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Getting Started With Kubernetes



Synopsis

Orchestrate and manage large-scale Docker deployments with Kubernetes to unlock greater control over your infrastructure and extend your containerization strategy

About This Book Learn the fundamentals of Kubernetes – how it works, and how it fits into the growing containerization trend

Integrate Kubernetes into your workflow alongside continuous delivery tools to address today's operational challenges

Get to grips with a wide range of tools to help you monitor and secure your deployments

Who This Book Is For If you have some experience with Docker and want to get more from containerization, this book is the perfect place to start. Focused on helping you take control of your deployments in a simple way, you'll soon find out how to transform your operations for greater organizational and technical agility.

What You Will Learn Download, install, and configure the latest version of Kubernetes

Perform smooth updates and patches with minimal downtime

Streamline the way you deploy and manage your applications with large-scale container orchestration

Find out how Kubernetes can simplify the way you configure your clusters and networks

Learn why the Open Container initiative is so important for the way you manage your infrastructure

Discover third-party tools that can enhance your production operations

Explore and use the most persistent storage options for your cluster

Integrate Kubernetes with continuous delivery tools such as Gulp and Jenkins

In Detail Kubernetes is the tool that's pushing the containerization revolution – largely driven by Docker – to another level. If Docker has paved the way for greater agility and control in the way we organize and manage our infrastructure, Kubernetes goes further, by helping you to orchestrate and automate container deployments on a massive scale. Kubernetes really does think big – and it's time you did too!

This book will show you how to start doing exactly that, showing you how to extend the opportunities that containerization innovations have brought about in new and even more effective ways. Get started with the basics - explore the fundamental elements of Kubernetes and find out how to install it on your system, before digging a little deeper into Kubernetes core constructs. Find out how to use Kubernetes pods, services, replication controllers, and labels to manage your clusters effectively and learn how to handle networking with Kubernetes.

Once you've got to grips with these core components, you'll begin to see how Kubernetes fits into your workflow. From basic updates to integrating Kubernetes with continuous delivery tools such as Jenkins and Gulp, the book demonstrates exactly how Kubernetes will transform the way you work. With further insights on how to install monitoring and security tools, this book provides you with a direct route through Kubernetes – so you can take advantage of it, fast!

Style and approach This straightforward guide will help you understand how to move your container applications into production through best practices and step by step walkthroughs tied to

real-world operational strategies.

Book Information

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Customer Reviews

Better documentation than the kubernetes.io one. I bought this book with the hope that "Getting started" means instructions and help to install Kubernetes. No, the author uses ready made cloud providers, where Kubernetes is already installed. Too bad that I didn't see this in the preview of this book. Hope you know it through this comment.

Overall a really good starting point for Kubernetes. The only caveat is that it relies on cloud implementations so if you're looking for building from scratch you'll want to look elsewhere. Otherwise a really solid book that does a good job of covering the gamut of kubernetes topics and have you off and running with core competency quickly.

This is a great book to get going with Kubernetes. Not only does it clearly explain the process and procedures related to its orchestration capabilities and functions but the author also gives insight and background into why things are being done one way or another. I'm not all the way through the book yet, however, it's already helped me (Senior Architect) and teams of DevOps engineers I work with a great deal.

While this book assumes you can install Kuber you are really starting off at a point where that

portion is completed and the book focuses on utilizing the toolset for CI. I'm a huge fan of docker and how easy continuous integration testing works, the ease of use from jenkins and integration makes it work flawless for code testing and QA. Kuber really holds up well and I feel after having some knowledge on it, that it can do the same as Docker and then some. Perfect reason to not get in bed with just one technology but to spread out and test each of them, I'm glad I did.

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