Kubernetes Application Developer (CKAD) Training

Duration: **3 Day**

BILGINÇ IT Academy
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Kubernetes is a fast-growing open-source orchestration tool to**deploy, scale, and update containerized applications**.
In this three-day training, you will learn how to**containerize, host, deploy, and configure applications** in a multi-node cluster.

Starting from a simple Python script, you'll define application resources and use**Kubernetes primitives** to build, monitor, and troubleshoot scalable applications. You'll also work with**network plugins, security, and cloud storage** to gain the skills needed to run applications in production environments.

This course prepares you for the**Certified Kubernetes Application Developer (CKAD)** exam.

Prerequisites

- Linux concepts and CLI proficiency
- Knowledge of package managers
- Git & GitHub familiarity
- Recommended: *Introduction to Kubernetes (edX)*

Who Should Attend

- Developers looking to gain Kubernetes application development skills
- Linux CLI users with development background
- Programmers familiar with Python, Node.js, or Go
- Developers wanting to understand cloud-native architectures

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What You Will Learn

- Containerize and build applications for Kubernetes
- Deploy and configure apps in multi-node clusters
- Define and manage application resources
- Implement networking, security, and cloud storage
- Monitor, troubleshoot, and optimize applications
- Gain real-world skills for production-ready Kubernetes apps

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Training Outline

Chapter 1: Introduction

- Course overview

Chapter 2: Kubernetes Architecture

- Cluster structure and components

Chapter 3: Build

- Building container images
- Publishing to registries

Chapter 4: Design

- Defining resources
- Using Kubernetes primitives

Chapter 5: Deployment Configuration

- Deployments, ReplicaSets, ConfigMaps, Secrets
- Scaling and updating applications

Chapter 6: Understanding Security

- RBAC and SecurityContext
- Network policies

Chapter 7: Exposing Applications

- Services & Ingress
- External traffic and load balancing

Chapter 8: Application Troubleshooting

- Logging, monitoring, debugging apps