



Learning Karaf Cellar

By Jean-Baptiste Onofre

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Build and implement a complete clustering solution for the Apache Karaf OSGi container

About This Book

- Install and use Cellar as a provisioning clustering solution for Apache Karaf
- Extend Cellar usage to more than just provisioning by implementing distributed solutions
- Practical, step-by-step tutorial with real use cases and examples to help you seamlessly manage a cluster of Karaf Instances

Who This Book Is For

If you are new to Karaf and want to install and manage multiple Karaf instances by farming or clustering, then this book is for you. If you are a Java developer or a system administrator with basic knowledge of Karaf, you can use this book as a guide. Some background knowledge of OSGi and/or Karaf would be preferred but is not mandatory.

What You Will Learn

- Explore the Apache Karaf OSGi container and its features
- Install and configure multiple Karaf containers
- Leverage Hazelcast using Cellar to provide clustering
- Create and manage multiple cluster groups
- Discover the different components of Cellar and how to administrate them
- Implement a fine-grained topology by filtering cluster events
- Use Cellar to implement remote communication between OSGi bundles (DOSGi)
- Use Cellar with Camel to implement a remote communication between Camel routes and a distributed cache

In Detail

Apache Karaf is a popular OSGi container that provides rich and broad features,

and together with Cellar, you can easily manage farms of containers that provide synchronization between the instances of Karaf. In a real production system, users require a farm of containers to implement failover and scalability, as well as the tools required to provision the different members of a cluster. This book will help you understand the architecture, installation, and configuration of a cluster and teach you about different components and features to get the best out of a clustering solution using Apache Karaf Cellar.

Learning Karaf Cellar starts with an introduction to some of the key features of Karaf. After a quick but detailed understanding of OSGi and Karaf, this book takes you through the concept of provisioning clusters and then covers what Cellar is and how to use it.



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Editorial Review

About the Author

Jean-Baptiste Onofre

Jean-Baptiste Onofre is a member of the Apache Software Foundation, and he has been involved in Apache projects for the past 10 years. He is the PMC chair of Apache Karaf and its subprojects, including Cellar, Cave, and EIK. He is also a PMC member of Apache ACE, Apache ServiceMix, and Apache Syncpe, and he is a committer for Apache ActiveMQ, Apache Archiva, Apache Aries, Apache Camel, and Apache jClouds. He is currently working for Talend (<http://www.talend.com>) as a software architect and is a member of the Talend Apache team. He writes articles on Java technologies for Linux Magazine France and has worked as a reviewer for Apache ServiceMix How-To, Henryk Konsek, and Learning Apache Karaf, Johan Edstrom, Jamie Goodyear, and Heath Kesler. Both of these books are published by Packt Publishing. He is currently reviewing Apache Karaf Cookbook, Johan Edstrom, Jamie Goodyear, Heath Kesler, and Achim Nierbeck, Packt Publishing. He has also given speeches about Apache projects (Karaf, Camel, and so on) at different conferences, especially at ApacheCon NA, ApacheCon Europe, and CamelOne.

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