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This IBM® Redbooks® publication can help you develop content and process management applications with IBM FileNet® APIs. The IBM FileNet P8 suite of products contains a set of robust APIs that range from core platform APIs to supporting application APIs. This book focuses specifically on Content Engine and Process Engine APIs. Content Engine API topics that we discuss

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include creating, retrieving, updating, and deleting objects; querying and viewing documents; and batching and batch execution. We also explore more complex topics, including permissions and authorization, versioning, relationships, annotations, workflow subscriptions and event actions, metadata discovery, and dynamic security inheritance. Process Engine API topics that we discuss include launching a workflow, searching for and processing work items, and

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working with process status. The more complex topics we cover include, Component Integrator application space, role, workbasket, resource navigation in Process Engine REST API, ECM Widgets, and building a custom Get Next In-basket widget. To help you better understand programming with IBM FileNet APIs, we provide a sample application implemented for a fictional company. We include the data model, security model, workflows, and various applications developed for the sample.

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You can download them for your reference. This book is intended for IBM FileNet P8 application developers. We recommend using this book in conjunction with the online ECM help.

The two-volume set LNAI 10061 and 10062 constitutes the proceedings of the 15th Mexican International Conference on Artificial Intelligence, MICA I 2016, held in Cancún, Mexico, in October 2016. The total of 86 papers presented in these two volumes was carefully reviewed and

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selected from 238 submissions. The contributions were organized in the following topical sections: Part I: natural language processing; social networks and opinion mining; fuzzy logic; time series analysis and forecasting; planning and scheduling; image processing and computer vision; robotics. Part II: general; reasoning and multi-agent systems; neural networks and deep learning; evolutionary algorithms; machine learning; classification

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**and clustering;
optimization; data mining;
graph-based algorithms;
and intelligent learning
environments.**

**A guide to using open
source software covers
such topics as assessing
open source business
models, selecting open
source software, and
locating technical
support.**

**Enterprise and web
applications require full-
featured, "Google-quality"
searchcapabilities, but
such features are
notoriously difficult to
implement and**

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maintain. Hibernate Search builds on the Lucene feature set and offers an easy-to-implement interface that integrates seamlessly with Hibernate-the leading data persistence solution for Java applications. *Hibernate Search in Action* introduces both the principles of enterprise search and the implementation details a Java developer will need to use Hibernate Search effectively. This book blends the insights of the *Hibernate Search* lead developer with the

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practical techniques required to index and manipulate data, assemble and execute search queries, and create smart filters for better search results. Along the way, the reader masters performance-boosting concepts like using Hibernate Search in a clustered environment and integrating with the features already in your applications. This book assumes you're a competent Java developer with some experience using Hibernate and Lucene.

Purchase of the print book

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comes with an offer of a free PDF, ePub, and Kindle eBook from Manning. Also available is all code from the book.

Cloud Deployments Made Easy

Develop Rules-based Business Logic Using the Drools Platform

Configuring, Using, and Maintaining a Complete Programming Environment

Pro Hibernate and MongoDB

15th Mexican International Conference on Artificial Intelligence, MICA I 2016, Cancún, Mexico, October 23–28, 2016, Proceedings, Part I

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Big Data Succeeding with Open Source

*A Practical Guide for
Business Analysts*

JBoss in Action is the first book to focus on teaching readers in detail how to use the JBoss application server. Unlike other titles about JBoss, the authors of JBoss in Action go deeper into the advanced features and configuration of the server. In particular, it focuses on enterprise-class topics, such as high availability, security, and performance. This book walks readers through the JBoss 5 Application Server from installation to

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configuration to production development. It shows how to configure the server's various component containers such as the JBoss Web Server, the EJB 3 server, and JBoss Messaging. It also provides detailed insight into configuring the various component services such as security, performance, and clustering. Beyond coverage of the core application server, the book also teaches how to use some of the "hot" technologies that run on top of the application server, such as Jboss Seam and JBoss Portal. Purchase of the print book comes with an offer of a free PDF, ePub, and Kindle

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eBook from Manning. Also available is all code from the book. The authors, both seasoned professional experts at developing and administering JBoss, provide meaningful explanations and background on many topics which they tie in with their own practical, real-world advice from their collective experience. These uniquely comprehensive explanations and the wide coverage provided in this book surpass any other content currently available in any other book, article, or documentation on the subject.

