Unlock the Secrets of Container Orchestration with Practical Solutions 2nd Edition!

Are you ready to revolutionize your containerized application deployments? Look no further! The 2nd edition of "Practical Solutions to Container Orchestration" is here to equip you with the necessary knowledge and tools to orchestrate your containerized applications seamlessly.

Containerization has transformed the way we develop, deploy and manage applications. It offers flexibility, scalability, and portability that traditional virtualization cannot match. However, efficiently managing and scaling containerized applications can be a daunting task without the right tools and practices.

In this comprehensive guide, we will explore the practical solutions for container orchestration that can help you unlock the true potential of containerized applications. From choosing the right orchestration platform to implementing best practices, we've got you covered.

Kubernetes Cookbook: Practical solutions to container orchestration, 2nd Edition

by Hideto Saito(2nd Edition, Kindle Edition)

★★★★☆ 4.5 out of 5

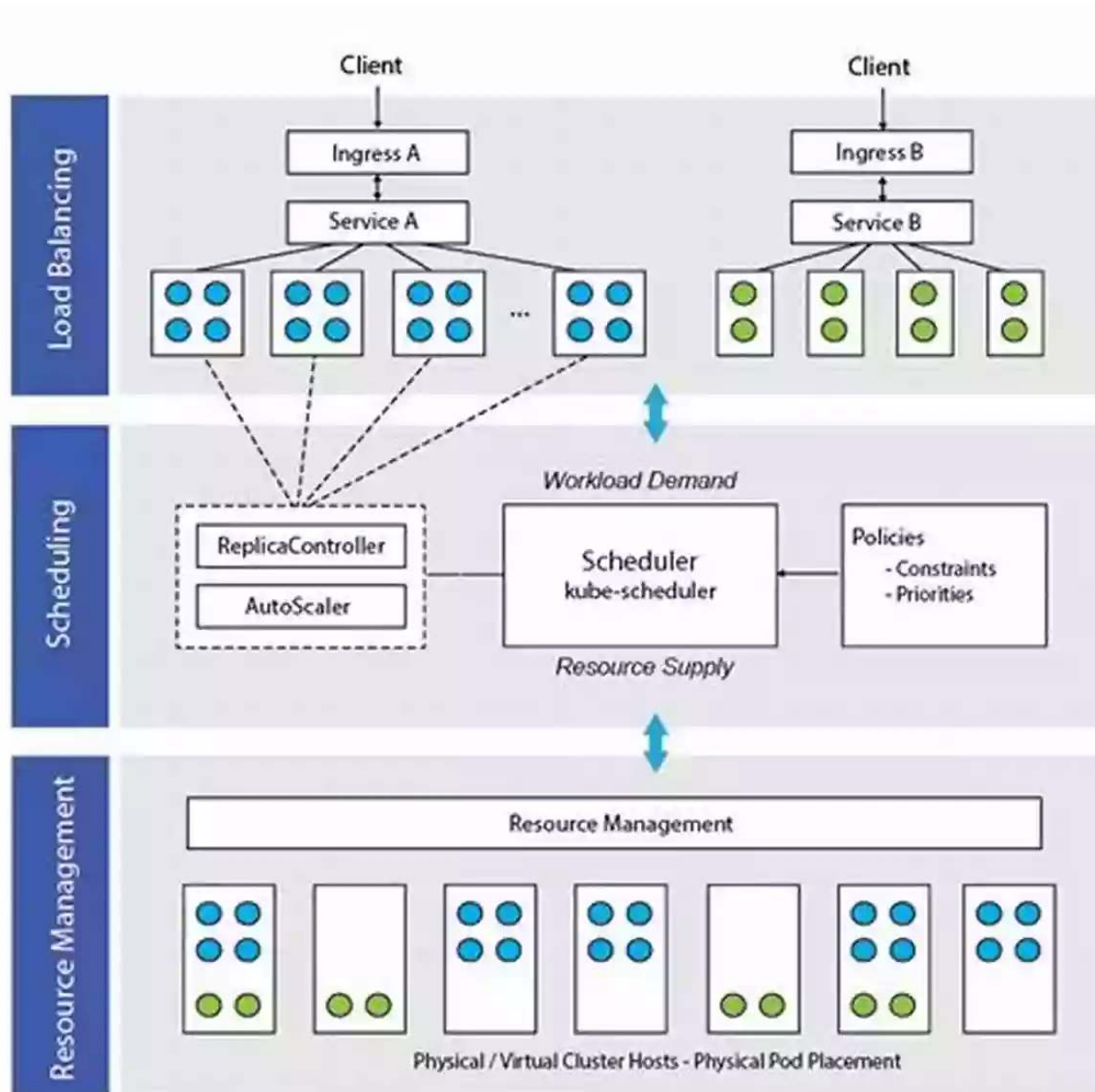|	
Language	: English
File size	: 37201 KB
Text-to-Speech	: Enabled
Enhanced typesetting	: Enabled
Print length	: 554 pages
Screen Reader	: Supported

