



MICROSOFT TRAINING

AZ-1001: Deploy Containers by Using Azure Kubernetes Service

Master deploying and managing containers with Azure Kubernetes Service. Prepare for AZ-1001 and enhance your cloud skills.

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 intermediate-level course, "AZ-1001: Deploy Containers by Using Azure Kubernetes Service," is meticulously designed for IT professionals aiming to master the deployment and management of containerized applications using Microsoft Azure's powerful Kubernetes service. Over two focused hours, you will gain hands-on experience with core concepts of container orchestration, delving into the intricacies of AKS architecture, cluster creation, and secure application deployment. This training equips you with the practical skills needed to leverage Kubernetes for modern, scalable, and resilient cloud-native solutions on Azure.

By completing this course, you will significantly enhance your ability to design, implement, and operate highly available applications, ensuring optimal performance and resource utilization. You will learn to streamline deployment pipelines, automate scaling, and maintain robust container environments, directly translating into increased operational efficiency and reduced infrastructure overhead. This expertise is crucial for organizations looking to adopt or optimize their cloud-native strategies, positioning you as a valuable asset in today's rapidly evolving IT landscape.

Duration	2 hours
Level	Intermediate
Vendor	Microsoft
Exam Code	AZ-1001

COURSE CURRICULUM

01 Module 1: Introduction to Azure Kubernetes Service (AKS)

- Understanding Containers and Orchestration Fundamentals
- Overview of Kubernetes Architecture and Components
- Introduction to Azure Kubernetes Service (AKS) Capabilities
- Planning and Creating an AKS Cluster

02 Module 2: Deploying Containerized Applications on AKS

- Containerizing Applications for AKS Deployment
- Creating and Managing Kubernetes Deployments
- Exposing Applications with Kubernetes Services (ClusterIP, NodePort, LoadBalancer)
- Configuring Ingress for External Access

03 Module 3: Managing and Scaling Applications in AKS

- Updating and Rolling Back Deployments in AKS
- Scaling Applications with Horizontal Pod Autoscalers (HPA)
- Monitoring AKS Clusters and Applications
- Introduction to AKS Networking and Storage Concepts

CAREER PATHWAYS

Graduates of this program are prepared for the following roles:

> **Azure Cloud Engineer specializing in Containerization**

- > DevOps Engineer focusing on Kubernetes deployments
- > Cloud Native Application Developer for Microsoft Azure

FREQUENTLY ASKED QUESTIONS

Q: What specific hands-on skills will I gain that are directly applicable to managing production environments on Azure?

Upon completing this course, you will be proficient in deploying multi-container applications to AKS, exposing them via various service types, and managing their lifecycle including updates and rollbacks. You'll also learn to implement auto-scaling for high availability and efficiently monitor cluster performance, all critical skills for maintaining robust production-grade containerized workloads on Azure.

Q: What are the recommended prerequisites for someone looking to take this intermediate AZ-1001 course?

To get the most out of this course, participants should have a foundational understanding of Azure services, including basic networking and compute concepts. Familiarity with containerization principles (e.g., Docker) and command-line interfaces (CLI) is highly beneficial, though a brief overview of containers will be provided. Basic knowledge of YAML for Kubernetes manifests is also helpful.

Q: How does this specific AZ-1001 course contribute to a broader career path in DevOps or Cloud Architecture?

This course serves as a critical stepping stone for advancing in DevOps and Cloud Architecture roles by providing deep expertise in container orchestration with AKS. Mastering AKS is essential for building modern CI/CD pipelines, implementing microservices architectures, and designing scalable cloud-native solutions, directly supporting career progression to roles like Lead DevOps Engineer, Cloud Solutions Architect, or Kubernetes Specialist within an Azure ecosystem.

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+

Years of Excellence

10,000+

Professionals Trained

50+

Vendor Certifications

READY TO ENROL?

Take the next step in your technology career.

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