



MICROSOFT TRAINING

Microservices Architecture Microsoft Cloud Workshop

Master Microservices Architecture on Microsoft Azure. Design, build, and deploy resilient cloud-native applications.

DURATION

2 hours

LEVEL

Intermediate

FORMAT

Instructor-Led

- Globally Recognized Certification

- Expert-Led Hands-On Training

- Flexible Scheduling

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COURSE OVERVIEW

This engaging 2-hour Microsoft Cloud Workshop delves into the fundamental principles and practical implementation of microservices architecture on the Azure platform. Participants will explore how breaking down monolithic applications into smaller, independent services can significantly enhance scalability, resilience, and development agility. We will cover the core technologies essential for building, deploying, and managing microservices efficiently within the Microsoft Azure ecosystem.

Through hands-on exercises and expert guidance, you will gain proficiency in leveraging key Azure services such as Azure Kubernetes Service (AKS) for container orchestration, Azure Container Registry for managing container images, Azure API Management for securing and publishing APIs, and Azure Cosmos DB for scalable data persistence. The workshop emphasizes practical application, ensuring you not only understand the concepts but also know how to apply them to modernize existing applications or build cloud-native solutions from the ground up.

Completing this workshop will equip you with the foundational knowledge and practical skills necessary to design, develop, and operate high-performing microservices architectures on Azure, significantly boosting your capabilities as a cloud developer or architect. You'll be better prepared to tackle complex application modernization projects and contribute to building robust, scalable cloud solutions.

Duration	2 hours
Level	Intermediate
Vendor	Microsoft

COURSE CURRICULUM

01 Module 1: Introduction to Microservices on Azure

- Understanding Microservices Architecture: Benefits and Challenges
- Key Characteristics of Microservices
- Overview of Microsoft Azure Services for Microservices

02 Module 2: Containerization and Orchestration Basics

- Introduction to Docker for Microservices
- Building and Managing Container Images with Azure Container Registry (ACR)
- Fundamentals of Kubernetes and Azure Kubernetes Service (AKS)

03 Module 3: Deploying Microservices to AKS

- Preparing a Microservice for AKS Deployment
- Deploying Containers to Azure Kubernetes Service
- Basic Scaling and Self-Healing Concepts in AKS

04 Module 4: API Management and Data Persistence

- Securing and Publishing Microservices with Azure API Management
- Choosing Data Stores for Microservices: Introduction to Azure Cosmos DB
- Inter-Service Communication Patterns

05 Module 5: Monitoring, Observability, and Best Practices

- Monitoring Microservices with Azure Monitor and Application Insights

- Logging and Tracing in a Microservices Environment
- Overview of Microservices Design Patterns and Anti-Patterns

CAREER PATHWAYS

Graduates of this program are prepared for the following roles:

- > **Azure Cloud Architect specializing in distributed systems**
- > **Senior Cloud-Native Developer focusing on microservices**
- > **DevOps Engineer with expertise in Azure Kubernetes Service deployments**

FREQUENTLY ASKED QUESTIONS

Q: What prior experience or technical knowledge is recommended to get the most out of this 2-hour Microservices Architecture Microsoft Cloud Workshop?

This workshop is designed for intermediate-level participants. A foundational understanding of cloud computing concepts, basic experience with Azure services, and familiarity with command-line interfaces and development principles (e.g., C# or Python basics) will be highly beneficial. While not strictly required, prior exposure to Docker or Kubernetes concepts will help you grasp the material more quickly.

Q: What specific practical skills will I gain by completing this Microservices Architecture Microsoft Cloud Workshop?

Upon completion, you will be able to containerize simple applications using Docker, understand how to push and pull images from Azure Container Registry, deploy a basic microservice to Azure Kubernetes Service (AKS), configure Azure API Management for exposing services, and grasp the fundamentals of monitoring microservices on Azure. You'll gain a tangible understanding of the workflow involved in building and deploying microservices on Microsoft's cloud platform.

Q: How does mastering microservices architecture through this Microsoft Cloud Workshop enhance my career prospects in cloud development?

Mastering microservices architecture is a critical skill in modern cloud development, and this workshop provides a focused introduction to its implementation on Azure. This expertise positions you for roles requiring application modernization, scalable system design, and cloud-native development. It demonstrates your ability to work with advanced Azure services like AKS and API Management, making you a more valuable asset to organizations building resilient and agile cloud applications, and accelerating your path towards specialized cloud architect or senior developer positions.

ABOUT COMPUTER PRIDE



East Africa's Premier IT Training Center

With over 15 years of excellence, Computer Pride delivers globally recognized certification programs from leading technology vendors. Located on Kenyatta Avenue in Nairobi's CBD, our state-of-the-art facilities and expert instructors

have empowered thousands of professionals across East Africa.

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READY TO ENROL?

Take the next step in your technology career.

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