

Microsoft Infrastructure as Code (MIAC)

ID MIAC Price 2,190.— €(excl. tax) Duration 3 days

Course Overview

Dieser Kurs zeigt Ihnen, wie Sie Microsoft Cloud Services mittels 'Infrastructure as Code (IaC)' verwalten. Zwei Schwerpunkte zeichnen den Kurs aus: Zum einen werden Azure Solutions/Ressourcen und Entra ID Objekte automatisiert erstellt und verwaltet, zum anderen werden die Tools Azure DevOps und GitHub sowie deren zu Grunde liegenden Konzepte (git, branches, boards, pipelines, etc.) besprochen.

Am Ende des Kurses sind Sie in der Lage, per PowerShell, Azure CLI und ARM/Bicep Scripts/Templates zu erstellen, um Azure Solutions zu erstellen und die Microsoft Graph API für die automatische Verwaltung von Entra ID zu verwenden.

Who should attend

Azure, Entra ID Administratoren

Prerequisites

[Automating Administration with PowerShell \(AZ-040T00\)](#), [Microsoft Azure Administrator \(AZ-104T00\)](#), [Microsoft Identity and Access Administrator \(SC-300T00\)](#) oder äquivalente Kenntnisse. Für diesen Kurs ist keine Programmiererfahrung erforderlich!

Course Content

Sign in to Entra ID for Automation

- Authorization Code Flow vs. Credential Client flow
- Create and manage Service Principals

Access Control (RBAC)

- Entra ID built-in and custom roles
- Azure built-in and custom roles

Automation Tools Overview for Azure

- PowerShell

- Azure CLI
- ARM/Bicep

Azure Automation I (simple UseCases)

- Create/deploy simple solutions like
- Resource Groups
- VNets
- VMs
- Storage Accounts

DevOps Basics

- git Repositories (commits, branches, clone, ...)
- Issues, Discussions, Pull Requests
- Boards, Pipelines/Workflows, Artifacts

Azure Automation II (Deployment platforms)

- DeploymentStacks
- Azure Automation Account
- Azure Function Apps
- GitHub Actions
- Azure DevOps Pipelines

Azure Automation III (complex UseCases)

- Create/deploy often used solutions like
- VNet Peering and Routing
- VMs with KeyVault integration
- Azure Firewall
- Application Gateways
- Azure DNS

Entra ID Automation I

- User, Group and License management
- Application Registrations
- Conditional Access Management
- PIM

IaC Basics for Microsoft 365

- Exchange Online
- SharePoint Online
- Teams

Optional content:

Azure Automation IV (Config Management)

- VM Applications
- Azure Machine Configuration

About Fast Lane



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