



Kubernetes Certified Developer



24 - 28 November 2024  
Cairo (Egypt)



# Kubernetes Certified Developer

REF: B2220 DATE: 24 - 28 November 2024 Venue: Cairo (Egypt) - Fee: 4095 Euro

## Introduction:

The Kubernetes Certified Developer certification is a popular certification for software developers who work with Kubernetes. This 5-day training course will provide participants with a comprehensive understanding of Kubernetes and its features, along with practical examples of how to develop and deploy applications on Kubernetes.

## Course Objectives:

By the end of this course, participants will be able to:

- Understand the basics of Kubernetes architecture and components
- Develop and deploy applications on Kubernetes
- Use Kubernetes features for managing containerized applications
- Implement Kubernetes services and networking
- Prepare for the Kubernetes Certified Developer certification exam

## Targeted Audience:

This course is designed for software developers who want to learn about developing and deploying applications on Kubernetes and prepare for the Kubernetes Certified Developer certification.

## Course Outlines:

### Unit 1: Introduction to Kubernetes

- Overview of Kubernetes
- Kubernetes architecture and components
- Kubernetes installation and configuration
- Kubernetes resources and objects
- Kubernetes API and CLI

### Unit 2: Developing Applications on Kubernetes

- Containerizing applications for Kubernetes
- Deploying applications on Kubernetes
- Configuring and managing applications on Kubernetes
- Kubernetes storage and persistent volumes
- Developing for Kubernetes API

### Unit 3: Managing Applications on Kubernetes

- Kubernetes labels and selectors
- Kubernetes deployments and replicasets
- Kubernetes statefulsets and daemons
- Kubernetes services and networking
- Kubernetes health checks and probes

## Unit 4: Kubernetes Services and Networking

- Kubernetes services and endpoints
- Kubernetes service discovery
- Kubernetes network policies
- Kubernetes ingress and load balancing
- Kubernetes DNS and networking add-ons

## Unit 5: Preparing for the Kubernetes Certified Developer Exam

- Kubernetes certification exam format and objectives
- Kubernetes certification exam study tips
- Kubernetes certification exam practice questions and scenarios
- Kubernetes certification exam review and feedback
- Best Practices for Kubernetes Development and Deployment