Course Overview

Course Details

Course Name: Docker & Containers: From beginner to Pro

Instructor: Kenji Tanaka

Created On: 16 June, 2025

Updated On: 16 June, 2025

Price: 7500 INR

Duration: 6 weeks

Modules: 8

Language: English, Hindi

Level: Beginner, Expert

Certifications: Yes

Course Description

This course is your complete guide to understanding and mastering Docker. We'll take you from the fundamental concepts of containerization to building and orchestrating complex multi-container applications. You will learn why containers have revolutionized software development and operations.

We start by explaining the difference between containers and virtual machines, then get hands-on with the Docker CLI. You'll learn to write efficient Dockerfiles, manage images and containers, and use Docker Compose to define and run local development environments. We also cover core concepts like Docker networking, data persistence with volumes, and sharing

your images on Docker Hub.

What You'll Learn:

- Core containerization concepts.
- Mastering the Docker CLI.
- Writing optimized and multi-stage Dockerfiles.
- Orchestrating multi-container applications with Docker Compose.
- Docker networking and data persistence with volumes.
- Managing images with registries like Docker Hub.
- An introduction to container orchestration with Docker Swarm.

Who Is This Course For?

This course is for software developers, operations engineers, and system administrators who want to modernize their application development and deployment workflow. A basic understanding of command-line interfaces is beneficial.

Course Curriculum Details

Module 1: Module 1: Introduction to Containers

2 Lessons

1. What are Containers? (vs. VMs)   **20min**

2. Installing Docker Desktop   **20min**

Module 2: Module 2: Docker Fundamentals

2 Lessons

1. The Docker CLI: Images and Containers   **35min**

2. Running Your First Container   **25min**

Module 3: Module 3: Creating Images with Dockerfiles

2 Lessons

1. Dockerfile Instructions (FROM, RUN, COPY, CMD)   **40min**

2. Best Practices for Writing Dockerfiles   **30min**

Module 4: Module 4: Data Persistence

2 Lessons

1. Managing Data with Docker Volumes   **30min**

2. Bind Mounts vs. Volumes   **20min**

Module 5: Module 5: Docker Networking

2 Lessons

1. Docker Network Drivers   **25min**

2. Connecting Containers   **30min**

Module 6: Module 6: Docker Compose

3 Lessons

1. Introduction to Docker Compose   **20min**

2. Writing a `docker-compose.yml` file   **35min**

3. Running a Multi-Container Application   **30min**

Module 7: Module 7: Registries and Repositories

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