

30-Day Kubernetes Mastery Plan: Teaser

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1 Introduction

Welcome to the **30-Day Kubernetes Mastery Plan**, a guide to transform you from a Kubernetes beginner to an expert in one month. Authored by Hendrawan, this teaser previews the full plan, featuring hands-on tasks, real-world use cases, and a GitHub repository. The complete plan will be available as a premium PDF with a watermark.

2 Why Master Kubernetes?

Kubernetes powers cloud-native applications, enabling scalable, secure container management. This plan is for:

- Beginners with basic Linux/YAML skills.
- Professionals targeting CKA/CKAD/CKS certifications.
- Teams solving enterprise/startup challenges.

3 Plan Overview

The 30-day plan spans four weeks:

3.1 Week 1: Fundamentals

- **Day 1:** Set up Minikube, explore Pods, Clusters.
- **Day 2:** Deploy an nginx Pod.
- **Day 7:** Build a Node.js app mini-project.

Use Case: A startup automates scaling for 99.9% uptime.

3.2 Week 2: Intermediate

- **Day 8:** Route traffic with Ingress.
- **Day 10:** Manage databases with StatefulSets.
- **Day 14:** Deploy a Spring PetClinic app.

Use Case: An enterprise scales microservices.

3.3 Week 3: Advanced

- **Day 15:** Simplify deployments with Helm.
- **Day 18:** Implement Istio Service Mesh.
- **Day 21:** Build a production-grade app.

Use Case: A startup debugs with centralized logging.

3.4 Week 4: Expert

- **Day 24:** Implement GitOps with ArgoCD.
- **Day 27:** Test resilience with Chaos Engineering.
- **Day 30:** Deploy an e-commerce platform.

Use Case: An enterprise builds a secure platform.

4 Key Features

- **Tasks:** Daily exercises with YAML and commands.
- **Use Cases:** Enterprise/startup challenges with troubleshooting.
- **Portfolio:** GitHub repository for showcasing work.
- **PDF:** Full plan with watermark (coming soon).

5 Get Started

1. **Clone:** GitHub Repo (replace with your URL).
2. **Set Up:** Install Docker, Minikube, kubectl, Git, VirtualBox.
3. **Follow:** Commit daily tasks.
4. **Get PDF:** Await the full guide.
5. **Share:** Post on LinkedIn or X with #Kubernetes30Days.

6 Conclusion

Authored by Hendrawan, this plan empowers you to master Kubernetes. Preview the repository and stay tuned for the full PDF!