



Consulting and Training | Reach New Heights

**Course Name**

# Advanced Kubernetes

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**Sector Name**

Information Technology

**Document Type**

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## Advanced Kubernetes

### Course Introduction

The training for the Advanced Kubernetes certification enriches participants' knowledge within the Kubernetes ecosystem. Encompassing various subjects such as crafting Kubernetes clusters, establishing network policies, honing disaster recovery skills, administering role-based access control, scaling and overseeing applications, addressing maintenance and troubleshooting issues, and managing APIs, the course offers a comprehensive learning experience.

Upon completion of the training, participants will have honed their skills in efficiently overseeing fully operational Kubernetes clusters for production purposes.

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## Advanced Kubernetes

### Target Audience

- ✓ Cloud Computing Engineer
- ✓ Computer Network Specialist
- ✓ Computer Support Specialist
- ✓ Database Administrator
- ✓ Information Technology Analyst
- ✓ Information Technology Leadership

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### Learning Objectives

- ✓ Gain an in-depth understanding of the Kubernetes framework and the process of configuring Kubernetes clusters.
- ✓ Understand the networking structure of Kubernetes, facilitating communication among diverse services within a microservices architecture.
- ✓ Obtain expertise on automating the deployment, expansion, and oversight of containerized applications.
- ✓ Manage enduring storage using Kubernetes for applications requiring persistent data, along with the ability to monitor, trace, audit, and troubleshoot these applications.
- ✓ Execute advanced Kubernetes use cases.

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## Advanced Kubernetes

### Course Outline

#### ✓ Day 01

##### **Installation, Configuration, and Validation**

- ✓ Design a Kubernetes Cluster
- ✓ Installation of Kubernetes Master and Nodes using the Hard Way Method
- ✓ Bootstrapping the ETCD Cluster
- ✓ Bootstrapping the Kubernetes Control Plane
- ✓ Bootstrapping the Kubernetes Worker Nodes
- ✓ Configure kubectl
- ✓ Verify Installation

##### **Revise Managing Resources**

- ✓ Managing Pods
- ✓ Managing Labels and Selectors
- ✓ Managing Replication Controller and Replica Set
- ✓ Managing Service
- ✓ Managing Deployments
- ✓ Managing DaemonSet

## Advanced Kubernetes

### Course Outline

#### ✓ Day 02

##### **Storage**

- ✓ Understand storage classes
- ✓ Persistent Volume - HostPath
- ✓ Persistent Volume - NFS
- ✓ Understand volume mode, access modes, and reclaim policies for volumes
- ✓ Understand persistent volume claims primitive
- ✓ Know how to configure applications with persistent storage

##### **Managing Statefulset**

- ✓ What is a StatefulSet
- ✓ Why StatefulSet
- ✓ Manage StatefulSet
- ✓ Managing Headless Service
- ✓ StatefulSet DNS Entry
- ✓ Storage with StatefulSet

## Advanced Kubernetes

### Course Outline

#### ✓ Day 03

##### **Logging and Monitoring**

- ✓ Understand how to monitor all cluster components
- ✓ Prometheus Tool
- ✓ Integration of Elastic Search and Kibana with Kubernetes

##### **Networking in Kubernetes**

- ✓ Understand CoreDNS
- ✓ Configure Custom DNS for Pod
- ✓ Ingress - Host Based
- ✓ Ingress - Path-Based Ingress with TLS
- ✓ Metal Load Balancer

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### Course Outline

#### ✓ Day 04

##### **Helm**

- ✓ Understand Helm and Helm Charts
- ✓ Helm Commands
- ✓ Deploy Kubernetes Dashboard using Helm
- ✓ Create a Helm Chart and Deploy Applications using the Helm Chart
- ✓ Test Helm Chart
- ✓ Upgrade Application using Helm Chart
- ✓ Downgrade Application using Helm Chart

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### Course Outline

#### ✓ Day 05

##### **Istio**

- ✓ Istio Installation
- ✓ Understand Istio Architecture
- ✓ Deploy Application and Work with Kiali
- ✓ Understand Destination Rule and Virtual Service
- ✓ Create an Application with Istio
- ✓ Microservices Tracing
- ✓ Ingress Host-Based and Path-Based with Istio
- ✓ Ingress - Subdomain with Istio

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### Confirmed Sessions

FROM	TO	DURATION	FEES	LOCATION
April 27, 2026	May 1, 2026	5 days	4250.00 \$	UAE , Abu Dhabi
Aug. 17, 2026	Aug. 21, 2026	5 days	4250.00 \$	UAE , Dubai
Feb. 1, 2027	Feb. 5, 2027	5 days	4250.00 \$	UAE , Abu Dhabi
Jan. 4, 2027	Jan. 8, 2027	5 days	4950.00 \$	Thailand , Bangkok

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