

Kubernetes with Azure

DETAILS

- Audience: project managers, system administrators, developers
- Duration : 2 days
- Location: on site or remotely
- Attendees : 1 to 8
- Prerequisites :
 - Basic cloud concepts
 - Use of Azure services
 - Kubernetes concepts
 - System administration

KEY OBJECTIVES

- Understand Cloud native solutions and architectures
- Leverage Azure services for scalability and resiliency
- Discover how to automate and secure deployments

TEACHER



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ABOUT THIS TRAINING

This training is intended for system administrators or developers who wish to implement AKS, the Kubernetes solution of the Microsoft Azure cloud.

In this three-day session, you will learn how to create and run a production-grade Azure Kubernetes Service (AKS). By implementing AKS on core Azure services, you'll get hands-on instructions, best practices, and learn how to use, monitor, and troubleshoot your AKS cluster.

TRAINING CONTENT

Introduction and basic concepts

- Understand Cloud Native concepts and objectives
- Overview of Azure services for cloud-native apps
- Azure governance and policies

Get started with Azure Kubernetes Services (AKS)

- Managing container images with Azure Container Registry
- Creation of an AKS cluster
- Deployment of a first application on AKS

Configuring and managing a cluster

- Manage the elasticity of the VMSS and ACI cluster
- Configure authentication and security
- Configure storage
- Define a network policy
- Updating the AKS cluster
- Cluster monitoring and logging

Application implementation and management

- Advanced use of Azure Container Registry (ACR)
- Control of incoming traffic with Ingress
- Management and updating of applications
- Application monitoring and logging

Advanced Concepts

- Good security practices
- AKS management with Terraform
- Implementation of a continuous integration chain (CI)

RELATED TRAINING

- Advanced Azure (4 days)
- Kubernetes (3 days)