1.	Record Nr.	UNINA9910254758103321
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	Titolo	Kubernetes Microservices with Docker [[electronic resource] /] / by Deepak Vohra
	Pubbl/distr/stampa	Berkeley, CA : , : Apress : , : Imprint : Apress, , 2016
	ISBN	1-4842-1907-4
	Edizione	[1st ed. 2016.]
	Descrizione fisica	1 online resource (440 p.)
	Collana	The expert's voice in open source
	Disciplina	005.133
	Soggetti	Big data
		Computer programming
		Programming languages (Electronic computers)
		Big Data
		Programming Techniques
		Programming Languages, Compilers, Interpreters
	Lingua di pubblicazione	Inglese
	Formato	Materiale a stampa
	Livello bibliografico	Monografia
	Note generali	Includes index.
	Nota di contenuto	Contents at a Glance; Contents; About the Author; About the Technical Reviewer; Foreword; Part I: Getting Started; Chapter 1: Installing Kubernetes Using Docker; Setting the Environment; Installing Docker; Installing Kubernetes; Starting etcd; Starting Kubernetes Master; Starting Service Proxy; Listing the Kubernetes Docker Containers; Installing kubectl; Listing Services; Listing Nodes; Testing the Kubernetes Installation; Summary; Chapter 2: Hello Kubernetes; Overview; What Is a Node?; What Is a Cluster?; What Is a Pod?; What Is a Service?; What Is a Replication Controller?
		What Is a Label?What Is a Selector?; What Is a Name?; What Is a Namespace?; What Is a Volume?; Why Kubernetes?; Setting the Environment; Creating an Application Imperatively; Creating a Service; Describing a Pod; Invoking the Hello-World Application; Scaling the Application; Deleting a Replication Controller; Deleting a Service; Creating an Application Declaratively; Creating a Pod Definition; Creating a Service Definition; Creating a Replication Controller Definition; Invoking the Hello-World Application; Scaling the Application; Using JSON for the Resource Definitions; Summary

| Sommario/riassunto | 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. |