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Course: Kubernetes & Docker Administration

Duration: 1000 Hrs (Changeable) | Fees: Individual / Batch

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- Asp.net MVC
- Web Design, Javascript
- Angular JS, React JS
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- AWS, GCP, Azure
- Odoo, Salesforce, Sap
- Microsoft Excel
- Ethical Hacking



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Introduction to DevOps

- * Introduction to DevOps Culture
- * DevOps Lifecycle
- * CI/CD Concepts
- * DevOps Tools Overview

Linux Administration Basics

- * Linux File System
- * Linux Commands
- * User and Permission Management
- * Shell Scripting Basics

Docker Fundamentals

- * Introduction to Containers
- * Docker Architecture
- * Installing Docker
- * Docker Images and Containers
- * Docker Commands

Docker Administration

- * Dockerfile Creation
- * Docker Compose
- * Container Networking
- * Docker Volumes
- * Docker Registry

Kubernetes Fundamentals

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- * Introduction to Kubernetes
- * Kubernetes Architecture
- * Cluster Components
- * Master and Worker Nodes

Kubernetes Administration

- * Pods
- * Deployments
- * Services
- * Namespaces
- * ConfigMaps and Secrets

Kubernetes Networking

- * Container Networking
- * Service Discovery
- * Ingress Controller
- * Network Policies

Kubernetes Storage

- * Persistent Volumes
- * Persistent Volume Claims
- * Storage Classes
- * Database Deployment

Kubernetes Security

- * Authentication and Authorization

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- * RBAC
- * Security Contexts
- * Cluster Security Best Practices

CI/CD Pipeline Integration

- * Git and GitHub
- * Jenkins Basics
- * Automated Deployment
- * Pipeline Configuration

Cloud Deployment

- * AWS Cloud Basics
- * Deploying Kubernetes on Cloud
- * Managed Kubernetes Services
- * Cloud Infrastructure Management

Monitoring and Logging

- * Prometheus
- * Grafana
- * Application Monitoring
- * Log Management

Real-World Projects

- * Dockerized Web Application Deployment
- * Kubernetes Cluster Setup
- * CI/CD Automated Deployment Project

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Since 2007, Making IT Experts & Products

* Cloud-Based Application Hosting

(Click on Course for more details)

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- Thank You -

N.B: This syllabus is not final and can be customized as per requirements / updates.

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