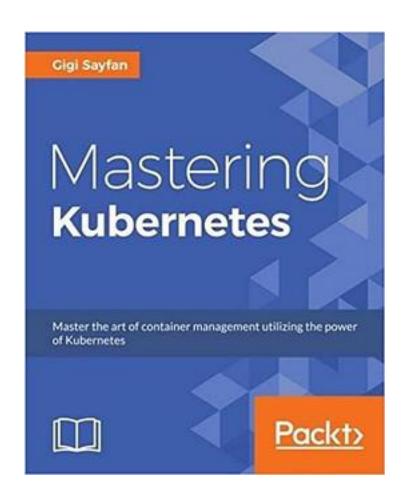# Mastering Kubernetes

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About This Book

This practical guide demystifies Kubernetes and ensures that your clusters are always available, scalable, and up to dateDiscover new features such as autoscaling, rolling

updates, resource quotas, and cluster sizeMaster the skills of designing and deploying large clusters on various cloud platforms

Who This Book Is For

The book is for system administrators and developers who have intermediate level of knowledge with Kubernetes and are now waiting to master its advanced features. You should also have basic networking knowledge. This advanced-level book provides a pathway to master Kubernetes.

What You Will Learn

Architect a robust Kubernetes cluster for long-time operationDiscover the advantages of running Kubernetes on GCE, AWS, Azure, and bare metalSee the identity model of Kubernetes and options for cluster federationMonitor and troubleshoot Kubernetes clusters and run a highly available KubernetesCreate and configure custom Kubernetes resources and use third-party resources in your automation workflowsDiscover the art of running complex stateful applications in your container environmentDeliver applications as standard packages

In Detail

Kubernetes is an open source system to automate the deployment, scaling, and management of containerized applications. If you are running more than just a few containers or want automated management of your containers, you need Kubernetes.

This book mainly focuses on the advanced management of Kubernetes clusters. It covers problems that arise when you start using container orchestration in production. We start by giving you an overview of the guiding principles in Kubernetes design and show you the best practises in the fields of security, high availability, and cluster federation.

You will discover how to run complex stateful microservices on Kubernetes including advanced features as horizontal pod autoscaling, rolling updates, resource quotas, and persistent storage back ends. Using real-world use cases, we explain the options for network configuration and provides guidelines on how to set up, operate, and troubleshoot various Kubernetes networking plugins. Finally, we cover custom resource development and utilization in automation and maintenance workflows.

By the end of this book, you'll know everything you need to know to go from intermediate to advanced level.

Style and approach

Delving into the design of the Kubernetes platform, the reader will be exposed to the advanced features and best practices of Kubernetes. This book will be an advanced level book which will provide a pathway to master Kubernetes

作者介绍:

About the Author

Gigi Sayfan Gigi Sayfan is the chief system architect of VRVIU a stealth virtual reality

start-up. Gigi has been developing software professionally for more than 20 years in domains as diverse as instant messaging, morphing, chip fabrication process control, embedded multi-media application for game consoles, brain-inspired machine learning, custom browser development, web services for 3D distributed game platforms, and most recently IoT/sensors. He has written production code every day in many programming languages such as C, C++, C#, Python, Java, Delphi, JavaScript, and even Cobol and PowerBuilder for operating systems such as Windows (3.11 through 7), Linux, Mac OSX, Lynx (embedded), and Sony Playstation. His technical expertise includes databases, low-level networking, distributed systems, unorthodox user interfaces, and the general software development lifecycle.

Read more

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