



MICROSOFT TRAINING

Containers And Devops Microsoft Cloud Workshop

*Learn to build and manage containerized applications using DevOps practices on Microsoft Cloud.
Master modern cloud deployment workflows.*

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 Microsoft Cloud Workshop on Containers and DevOps provides a concise yet powerful introduction to modern application deployment strategies using containerization and automated workflows on Azure. Participants will delve into the fundamental concepts of Docker and Kubernetes, understanding how these technologies revolutionize scalability, portability, and resource efficiency for applications. The workshop emphasizes practical application, guiding you through the deployment of containerized workloads within Azure Kubernetes Service (AKS). Through hands-on exercises, you'll learn to streamline development and operations, accelerating your project delivery cycles.

Focused on Microsoft's cloud ecosystem, this intermediate-level workshop equips IT professionals, developers, and operations engineers with essential skills to integrate DevOps principles with container orchestration. You will explore how Azure DevOps facilitates Continuous Integration and Continuous Delivery (CI/CD) pipelines specifically tailored for containerized applications, enabling rapid and reliable software releases. By the end of this workshop, you'll have a solid understanding of how to build, deploy, and manage scalable applications using industry-leading container technologies and Microsoft's robust cloud platform, positioning you to drive innovation and efficiency within your organization.

Duration	2 hours
Level	Intermediate
Vendor	Microsoft

COURSE CURRICULUM

01 Module 1: Introduction to Containers and Docker Fundamentals

- Understanding Containerization: Benefits and Use Cases
- Introduction to Docker: Images, Containers, and Dockerfile
- Building and Running Your First Docker Container
- Docker Networking and Data Persistence Basics

02 Module 2: Orchestrating Containers with Azure Kubernetes Service (AKS)

- Overview of Kubernetes Architecture: Pods, Deployments, Services
- Introduction to Azure Kubernetes Service (AKS) Capabilities
- Deploying a Sample Application to AKS
- Basic AKS Cluster Management and Scaling

03 Module 3: Implementing DevOps Principles for Containerized Applications

- Core Concepts of DevOps for Cloud-Native Workloads
- Introduction to Continuous Integration (CI) for Containers
- Introduction to Continuous Delivery/Deployment (CD) for Containers
- Overview of Azure DevOps for CI/CD Pipelines

04 Module 4: Building and Deploying with Azure DevOps Pipelines to AKS

- Creating an Azure DevOps Project and Repositories
- Developing a CI Pipeline to Build Docker Images and Push to Azure Container Registry
- Configuring a CD Pipeline to Deploy Containerized Applications to AKS
- Monitoring Basic Deployment Health in AKS (Brief Overview)

CAREER PATHWAYS

Graduates of this program are prepared for the following roles:

- > **Azure Kubernetes Service Administrator**
- > **Cloud-Native Application Developer (Microsoft Azure)**
- > **DevOps Engineer (Azure Focused)**

FREQUENTLY ASKED QUESTIONS

Q: What prior technical experience or knowledge is recommended to get the most out of this Containers and DevOps Microsoft Cloud Workshop?

To fully benefit from this intermediate-level workshop, participants should have a foundational understanding of Azure services, basic command-line operations, and familiarity with core software development concepts. While an in-depth knowledge of Docker or Kubernetes is not required, prior exposure to cloud computing or application deployment workflows will be advantageous.

Q: What specific hands-on skills will I acquire by completing this 2-hour workshop, relevant to deploying containerized applications on Azure?

Upon completing this workshop, you will gain practical skills in building Docker images, understanding fundamental Kubernetes objects, deploying a simple containerized application to Azure Kubernetes Service (AKS), and configuring basic CI/CD pipelines in Azure DevOps to automate the build and deployment process for container-based workloads. You'll walk away with the ability to initiate modern application delivery on Azure.

Q: How does this Containers and DevOps Microsoft Cloud Workshop prepare me for more advanced Azure DevOps or Kubernetes certifications?

This workshop serves as an excellent foundational stepping stone for more comprehensive Azure DevOps or Kubernetes certifications. It provides practical exposure to core concepts and tools like Docker, AKS, and Azure DevOps pipelines, which are crucial components tested in certifications such as Microsoft Certified: Azure DevOps Engineer Expert or those related to Kubernetes administration. It helps solidify the practical understanding necessary before diving into broader theoretical knowledge.

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.

15+

10,000+

50+

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READY TO ENROL?

Take the next step in your technology career.

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