

Kubernetes Learning Journey

A Comprehensive Guide to Mastering
Kubernetes

Introduction to Kubernetes

- Kubernetes is a leading technology in cloud computing.
- Supports complex applications on various architectures.
- Requires knowledge of containers, YAML, and more.

Learning Materials Overview

- Designed for diverse backgrounds: beginners to experts.
- Series of materials targeting specific audiences and topics.

Core Concepts

- Overview of cluster architecture.
- Introduction to API primitives.
- Basics: Pods, ReplicaSets, Deployments, Services.

Beginner-Level Content

- For newcomers without prior experience in containers or orchestration.
- High-level overview and basic lab setup.
- Core concepts for deploying applications.

Advanced Administrator Topics

- Deploying high-availability clusters.
- Scheduling, monitoring, maintenance, security, storage, and troubleshooting.

Developer-Focused Content

- Designing, building, and configuring cloud-native applications.
- Topics: ConfigMaps, secrets, service accounts, multi-container pods, and more.

Practical Exercises

Hands-on exercises to practice
deploying applications.

Flexible Learning Path

Choose focus: administration or
development.

Structured to build knowledge
progressively.