



Deploy cloud-native apps using Azure Container Apps (AZ-2003)

Description

Master Cloud-Native Application Deployment

Cloud computing has become an essential pillar of modern development. To meet scalability and performance requirements, companies are increasingly adopting container-based architectures. With the Deploying Cloud-Native Applications Using Azure Container Apps (AZ-2003) training, you will learn how to deploy cloud-native applications efficiently and securely using Azure Container Apps, Azure Container Registry, and Azure Pipelines.

A Practical AZ-2003 Training for Optimized Deployment

This AZ-2003 course guides you through configuring and managing containerized applications on Microsoft Azure. You will discover how to use Azure to automate deployments, manage application scaling, and ensure security. Through a structured program and hands-on exercises, you will gain valuable expertise in the entire cloud deployment process. Ideal for developers and DevOps engineers, this training will help you optimize your workflow and master container orchestration solutions.

Course Content

Module 1: Introduction to Cloud-Native Applications and Containerized Deployments

- Understand cloud-native applications
- Explore deployment options for cloud-native applications
- Analyze the architecture and resources of an Azure Container Apps solution

Module 2: Configuring Azure Container Registry for Containerized Application Deployment

- Overview of the Azure Container Registry service
- Create a container registry instance in the Azure portal
- Manage registry operations for image administration
- Authenticate using managed identity
- Manage Azure Container Registry roles and permissions
- Secure communications using virtual networks

Module 3: Configuring a Container App in Azure Container Apps

- Overview of the Azure Container Apps service
- Understand containers and container registries in Azure Container Apps
- Create and configure a container app and its environment
- Use managed identities in Azure Container Apps
- Manage ingress in Azure Container Apps
- Handle secrets management in Azure Container Apps
- Configure storage mounts in Azure Container Apps
- Connect cloud services within Azure Container Apps

Module 4: Configuring Continuous Deployment for Container Apps

- Explore continuous deployment options for containerized applications
- Overview of Azure DevOps and Azure Pipelines
- Configure and execute deployment tasks in Azure Pipelines
- Manage agents and agent pools for pipelines
- Use environment and secret variables in pipelines

Module 5: Scaling and Managing Deployed Container Apps

- Understand the concept of revisions in Azure Container Apps
- Manage application lifecycle in Azure Container Apps
- Explore scaling options for containerized applications
- Configure ingress settings for traffic splitting and blue-green deployments

Module 6: Guided Project - Deploy and Manage a Containerized Application with Azure Container Apps

- Prepare deployment tools and resources
- Configure Azure Container Registry for secure integration with Azure Container Apps
- Create and configure a containerized application in Azure Container Apps
- Set up continuous integration with Azure Pipelines
- Manage revisions in Azure Container Apps

Lab / Exercises

- This course provides you with exclusive access to the official Microsoft lab, enabling you to practice your skills in a professional environment.

Documentation

- Access to Microsoft Learn, Microsoft's online learning platform, offering interactive resources and educational content to deepen your knowledge and develop your technical skills.

Participant profiles

- Cloud developers and software engineers
- System administrators and DevOps professionals
- Cloud architects and IT consultants
- Technical managers looking to automate their deployments

Prerequisites

- Basic concepts of cloud computing and distributed architectures
- Experience with containers and orchestration solutions like Kubernetes

- Knowledge of DevOps tools and CI/CD practices

Objectives

- Deploy cloud-native applications with Azure Container Apps
- Configure and secure a container registry with Azure Container Registry
- Manage the scaling and lifecycle of deployed applications
- Automate deployment with Azure Pipelines and CI/CD tools
- Optimize performance and availability of containerized applications
- Implement advanced management and monitoring strategies
- Ensure connectivity and security of cloud applications

Description

Deploy cloud-native apps using Azure Container Apps (AZ-2003)

Niveau

Intermédiaire

Classroom Registration Price (CHF)

900

Virtual Classroom Registration Price (CHF)

850

Duration (in Days)

1

Reference

AZ-2003