Kubernetes Cookbook

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

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Learn how to automate and manage your Linux containers and improve the overall performance of your system

About This Book

- Are you using containers in your organization and want to better manage, scale, and orchestrate apps on the container? Use the recipes in the book to find a reliable solution from experts
- This is the first and only book on the market on Kubernetes, and it will show how to manage your containers in production using Kubernetes
- Buy this book, simply follow the recipes, and you will be the master of your Linux containers

Who This Book Is For

The book is aimed at system administrators who have intermediate level of knowledge with Kubernetes and want to better manage their applications deployed over containers. Also, it will help those administrators who want to maintain and scale applications on these containers.

What You Will Learn

- Get to know how to build your own container cluster
- Deploy and manage highly scalable applications using Kubernetes
- Discover how to build high availability Kubernetes clusters
- Find out how to 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

In Detail

Kubernetes is Google's solution to managing a cluster of containers. Kubernetes

provides a declarative API to manage clusters while giving us a lot of flexibility. This book will provide you with recipes to better manage containers in different scenarios in production using Kubernetes.

We will start by giving you a quick brush up on how Kubernetes works with containers along with an overview of the main Kubernetes features such as Pods, Replication Controllers, and more. Next, we will teach you how to create Kubernetes cluster and how to run programs on Kubernetes. We'll explain features such as High Availability Kubernetes master setup, using Kubernetes with Docker, and orchestration with Kubernetes using AWS. Later, will show you how to use Kubernetes-UI, and how to set up and manage Kubernetes clusters on the cloud and bare metal.

Upon completion of this book, you will be able use Kubernetes in production and will have a better understanding of how to manage your containers using Kubernetes.

Style and approach

This recipe-based book precisely teaches you how to use Kubernetes in production and how to better manage your containers using Kubernetes.

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Editorial Review

About the Author

Hideto Saito

Hideto Saito has around 20 years of experience in the computer industry. In 1998, while working for Sun Microsystems Japan, he was impressed with Solaris OS, OPENSTEP, and Sun Ultra Enterprise 10000 (AKA StarFire). Then, he decided to pursue the UNIX and MacOS X operation systems. In 2006, he relocated to Southern California as a software engineer to develop products and services running on Linux and MacOS X. He was especially renowned for his quick Objective-C code when he was drunk. He is also an enthusiast of Japanese anime, drama, and motor sports, and loves Japanese Otaku culture.

Hui-Chuan Chloe Lee

Hui-Chuan Chloe Lee has worked in the software industry for over 5 years. She has a master's degree in CS from the National Taiwan University and is an AWS-certified associate solution architect. Chloe is also a technology enthusiast who has extended interest and experiences in different topics, such as application development, container technology, and Continuous Delivery. In her free time, she enjoys reading, traveling, and spending time with the people she loves.

Ke-Jou Carol Hsu

Ke-Jou Carol Hsu is an engineer at Trend Micro. As a developer working in the Data Center Service group, Carol helps to write programs for deploying or managing internal-facing systems. She has both a bachelor's and a master's degree from the National Tsing Hua University. While studying and doing research, Carol focused on the area of high performance computing and virtualization technology. The experience made her more and more interested in system software, especially distributed systems and cloud environments.

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