Includes more than 30 percent revised material and

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five new chapters, covering the new 2.1 features such as EJB Timer Service and JMS as well as the latest open source Java solutions The book was developed as part of TheServerSide.com online EJB community, ensuring a built-in audience

Demonstrates how to build an EJB system, program with EJB, adopt best practices, and harness advanced EJB concepts and techniques, including transactions, persistence, clustering, integration, and performance optimization Offers practical guidance on when not to use EJB and how to use simpler, less costly open source technologies in

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*place of or in conjunction
with EJB*

Enterprise JavaBeans, Fourth Edition, is the definitive guide to EJB 2.1. It shows you how to build complex, mission-critical systems using snap-together software components that model business objects and processes. EJB 2.1 makes several important steps forward in EJB technology: message-driven beans are much more flexible, a time service has been added, and EJBs have been integrated with web services.

Enterprise JavaBeans delivers on a promise that was astonishing a few years ago: not only can EJBs run

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without modification on any operating system, they can run on any J2EE application server. However, after writing EJBs, you have to deploy them in an application server, and deploying EJBs can be a painful task. This edition includes the Jboss Workbook, which shows you how to deploy the examples on the open source JBoss Application Server. If you've done any enterprise software development in the past few years, you already know the extent to which EJB has changed the field. Use this book to catch up on the latest developments. If you're new to enterprise

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software development, or if you haven't been working with EJB, this book will bring you up to speed on this exciting technology for building business systems.

The Official Guide

Pro Hadoop Data Analytics

Innovation Happens Elsewhere

Microservice Architecture

Intelligent Systems in

Operations: Methods, Models

and Applications in the

Supply Chain

Plug-ins for J2EE

Development

Enterprise JavaBeans

Distributed applications are difficult to write as programmers need to adhere to specific distributed systems programming conventions and frameworks, which makes distributed

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systems development complex and error prone and ties the resultant application to the distributed system because the application's code is tangled with the crosscutting concern distribution. This book introduces the concept of a domain-specific aspect language called a Distribution Definition Language that generalises the distribution and distribution recovery concerns by describing the classes and methods of an existing application to be made remote, the distributed system to use to make them remote and the recovery mechanism to use in the event of an error. A software tool in the form of the RemoteJ compiler/generator that uses information contained in the Distribution Definition Language to generate the recovery and distributed system specific code and apply it to

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the application using bytecode manipulation and generation techniques is introduced. By allowing distribution and autonomic features, such as recovery, to be modularised and applied to existing applications this approach greatly simplifies distributed systems and autonomics development. This book is of particular interest to researchers and students of distributed systems, autonomics, domain-specific aspect languages and aspect-orientation.

Learn how to successfully implement trustworthy computing tasks using aspect-oriented programming This landmark publication fills a gap in the literature by not only describing the basic concepts of trustworthy computing (TWC) and aspect-oriented programming (AOP), but also exploring their critical

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interrelationships. The author clearly demonstrates how typical TWC tasks such as security checks, in-and-out conditions, and multi-threaded safety can be implemented using AOP. Following an introduction, the book covers: Trustworthy computing, software engineering, and computer science Aspect-oriented programming and Aspect.NET Principles and case studies that apply AOP to TWC Coverage includes Aspect.NET, the AOP framework developed by the author for the Microsoft.NET platform, currently used in seventeen countries. The author discusses the basics of Aspect.NET architecture, its advantages compared to other AOP tools, and its functionality. The book has extensive practical examples and case studies of trustworthy software design and code using the

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Aspect.NET framework. In addition, the book explores other software technologies and tools for using AOP for trustworthy software development, including Java and AspectJ. This book also includes a valuable chapter dedicated to ERATO, the author's teaching method employed in this book, which has enabled thousands of students to quickly grasp and apply complex concepts in computing and software engineering, while the final chapter presents an overall perspective on the current state of AOP and TWC with a view toward the future. Software engineers, architects, developers, programmers, and students should all turn to this book to learn this tested and proven method to create more secure, private, and reliable computing.

