Kubernetes Microservices with Docker

By Vohra

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This book on Kubernetes, the container cluster manager, discusses all aspects of using Kubernetes in today's complex big data and enterprise applications, including Docker containers.

Starting with installing Kubernetes on a single node, the book introduces Kubernetes with a simple Hello example and discusses using environment variables in Kubernetes.

Next, the book discusses using Kubernetes with all major groups of technologies such as relational databases, NoSQL databases, and in the Apache Hadoop ecosystem.

The book concludes with using multi container Pods and installing Kubernetes on a multi node cluster. No other book on using Kubernetes - beyond simple introduction - is available in the market.

What You Will Learn
How to install Kubernetes on a single node
How to install Kubernetes on a multi-node cluster
How to set environment variables
How to create a multi-container pods using Docker
How to use volumes
How to use Kubernetes with Apache Hadoop Ecosystem
How to use Kubernetes with NoSQL Databases
How to use Kubernetes with RDBMS

Who This Book Is For
Application Developers including Apache Hadoop Developers, Database developers and NoSQL Developers.

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Editorial Review

Review
..".I find myself referring to the book about 100 times a day, while installing Docker and Kubernetes, just to get everything started and configured properly before I start deploying services.
I would thus recommend the book to those starting off with Docker, with the caveat that they would eventually need to see a number of Docker project examples to determine how they can extend the technology for their projects."

From the Back Cover

The book is about Kubernetes, a container cluster manager. The book discusses all aspects of using Kubernetes in applications. Starting with installing Kubernetes on a single node, the book introduces Kubernetes with a simple Hello example and discusses using environment variables in Kubernetes. Next, the book discusses using Kubernetes with all major groups of technologies such as relational databases, NoSQL databases, and in the Apache Hadoop ecosystem. The book concludes with using multi container Pods and installing Kubernetes on a multi node cluster. No other book on using Kubernetes - beyond simple introduction - is available in the market. Specifically, you'll learn the following:

• How to install Kubernetes on a single node
• How to install Kubernetes on a multi-node cluster
• How to set environment variables
• How to create a multi-container pod
• How to use volumes
• How to use Kubernetes with Apache Hadoop Ecosystem
• How to use Kubernetes with NoSQL Databases
• How to use Kubernetes with RDBMS

About the Author
Deepak Vohra is a consultant and a principal member of the NuBean-dot-com software company. Deepak is a Sun-certified Java programmer and Web component developer. He has worked in the fields of XML, Java programming, and Java EE for over five years. Deepak is the coauthor of Pro XML Development with Java Technology (Apress, 2006). Deepak is also the author of the JDBC 4.0 and Oracle JDeveloper for J2EE Development, Processing XML Documents with Oracle JDeveloper 11g, EJB 3.0 Database Persistence with Oracle Fusion Middleware 11g, and Java EE Development in Eclipse IDE (Packthing). He also served as the technical reviewer on WebLogic: The Definitive Guide (O'Reilly Media, 2004) and Ruby Programming for the Absolute Beginner (Cengage Learning PTR, 2007).

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Wayne Hause:

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Helen Tate:

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