

# AZ-1001: Deploy and manage containers using Azure Kubernetes Service Training

*COURSE CONTENT*

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## About Course

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The AZ-1001: Deploy and Manage Containers Using Azure Kubernetes Service training provided by Multisoft Systems is designed for professionals seeking to deepen their understanding of container orchestration within the Azure cloud environment.

## Module 1: Plan an Azure Kubernetes Service deployment

- ✓ Introduction
- ✓ Azure Kubernetes Service
- ✓ Azure Kubernetes cluster architecture
- ✓ Azure Kubernetes Service pods
- ✓ Nodes and node pools for Azure Kubernetes Service
- ✓ Namespaces for Azure Kubernetes Service
- ✓ Access to Azure Kubernetes Service
- ✓ Monitoring and logging for Azure Kubernetes Service
- ✓ Knowledge check
- ✓ Summary

## Module 2: Deploy and use Azure Container Registry

- ✓ Introduction
- ✓ Azure Kubernetes Service
- ✓ Azure Kubernetes cluster architecture
- ✓ Azure Kubernetes Service pods
- ✓ Nodes and node pools for Azure Kubernetes Service
- ✓ Namespaces for Azure Kubernetes Service
- ✓ Access to Azure Kubernetes Service
- ✓ Knowledge check
- ✓ Summary

## Module 3: Deploy an Azure Kubernetes Service cluster

- ✓ Introduction
- ✓ Azure Kubernetes Service cluster architecture
- ✓ Network topology
- ✓ Plan the IP addresses
- ✓ Configure compute for the base cluster

- ✓ Integrate Azure Active Directory for the cluster
- ✓ Secure the network flow
- ✓ Node and pod scalability
- ✓ Knowledge check
- ✓ Summary

## **Module 4: Configure an Azure Kubernetes Service cluster**

- ✓ Introduction
- ✓ Understand Azure Policy for Kubernetes clusters
- ✓ Host-based encryption on Azure Kubernetes Service
- ✓ Create a custom namespace for Azure Kubernetes clusters
- ✓ Knowledge check
- ✓ Summary

## **Module 5: Deploy applications to Azure Kubernetes Service**

- ✓ Introduction
- ✓ Configure Azure Kubernetes pods using Azure Policy
- ✓ Configure storage for applications running on Azure Kubernetes Service
- ✓ Deploy an application to an Azure Kubernetes Service cluster
- ✓ Knowledge check
- ✓ Summary

## **Module 6: Configure scaling in Azure Kubernetes Service**

- ✓ Introduction
- ✓ Scaling options in Azure Kubernetes Services
- ✓ Cluster autoscaler
- ✓ Burst to Azure Container Instances
- ✓ When to use cluster autoscaler
- ✓ Automatically scale a cluster on Azure Kubernetes Service
- ✓ Knowledge check

- ✓ Summary

## Module 7: Guided Exercise - Deploy applications to Azure Kubernetes Service

- ✓ Introduction
- ✓ Exercise 1 - Provision Azure Container Registry and Azure Kubernetes Service
- ✓ Exercise 2 - Build Linux and Windows container images to store in the registry
- ✓ Exercise 3 - Deploy container images to Azure Container Registry
- ✓ Exercise 4 - Review the deployment and remove resources
- ✓ Knowledge check
- ✓ Summary