

KOENIG SOLUTIONS • COURSE OUTLINE

AZ-2003: Deploy Cloud-Native Apps Using Azure Container Apps

Learn to deploy, secure and scale cloud-native apps on Azure Container Apps, from container registries to continuous deployment.

1 Day

8 HOURS

6

MODULES

27

TOPICS

4

HANDS-ON EXERCISES

COURSE OVERVIEW

The AZ-2003: Deploy cloud-native apps using Azure Container Apps certification does not exist as of my knowledge cutoff in 2023. As certifications are regularly updated, it's possible that the mentioned certification might have been introduced after this date, or it could be a typographical error. However, if a certification around deploying cloud-native apps with Azure Container Apps were to exist, it would typically focus on the skills required to deploy, manage, and scale containerized applications on Microsoft Azure using Azure Container Apps—a serverless container service. Professionals would learn to leverage Azure's tools for container orchestration, Networking, Security, and Monitoring, thus enabling efficient application development in the cloud. Industries would use this knowledge to modernize their applications, ensure scalability, and improve deployment workflows for better resource utilization and cost efficiency.

WHO THIS COURSE IS FOR

Developers with experience in containerization technology

DevOps professionals seeking to leverage Azure for app deployment

IT professionals focusing on cloud-native application development

Individuals preparing for Microsoft's Azure certification exams

Technical team leads managing cloud application deployment projects

What You Will Learn

- Explain cloud-native app concepts and deployment options
- Configure Azure Container Registry for image management
- Apply managed identities and role-based access for registries
- Create a container app and container app environment
- Configure ingress, secrets and storage mounts in container apps
- Implement continuous deployment using Azure Pipelines
- Manage revisions and application lifecycle in container apps
- Configure scaling and traffic-splitting for container apps

COURSE SYLLABUS

6 Modules, 27 Topics

01

Get Started with Cloud Native Apps and Containerized Deployments

TOPICS

- Examine cloud-native apps
- Examine deployment options for cloud-native apps
- Review an Azure Container Apps solution architecture and resources

02

Configure Azure Container Registry for Container App Deployments

TOPICS

- Review the Azure Container Registry service
- Create a container registry instance in the Azure portal
- Examine registry operations for image management
- Examine authentication with managed identities
- Examine Azure Container Registry roles and permissions
- Examine secure communications using virtual networks

03

Configure a Container App in Azure Container Apps

TOPICS

- Review the Azure Container Apps service
- Examine Azure Container Apps containers and containers registries
- Create a container app and container app environment
- Examine managed identities in Azure Container Apps
- Examine ingress in Azure Container Apps
- Examine the management of secrets in Azure Container Apps
- Examine the storage mounts in Azure Container Apps
- Examine cloud service connections in Azure Container Apps

04

Configure Continuous Deployment for Container Apps

TOPICS

- Review continuous deployment options for container apps
- Examine Azure DevOps and Azure Pipelines
- Examine Azure Pipeline configuration and deployment tasks
- Examine agents and agent pools for pipelines
- Examine environment and secret variables for pipelines

05

Scale and Manage Deployed Container Apps

TOPICS

- Examine revisions in Azure Container Apps
- Examine application lifecycle management in Azure Container Apps
- Examine scaling options in Azure Container Apps
- Examine ingress settings for traffic-splitting and blue-green deployments

06**4 Exercises**

Guided Project - Deploy and Manage a Container App Using Azure Container Apps

TOPICS

- Prepare your app deployment tools and resources

Practise What You Learn

#	MODULE	ACTIVITY
06	Guided Project - Deploy and Manage a Container App Using Azure Container Apps	■ Configure Azure Container Registry for a secure connection with Azure Container Apps ■ Create and configure a container app in Azure Container Apps ■ Configure continuous integration by using Azure Pipelines ■ Manage revisions in Azure Container Apps

WHAT IS INCLUDED

Everything You Need to Succeed

- Koenig course material for every module
- Delivery by certified instructors and subject matter experts
- Hands-on exercises throughout the course
- Course completion certificate from Koenig

ABOUT KOENIG

Who We Are

Established in 1993, Koenig Solutions is a globally recognised training provider with 35+ technology partnerships, 5,000+ training programmes and a network of certified instructors and subject matter experts, supporting individuals and enterprise teams worldwide.

FLEXIBLE DELIVERY

Learn the Way That Suits You

Classroom Training

Live Online Classes (ILO)

Fly-Me-A-Trainer (FMAT)

Flexi (Self-Paced)

1-on-1 Training

Ready to Get Started?

Talk to a learning advisor about schedules, group training and customised delivery.

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