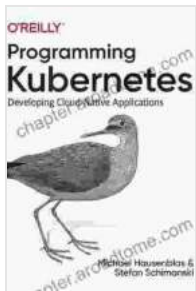


Programming Kubernetes: Your Blueprint for Cloud Native Application Development

In the era of digital transformation, where businesses are rapidly embracing cloud technologies, the ability to develop and deploy cloud native applications has become paramount. Kubernetes, an open-source container orchestration platform, has emerged as a game-changer in this landscape, enabling developers to build, deploy, and manage containerized applications with unprecedented efficiency and scale.



Programming Kubernetes: Developing Cloud-Native Applications by Michael Hausenblas

★★★★☆ 4.2 out of 5

Language : English
File size : 3534 KB
Text-to-Speech : Enabled
Screen Reader : Supported
Enhanced typesetting : Enabled
Print length : 473 pages



Our comprehensive guide, "Programming Kubernetes: Developing Cloud Native Applications," is your essential roadmap to mastering Kubernetes and unlocking the full potential of cloud native application development. Written by industry experts, this book provides a deep dive into the core concepts, architecture, and best practices of Kubernetes, equipping you with the skills you need to build, deploy, and manage highly available, scalable, and performant applications.

Chapter Overview

Chapter 1: to Kubernetes

- Overview of Kubernetes and its benefits
- Understanding container orchestration and the role of Kubernetes
- Key concepts: pods, containers, nodes, and clusters

Chapter 2: Kubernetes Architecture

- In-depth exploration of Kubernetes components
- The control plane (API server, etcd, scheduler, controller manager)
- The worker nodes (kubelet, container runtime, network plugins)

Chapter 3: Pod Management

- Creating, managing, and scaling pods
- Pod lifecycle and health management
- Affinity and anti-affinity rules for pod placement

Chapter 4: Service Discovery and Load Balancing

- Implementing service discovery using Kubernetes services
- Configuring load balancing for application traffic
- Advanced service types (NodePort, LoadBalancer, Ingress)

Chapter 5: Deployment Management

- Creating and managing deployments for application updates
- Rolling updates, canary deployments, and blue-green deployments
- Advanced deployment strategies (Recreate, RollingUpdate, Pause)

Chapter 6: Storage and Persistent Volumes

- Overview of storage options in Kubernetes
- Creating and managing persistent volumes (PVs) and persistent volume claims (PVCs)
- Working with different storage providers (NFS, GlusterFS, Ceph)

Chapter 7: Scaling and High Availability

- Strategies for scaling Kubernetes applications
- Horizontal pod autoscaling (HPA)
- Node auto-scaling for cluster capacity management

Chapter 8: Monitoring and Troubleshooting

- Monitoring Kubernetes clusters and applications
- Logging and metrics collection
- Troubleshooting common Kubernetes issues

Benefits of Reading "Programming Kubernetes"

By investing in "Programming Kubernetes: Developing Cloud Native Applications," you will gain a comprehensive understanding of Kubernetes,

enabling you to:

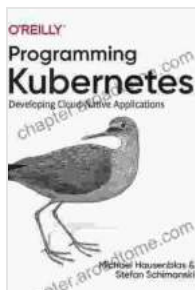
- Build and deploy scalable and resilient cloud native applications
- Optimize application performance and resource utilization
- Automate application deployment and management
- Ensure high availability and fault tolerance
- Accelerate your cloud native development journey

Whether you are a seasoned developer, architect, or DevOps engineer, "Programming Kubernetes" is an indispensable resource that will empower you to harness the full power of Kubernetes and unlock the true potential of cloud native application development.

Get Your Copy Today

Free Download your copy of "Programming Kubernetes: Developing Cloud Native Applications" now and take your cloud native development skills to the next level. Available in print, ebook, and audiobook formats, this comprehensive guide will become your trusted companion as you navigate the world of Kubernetes and cloud native application development.

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