

1. Record Nr.	UNINA9910629280503321
Autore	Saeed Luqman
Titolo	Pro Cloud Native Java EE Apps : DevOps with MicroProfile, Jakarta EE 10 APIs, and Kubernetes / / by Luqman Saeed, Ghazy Abdallah
Pubbl/distr/stampa	Berkeley, CA : , : Apress : , : Imprint : Apress, , 2022
ISBN	9781484289006 1484289005
Edizione	[1st ed. 2022.]
Descrizione fisica	1 online resource (369 pages)
Disciplina	005.365
Soggetti	Java (Computer program language) Cloud computing Programming languages (Electronic computers) Java Cloud Computing Programming Language
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Includes index.
Nota di contenuto	1. The Theory of Jakarta EE and MicroProfile -- 2. Enterprise Java, Microservices and the Cloud -- 3. Introducing the Cloud Native Jakarta EE Example -- 4. Managing Dependencies with CDI -- 5. Persistence with Jakarta EE Persistence -- 6. REST with Jakarta EE REST API -- 7. Managing Configurations -- 8. Resilience with Fault Tolerance API -- 9. Keeping Count with Metrics -- 10. Taking a Pulse with Heal Check -- 11. Security with JWT -- 12. Testing with TestContainers -- 13. Completing A Production Ready Cloud Native Jakarta EE App -- 14. Cloud Native Jakarta EE Capstone Project.
Sommario/riassunto	This professional guide to Java-based cloud native apps DevOps dives deeper into building and deploying production ready cloud native apps using the increasingly popular open source Eclipse MicroProfile framework, Jakarta EE 10 APIs and the most popular Kubernetes container orchestration tool. After a quick overview of Jakarta EE and MicroProfile, Pro Cloud Native Java EE Apps starts you on your way by walking you through a cloud-native Jakarta EE-based application case study that will be forged piece-by-piece over the course of the book.

Next, you'll interject dependencies and data persistence capabilities as microservices to go with the case study app that you are building. Next, you'll employ the REST API using Jakarta REST APIs and the MicroProfile RESTClient. You'll also explore ways to add resilience to your app, keep count with metrics, check on your app's health, secure your app, and test and complete your production-ready cloud-native app. Finally, you'll dive into migrating a monolith to become a production ready cloud-native app. After reading this book, you'll be able to build your own production ready cloud-native Java app using Jakarta EE and MicroProfile. You will:

- Build and deploy a production-ready cloud-native Java app using MicroProfile, Jakarta EE and Kubernetes
- Migrate a monolith app to become a cloud-native app
- Employ Jakarta EE APIs such as Persistence, CDI and more
- Leverage the MicroProfile framework
- Explore configurations, resilience, metrics, health, security, and more for your cloud-native apps.
