

1. Record Nr.	UNINA9910635390603321
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Titolo	Cloud Native Applications with Docker and Kubernetes : Design and Build Cloud Architecture and Applications with Microservices, EMQ, and Multi-Site Configurations // by Jonathan Bartlett
Pubbl/distr/stampa	Berkeley, CA : , : Apress : , : Imprint : Apress, , 2023
ISBN	9781484288764 1484288769
Edizione	[1st ed. 2023.]
Descrizione fisica	1 online resource (275 pages)
Disciplina	005.3
Soggetti	Cloud computing Programming languages (Electronic computers) Software engineering Application software Cloud Computing Programming Language Software Engineering Computer and Information Systems Applications
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Includes index.
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	Chapter 1.Introduction -- Part 1: An Introduction to Containers Chapter 2. Docker Under the Hood -- Chapter 3. A Docker Interactive Tutorial -- Chapter 4. Best Practices for Docker Containers -- Part 2: Introducing Kubernetes Chapter 5. The Cloud Native Philosophy -- Chapter 6 -- Getting Started with Kubernetes -- Chapter 7. Managing Kubernetes with kubectl -- Chapter 8. The Kubernetes Environment -- Chapter 9.Basic Kubernetes Management -- Chapter 10. A Full Kubernetes Cloud Example -- Chapter 11 -- Going Further in Kubernetes -- Part 3: Architecting for the Cloud Chapter 12. Cloud Architecture Introduction -- Chapter 13 -- Basic Cloud Architectures -- Chapter 14. Microservice Architectures -- Chapter 15. Enterprise Message Queues -- Chapter 16. Architecting Data Stores -- Chapter 17. Multi-Site Configurations -- Chapter 18. Architecture Values -- Chapter 19. Conclusion.

This book takes developers on a journey into the cloud with Docker and Kubernetes. It walks you through the basics of Docker containers, how they are built, run, and published, and how the Kubernetes system allows you to use containers to better manage a cloud native application. Additionally, it walks you through various issues in cloud architecture, and how to design a cloud architecture that will work with your application and your team. The book takes a unique approach, getting you immersed in each subject with tutorials, then building up your technical knowledge, and finally backing up and thinking about more big-picture issues. Part one introduces Docker, building and working with Docker images, and covering best practices for Docker Containers. Part two covers the practicalities of "cloud native" and managing a Kubernetes application, including a full working example. The last part covers the design of cloud and microservice architectures, including the use of enterprise message queues, multi-site configurations and the common values that such architectures follow. This approach accelerates learning and keeps you moving forward without leaving you behind. The appendices also contain a wealth of worthwhile reference material for routine cloud application management. You will: Understand Docker and containerization Gain insight into what Kubernetes is Master essential cloud architecture design principles Design and implement notes for building cloud architectures.