Two leading Linux developers show

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how to choose the best tools for your specific needs and integrate them into a complete development environment that maximizes your effectiveness in any project, no matter how large or complex. Includes research, requirements, coding, debugging, deployment, maintenance and beyond, choosing and implementing editors, compilers, assemblers, debuggers, version control systems, utilities, using Linux Standard Base to deliver applications that run reliably on a wide range of Linux systems, comparing Java development options for Linux platforms, using Linux in cross-platform and embedded development environments.

Jython is an open source implementation of the high-level, dynamic, object-oriented scripting language Python seamlessly

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integrated with the Java platform. The predecessor to Jython, JPython, is certified as 100% Pure Java. Jython is freely available for both commercial and noncommercial use and is distributed with source code. Jython is complementary to Java. The Definitive Guide to Jython, written by the official Jython team leads, covers Jython 2.5 (or 2.5.x)—from the basics to more advanced features. This book begins with a brief introduction to the language and then journeys through Jython ' s different features and uses. The Definitive Guide to Jython is organized for beginners as well as advanced users of the language. The book provides a general overview of the Jython language itself, but it also includes intermediate and advanced topics regarding database, web, and graphical user interface (GUI)

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applications; Web services/SOA; and integration, concurrency, and parallelism, to name a few.

Configuring the JBoss Application Server

Managing J2EE with Java

Management Extensions

Mastering Enterprise JavaBeans

Pro Eclipse JST

Alfresco Developer Guide

Using Aspect-Oriented Programming for Trustworthy Software Development

Java Server Programming Java Ee5

Black Book, Platinum Ed (With Cd)

Many bookstores offer numerous

choices of books on Java Server

Programming; however, most of

these books are intricate and

complex to grasp. So, what are

your chances of picking up the right

one? If this question has been

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troubling you, be rest assured now!
This book, Java Server Programming: Java EE 5 (J2EE 1.5) Black Book, Platinum Edition, is a one-time reference book that covers all aspects of Java EE in an easy-to-understand approach for example, how an application server runs; how GlassFish Application server deploys a Java application; a complete know-how of design patterns, best practices, and design strategies; working with Java related technologies such as NetBeans IDE 6.0, Hibernate, Spring, and Seam frameworks; and proven solutions using the key Java EE technologies, such as JDBC, Servlets, JSP, JSTL, RMI, JNDI, JavaMail, Web services, JCA,

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Struts, JSF, UML, and much more&
All this, as the book explores these
concepts with appropriate
examples and executable
applications no doubt, every aspect
of the book is worth its price.

If you are a Java developer who
wants to learn about Java EE, this
is the book for you. It's also ideal
for developers who already have
experience with the Java EE
platform but would like to learn
more about the new Java EE 7
features by analyzing fully
functional sample applications
using the new application server
WildFly.

Customizing Alfresco with actions,
web scripts, web forms, workflows,
and more

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* The concepts of AOP are presented independently of any particular implementation * The book covers all 4 major existing tools for AOP: AspectJ, JBoss AOP, AspectWerkz, JAC * The book covers the implementation of a technical aspect based on the Hibernate object/relational persistence framework, a J2EE application implemented with AspectJ, and applications of AOP in the domains of programming by contracts, program testing, and application management

Exploring Splunk
The Linux Development Platform
Advances in Computational Intelligence
JBoss 4.0

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Mastering Apache Solr
Methods, Models and Applications
in the Supply Chain
Splunk Primer and the Search
Processing Language

*It's a plain fact:
regardless of how smart,
creative, and innovative
your organization is,
there are more smart,
creative, and innovative
people outside your
organization than inside.
Open source offers the
possibility of bringing
more innovation into your
business by building a
creative community that
reaches beyond the
barriers of the business.*

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*The key is developing a web-driven community where new types of collaboration and creativity can flourish. Since 1998 Ron Goldman and Richard Gabriel have been helping groups at Sun Microsystems understand open source and advising them on how to build successful communities around open source projects. In this book the authors present lessons learned from their own experiences with open source, as well as those from other well-known projects such as Linux, Apache, and Mozilla. **