Chapter 1: Understanding Container Orchestration

In this chapter, we will dive deep into the fundamentals of container orchestration. You will learn about the benefits of container orchestration, the challenges it solves, and how it enhances scalability, resilience, and availability.

: container orchestration concept diagram

Chapter 2: Choosing the Right Orchestration Platform

With numerous orchestration platforms available, selecting the right one for your specific needs is crucial. In this chapter, we will explore popular container orchestration platforms like Kubernetes, Docker Swarm, and Apache Mesos, dissect their features and capabilities, and guide you in making an informed choice.

Chapter 3: Implementing Kubernetes for Container Orchestration

Kubernetes has become the de facto standard for container orchestration due to its extensive features and vibrant community. In this chapter, we will provide a step-by-step guide on how to implement Kubernetes for container orchestration. You'll gain insights into setting up a Kubernetes cluster, managing containers, and scaling applications efficiently.

Chapter 4: Best Practices for Container Orchestration

Container orchestration is not just about deploying containers; it's about doing it right. In this chapter, we will cover the best practices for container orchestration, including managing resources, monitoring and logging, securing containerized applications, and implementing rolling updates for seamless deployments.

Chapter 5: CI/CD Integration with Container Orchestration

Continuous Integration and Continuous Deployment (CI/CD) is crucial for the rapid and reliable delivery of containerized applications. In this chapter, we will explore how container orchestration platforms can seamlessly integrate with CI/CD pipelines, enabling faster feedback loops, automated testing, and smoother deployments.

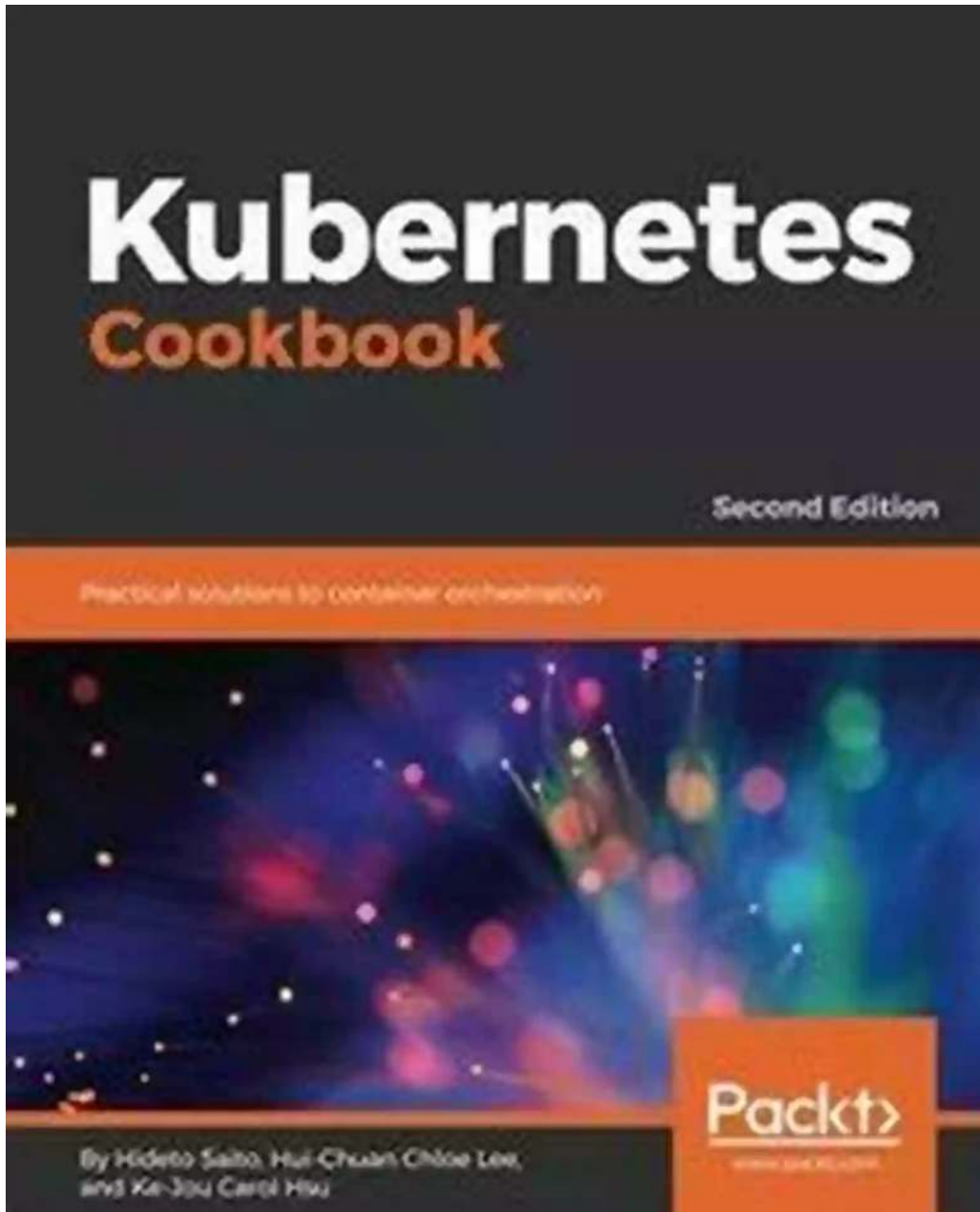## Chapter 6: Advanced Topics in Container Orchestration

