- Understanding of PaaS, SaaS and IaaS implementations.
- Basic knowledge of Azure.
- It would be helpful to have experience in an organization that delivers software.

Azure Pipelines	
Module	Material
1. Github: (day1) <ul style="list-style-type: none"> • Installing and Configuring • Intro, Concepts, Commands • Using Git (Command Line, Editor, GUI Tools) • Workflow • Diff Tools 	
2. Define Enterprise DevOps For Company (day2)	
3. Implement CI with Azure Pipelines and GitHub Actions <p>This learning path introduces the concept of continuous integration using Azure Pipelines and GitHub Actions. It contains instructions for configuring these services and creating applications</p>	
4. Design and implement Release Strategy (day3)	
5. Create a build Pipeline with Azure Pipelines <ul style="list-style-type: none"> • Introduction • What is Azure Pipelines? • Exercise - Get the sample application • Plan your build tasks • Exercise - Set up your Azure DevOps environment • Exercise - Create the pipeline • Exercise - Publish the result to the pipeline • Exercise - Build multiple configurations by using templates • Exercise - Clean up your Azure DevOps environment • Pipeline tasks, variables and triggers 	<p>Required knowledge and skills:</p> <ul style="list-style-type: none"> • Familiarity with forking and cloning a GitHub repo <p>Account requirements:</p> <ul style="list-style-type: none"> • An Azure DevOps organization <ul style="list-style-type: none"> ○ To use Microsoft-hosted agents, your Azure DevOps organization must have access to Microsoft-hosted parallel jobs. Check your parallel jobs and request a free grant. ○ You can use GitHub Codespaces to complete the module, even if your Azure DevOps organization doesn't have any parallel jobs. • A GitHub account <p>Software Requirements:</p> <ul style="list-style-type: none"> • Visual Studio Code • .NET 6.0 SDK • Git

<p>6. Create a build Pipeline with Azure Pipelines (day4)</p> <ul style="list-style-type: none"> • Introduction • What is Azure Pipelines? • Exercise - Get the sample application • Plan your build tasks • Exercise - Set up your Azure DevOps environment • Exercise - Create the pipeline • Exercise - Publish the result to the pipeline • Exercise - Build multiple configurations by using templates • Exercise - Clean up your Azure DevOps environment • Pipeline tasks, variables and triggers 	<p>Required knowledge and skills:</p> <ul style="list-style-type: none"> • Familiarity with forking and cloning a GitHub repo <p>Account requirements:</p> <ul style="list-style-type: none"> • An Azure DevOps organization <ul style="list-style-type: none"> ○ To use Microsoft-hosted agents, your Azure DevOps organization must have access to Microsoft-hosted parallel jobs. Check your parallel jobs and request a free grant. ○ You can use GitHub Codespaces to complete the module, even if your Azure DevOps organization doesn't have any parallel jobs. • A GitHub account <p>Software Requirements:</p> <ul style="list-style-type: none"> • Visual Studio Code • .NET 6.0 SDK • Git
<p>7. Implement CI with Azure Pipelines and GitHub Actions (day 5)</p> <ul style="list-style-type: none"> • Describe the anatomy of a pipeline • Understand the pipeline Structure • Detail Templates • Explore Yaml Resources • Use multiple repositories in your pipeline • Migrate a pipeline from classic to YAML in Azure Pipelines • Knowledge Check • Summary 	
<p>8. Implement secured Continuous Deployment with Azure Pipelines (day 6)</p>	
<p>9. Implement secured Continuous Deployment with Azure Pipelines (day 7)</p>	
<p>10. manage Infrastructure-as-Code with Azure and DSC (day 8)</p>	



11. Implement security and check codebases for compliance (day 9)	
12. Design and implement a dependency Management strategy (day 10)	
13. Implement continuous feedback	