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Course Name

Kubernetes Administration - The Complete Guide

Sector Name

Information Technology

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Kubernetes Administration - The Complete Guide

Course Introduction

Kubernetes Administration - The Complete Guide

Welcome to "Kubernetes Administration - The Complete Guide," a **five-day course** designed to equip professionals with the skills needed to manage and administer Kubernetes clusters effectively. As Kubernetes adoption grows, organizations require skilled administrators who can ensure the stability, scalability, and security of their clusters. This course covers essential topics such as cluster setup, resource management, security, and troubleshooting, enabling you to become a proficient Kubernetes administrator.

Through hands-on labs and real-world scenarios, you will gain practical experience managing Kubernetes clusters, from initial setup to advanced administration tasks. You will explore key topics such as node management, resource allocation, and disaster recovery, ensuring that you are well-prepared to handle real-world challenges. Additionally, the course emphasizes best practices for designing scalable, resilient, and secure Kubernetes environments, making it ideal for both beginners and experienced practitioners.

By the end of this course, you will have the skills and confidence to manage Kubernetes clusters effectively, ensuring the smooth operation of your organization's cloud-native applications. Whether

you are a system administrator, DevOps engineer, or cloud architect, this course equips you with the expertise needed to excel in Kubernetes-based projects and drive innovation within your team.

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Target Audience

This course is ideal for system administrators, DevOps engineers, and cloud architects involved in Kubernetes-based projects. It is particularly beneficial for professionals preparing for Kubernetes administration roles or those looking to deepen their Kubernetes expertise.

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Learning Objectives

- ✓ Understand Kubernetes cluster architecture and components.
- ✓ Set up and manage Kubernetes clusters.
- ✓ Allocate and manage cluster resources effectively.
- ✓ Secure Kubernetes clusters using RBAC and network policies.
- ✓ Troubleshoot common Kubernetes issues.

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Course Outline

✓ Day 01

Foundations of Kubernetes Administration

- ✓ Introduction to Kubernetes Administration
- ✓ Definition and importance of Kubernetes in cloud-native development.
- ✓ Key components: Nodes, Clusters, and Control Plane.

Setting Up Kubernetes Clusters

- ✓ Installing Kubernetes using kubeadm.
- ✓ Exploring managed Kubernetes services (GKE, EKS, AKS).

Interactive Session

- ✓ Hands-on exercise: Set up a Kubernetes cluster.

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Course Outline

✓ Day 02

Resource Management

- ✓ Allocating Resources
- ✓ Configuring CPU and memory limits for pods.
- ✓ Managing namespaces and quotas.

Node Management

- ✓ Adding and removing nodes from a cluster.
- ✓ Monitoring node health and performance.

Practical Exercise

- ✓ Allocate resources and manage nodes in a Kubernetes cluster.

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Course Outline

✓ Day 03

Networking and Storage

- ✓ Kubernetes Networking
- ✓ Configuring pod-to-pod communication.
- ✓ Setting up Ingress controllers and load balancers.

Persistent Storage

- ✓ Configuring PersistentVolumes (PVs) and PersistentVolumeClaims (PVCs).
- ✓ Using storage classes for dynamic provisioning.

Role Play

- ✓ Set up an Ingress controller and configure persistent storage.

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Course Outline

✓ Day 04

Security and Monitoring

- ✓ Securing Kubernetes Clusters
- ✓ Implementing Role-Based Access Control (RBAC).
- ✓ Securing pods with security contexts and network policies.

Monitoring and Logging

- ✓ Using tools like Prometheus and Grafana for monitoring.
- ✓ Centralized logging with Fluentd and Elasticsearch.

Group Activity

- ✓ Secure a Kubernetes cluster and configure RBAC policies.

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Course Outline

✓ Day 05

Advanced Topics and Best Practices

- ✓ Disaster Recovery
- ✓ Backing up and restoring Kubernetes clusters.
- ✓ Handling node failures and cluster upgrades.

Troubleshooting

- ✓ Debugging pods, nodes, and services.
- ✓ Common Kubernetes errors and resolutions.

Final Project Presentation: Comprehensive Kubernetes Cluster Administration

- ✓ Closing Remarks

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Confirmed Sessions

FROM	TO	DURATION	FEES	LOCATION
Nov. 22, 2026	Nov. 26, 2026	5 days	4250.00 \$	KSA , Riyadh
April 5, 2027	April 9, 2027	5 days	5950.00 \$	USA , Los Angeles
June 14, 2027	June 18, 2027	5 days	4250.00 \$	UAE , Dubai
Aug. 9, 2027	Aug. 13, 2027	5 days	4250.00 \$	UAE , Dubai

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