



MFE-IT

Reference: 2B/EN/AZ2008

DevOps on Azure AZ-2008 Training Course

Foundations, Practices and Key Principles

Duration: 1 Day | Hours: 7 h

Remote · Sessions guaranteed from 1 registrant · 60% hands-on practice

DESCRIPTION

This DevOps on Azure training introduces the essential concepts, values and tools of the DevOps movement applied to the cloud. Participants learn how to automate infrastructure, manage CI/CD pipelines, and adopt a culture of continuous collaboration between development and operations teams using Azure services.

The programme follows the Microsoft AZ-2008 reference and covers Azure DevOps Services, GitHub Actions on Azure, infrastructure as code with Bicep and Terraform, and monitoring with Azure Monitor.

LEARNING OBJECTIVES

By the end of this training course, participants will be able to:

- Understand the fundamental concepts of DevOps philosophy and its application in cloud projects
- Master the essential DevOps principles applied to the Azure ecosystem (CI/CD, automation, continuous monitoring)
- Configure and use Azure DevOps services (Repos, Pipelines, Boards, Artifacts)
- Implement a basic CI/CD pipeline with GitHub Actions or Azure Pipelines
- Apply best practices for security, quality and governance in a DevOps context

PREREQUISITES

- Basic knowledge of cloud computing (Azure or equivalent)
- Understanding of continuous integration and code management (Git/GitHub)
- Technical experience (development, administration or build/release) facilitates learning

Because each participant is unique, a personalised interview is systematically organised in advance with our expert to design a training programme perfectly aligned with their objectives, level and professional challenges.

TARGET AUDIENCE

- Developers, architects and cloud engineers wishing to adopt a DevOps culture
- System administrators and DevOps engineers involved in automation, pipelines and software quality
- Technical managers, business analysts or QA engineers seeking to understand and contribute to DevOps workflows

DETAILED PROGRAMME

The training alternates between theoretical input and hands-on practice (approximately 60% of the time). Modules are built around practical exercises based on real-world business use cases.

Module 1 – Introduction to DevOps and the Azure ecosystem

- DevOps culture, values and key practices (CI/CD, automation, observability)
- Positioning of Azure DevOps and GitHub within the Microsoft cloud
- Mapping the Azure DevOps toolchain to the development lifecycle

Module 2 – Azure DevOps Services

- Azure Repos, Pipelines, Boards and Artifacts
- Configuring projects, work items and source repositories
- Build and release pipelines fundamentals

Module 3 – GitHub Actions on Azure

- GitHub Actions workflow syntax and runners
- Native actions for Azure deployment
- OIDC authentication and federated credentials

Module 4 – CI/CD pipelines: design and implementation

- YAML pipelines, stages, jobs and approvals
- Building, testing and deploying to Azure App Service, AKS and Container Apps
- Strategies: blue/green, canary and ring-based deployments

Module 5 – Infrastructure as Code with Bicep and Terraform

- Bicep syntax, modules and ARM transpilation
- Terraform on Azure: providers, state and remote backends
- Comparing both approaches and when to choose which

Module 6 – Monitoring with Azure Monitor and Application Insights

- Telemetry, logs and metrics in Azure Monitor
- Distributed tracing with Application Insights
- Alerts, dashboards and continuous feedback loops

Module 7 – DevOps culture, governance and security best practices

- Quality gates, code reviews and branch protection
- Service connections, secrets and secure pipelines
- Operational governance and continuous improvement

TEACHING METHODS

Format and Delivery

The training is delivered remotely via an interactive virtual classroom. It can also be delivered on-site, with content customised to match the needs of your professional project. The theory/practice split is approximately 40%/60%.

MFE-IT Ultra-Personalised Format

Each session accommodates between 1 and 3 participants, ensuring highly individualised support. A preliminary interview allows us to tailor the content to each participant's profile. Inter-company sessions are guaranteed from just 1 registrant (except in cases of force majeure).

Skills Assessment

Throughout the training, the trainer assesses participant progress through multiple-choice questions, role-playing exercises and hands-on work. At the end, a certificate of achievement is issued to each participant.

Post-Training Support

For one month following the training, each participant can contact MFE-IT trainers with questions about implementing acquired knowledge. A response is provided by email or telephone within 48 working hours.

Accessibility

MFE-IT is committed to welcoming people with disabilities. Contact: contact@mfe-it.com.

PRACTICAL INFORMATION

Trainer Resources

- Structured demonstrations aligned with the detailed programme
- Exercise briefs and solutions throughout the training
- A ready-to-use technical environment for practical workshops
- Trainer validation of acquired knowledge at the end of each workshop
- Digital reference documents

Certification and Validation

At the end of the training, a certificate is sent by email specifying the objectives, nature, duration and assessment results. A completion certificate can also be provided on request.

Benefits for Participants

- Train from your workplace or home, with no travel required
- Benefit from an expert trainer-consultant on the subject
- Enjoy an ultra-personalised format (1 to 3 participants)
- Continue training even in the event of unforeseen circumstances

Benefits for the Organisation

- Optimise the training budget by reducing travel and accommodation costs
- Offer quality training to all employees, regardless of location
- Reduce absence time linked to travel
- Support team upskilling in all contexts