



Train. Employ. Empower.

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

Price
\$495.00

Duration
**1 Daytime Class
or
2 Evening Classes**

Delivery Methods
**Virtual, Private
Group,**

CAREER SKILLS+™

This course equips participants with the skills to execute secure deployment strategies for cloud-native applications. Enrollees will explore the fundamentals of constructing, deploying, scaling, and maintaining applications within cloud environments utilizing cutting-edge tools such as Azure Container Apps, Azure Container Registry, and Azure Pipelines. Emphasizing practical, hands-on learning, this course aligns with DSDT's commitment to merging digital technology prowess with career-centric education.

Who Should Attend

This course is designed for IT professionals, software developers, and system administrators who aim to enhance their expertise in cloud technologies and containerized applications. Ideal participants are those looking to advance their knowledge in cloud application deployment and management within the Azure ecosystem.

Course Prerequisites

Basic knowledge of cloud computing principles including virtualization, scalability, and on-demand resource management. Understanding of containers, their advantages, and distinctions from traditional applications and virtual machines.

Familiarity with container orchestration tools, particularly Kubernetes.

Some experience with Microsoft Azure, focusing on its primary container services.

Prior exposure to deployment strategies using Azure DevOps or similar CI/CD frameworks.

An understanding of networking fundamentals, especially related to Azure Virtual Networks.

Course Objectives

Master the configuration and management of cloud-native applications using Azure Container Apps.

Understand the intricacies of Azure Container Registry and how to efficiently manage container images.

Leverage Azure Pipelines for continuous integration and continuous deployment (CI/CD) of applications.

Develop scalable solutions that respond dynamically to workload changes.

Implement best practices for security and compliance in cloud-native deployments.

Agenda

Introduction to Cloud-Native Applications and Containerized Deployments

Overview of cloud-native applications

Deployment options for cloud-native apps

Exploring Azure Container Solutions

Architecture and resources of Azure Container Apps

Configuration of Azure Container Registry for app deployments

Container registry management via Azure Portal

Security enhancements with managed identities and role-based access control

Setting Up and Managing Azure Container Apps

Creation and configuration of container apps and environments

Management of ingress settings and secret variables within Azure Container Apps

Storage solutions and service connections in cloud environments

Continuous Deployment and Management of Container Apps

Continuous deployment strategies using Azure DevOps and Azure Pipelines

Managing application lifecycles and scaling options in Azure Container Apps

Advanced deployment tactics including traffic-splitting and blue-green deployments

Guided Project

Hands-on project: Deploying and managing a container app using Azure Container Apps

By integrating DSDT's unique focus on practical skills and real-world applications, participants will leave the course well-prepared to tackle challenges in deploying and managing cloud-native applications effectively.