Course Overview

Course Details

Course Name: Mastering GitLab CI/CD

Instructor: Kenji Tanaka

Created On: 16 June, 2025

Updated On: 16 June, 2025

Price: 6000 INR

Duration: 4 weeks

Modules: 7

Language: English, Hindi

Level: Expert

Certifications: Yes

Course Description

Take your DevOps skills to the next level with this deep dive into GitLab CI/CD. This course is laser-focused on creating sophisticated automation pipelines to build, test, and deploy your code. You will learn how to write clean and efficient `.gitlab-ci.yml` files and manage the entire CI/CD process within GitLab.

We cover everything from the basic structure of pipelines, stages, and jobs to advanced topics like managing variables and secrets, caching dependencies for speed, and passing artifacts between jobs. You'll learn how to configure GitLab Runners, use the built-in container registry, and set up deployment environments to manage releases effectively.

What You'll Learn:

- Writing complex `.gitlab-ci.yml` files.
- Configuring and using GitLab Runners.
- Managing secrets and variables securely.
- Optimizing pipelines with caching and artifacts.
- Deploying to different environments (staging, production).
- Integrating with Docker and the container registry.

Who Is This Course For?

This course is for developers and DevOps engineers who are already familiar with GitLab for source control and want to master its CI/CD capabilities.

Course Curriculum Details

Module 1: Module 1: CI/CD Pipeline Fundamentals
1 Lessons

1. Anatomy of `.gitlab-ci.yml`   **30min**

Module 2: Module 2: Runners In-Depth
1 Lessons

1. Shared vs. Specific Runners   **25min**

Module 3: Module 3: Variables, Secrets, and Caching
2 Lessons

1. Managing CI/CD Variables   **30min**

2. Optimizing with Caching   **25min**

Module 4: Module 4: Artifacts and Dependencies

1 Lessons

1. Passing Artifacts Between Jobs   **30min**

Module 5: Module 5: Environments and Deployments

1 Lessons

1. Managing Deployments to Staging and Production   **40min**

Module 6: Module 6: Docker Integration

1 Lessons

1. Building Docker Images in Your Pipeline   **35min**

Module 7: Module 7: Final Project

1 Lessons

1. Build a Multi-Stage Pipeline for a Web App   **2hr**

This curriculum is subject to minor adjustments to ensure the most up-to-date and effective learning experience.