Once you have mastered the fundamentals, it's time to dive into advanced topics in container orchestration. In this chapter, we will explore topics like autoscaling, service discovery, networking, and persistent storage, empowering you to take your containerized applications to the next level.

Chapter 7: Case Studies and Real-World Examples

Discover how container orchestration is revolutionizing industries across the globe. In this chapter, we will present real-world case studies, showcasing how container orchestration is being leveraged to streamline application deployments, improve resilience, and optimize resource utilization in various sectors.

Don't miss out on this indispensable guide that will help you master container orchestration! Whether you are a beginner or an experienced practitioner, the 2nd edition of "Practical Solutions to Container Orchestration" has something for everyone.

: practical solutions to container orchestration book cover

Kubernetes
Cookbook

Second Edition

Practical solutions to container orchestration

By Hideto Saito, Hui-Chuan Chloe Lee, and Ke-Jou Carol Hsu

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Get ready to unleash the full potential of container orchestration and propel your applications into the future!

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Learn how to automate and manage your containers and reduce the overall operation burden on your system.

Key Features

- Use containers to manage, scale and orchestrate apps in your organization

- Transform the latest concept of Kubernetes 1.10 into examples

- Expert techniques for orchestrating containers effectively

Book Description

Kubernetes is an open source orchestration platform to manage containers in a cluster environment. With Kubernetes, you can configure and deploy containerized applications easily. This book gives you a quick brush up on how Kubernetes works with containers, and an overview of main Kubernetes concepts, such as Pods, Deployments, Services and etc.

This book explains how to create Kubernetes clusters and run applications with proper authentication and authorization configurations. With real-world recipes, you'll learn how to create high availability Kubernetes clusters on AWS, GCP and in on-premise datacenters with proper logging and monitoring setup. You'll also

learn some useful tips about how to build a continuous delivery pipeline for your application. Upon completion of this book, you will be able to use Kubernetes in production and will have a better understanding of how to manage containers using Kubernetes.

What you will learn

- Build your own container cluster

- Deploy and manage highly scalable, containerized applications with Kubernetes

- Build high-availability Kubernetes clusters

- Build a continuous delivery pipeline for your application

- Track metrics and logs for every container running in your cluster

- Streamline the way you deploy and manage your applications with large-scale container orchestration
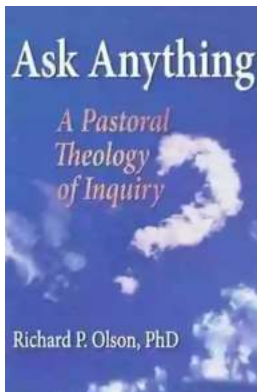
Who this book is for

This book is for system administrators, developers, DevOps engineers, or any stakeholder who wants to understand how Kubernetes works using a recipe-based approach. Basic knowledge of Kubernetes and Containers is required.
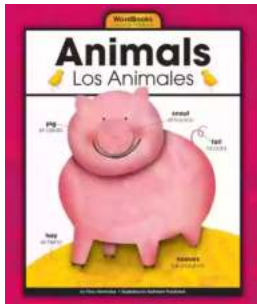
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