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*Winner of 2006 Jolt Productivity Award for General Books * Describes how open source development works and offers persuasive reasons for using it to help achieve business goals. * Shows how to use open source in day-to-day work, discusses the various licenses in use, and describes what makes for a successful project. * Written in an engaging style for executives, managers, and engineers that addresses the human and business issues involved in open source*

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development as well as its history, philosophy, and future

- Explains security concepts in simple terms and relates these to standards, Java APIs, software products and day-to-day job activities of programmers. - Written by a practitioner who participated in the development of a J2EE App Server and Web Services Platform at HP. - Applied security measures demonstrated on Java APIs - a unique feature of the book.

Big data has incredible

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business value, and Splunk is the best tool for unlocking that value.

Exploring Splunk shows you how to pinpoint answers and find patterns obscured by the flood of machinegenerated data.

This book uses an engaging, visual presentation style that quickly familiarizes you with how to use Splunk.

You'll move from mastering Splunk basics to creatively solving real-world problems, finding the gems hidden in big data.

Microservices is an

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architectural style in which large, complex software applications are composed of one or more smaller services. Each of these microservices focuses on completing one task that represents a small business capability. These microservices can be developed in any programming language. This IBM® Redbooks® publication covers Microservices best practices for Java. It focuses on creating cloud native applications using the latest version of IBM WebSphere® Application Server Liberty, IBM

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Bluemix® and other Open Source Frameworks in the Microservices ecosystem to highlight Microservices best practices for Java.

JMX

Python for the Java Platform

Developing Applications with IBM FileNet P8 APIs

Enterprise Java

Development on a Budget Business Process

Management with Jboss Jbpm

Hibernate Search in Action

J2EE Security for

Servlets, EJBs and Web Services

This is a problem-solution guide that starts with an introduction to a

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problem and continues with a discussion of the possible solution. The book covers best practices when working with Drools. The examples and their solutions are accompanied by plenty of code listings and figures providing a better view of the problem. The book is for Java developers who want to create rules-based business logic using the Drools platform. Basic knowledge of Java is essential.

RichFaces 4 is a component library for JavaServer Faces, and an advanced framework for easily integrating AJAX capabilities into business applications. It lets you quickly develop next-generation web applications based on JSF 2/Ajax.

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In this definitive RichFaces 4 book, instead of using JBoss Tools, the author bases all examples on Maven so that any IDE can be used—whether it's NetBeans, Eclipse, JBoss or even Spring. Practical RichFaces also describes how to best take advantage of RichFaces—the integration of the Ajax4jsf and RichFaces libraries—to create flexible and powerful programs. Assuming some JSF background, it shows how you can radically reduce programming time and effort to create rich AJAX-based applications. This book presents 5 tutorial lectures given by leading researchers at the 15th edition of the

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International School on Formal Methods for the Design of Computer, Communication and Software Systems, SFM 2015, held in Bertinoro, Italy, in June 2015. SFM 2015 was devoted to multicore programming and covered topics such as concurrency and coordination mechanisms, architecture and memory models and type systems.

Part of Packt's cookbook series, this book is packed with easy to follow recipes containing step-by-step instructions. The book is designed in such a way that you can read it chapter by chapter, or refer to the tasks in no particular order. This book is for Drools developers who

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want to improve their current working methods and discover new features to apply to their projects. Readers are expected to be familiar with the basics of the Drools platform as well as Java.

RESTful Java with JAX-RS 2.0

The Definitive Guide to Jython

Java EE 7 Development with WildFly

JBoss in Action

Foundations of AOP for J2EE Development

Drools JBoss Rules 5.0 Developer's Guide

Formal Methods for Multicore Programming

Open source has had a profound effect on the

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Java community. Many Java open source projects have even become de-facto standards. The principal purpose of Enterprise Java Development on a Budget is to guide you through the development of a real enterprise Java application using nothing but open source Java tools, projects, and frameworks. This book is organized by activities and by particular open source projects that can help you take on the

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challenges of building the different tiers of your applications. The authors also present a realistic example application that covers most areas of enterprise application development. You'll find information on how to use and configure JBoss, Ant, XDoclet, Struts, ArgoUML, OJB, Hibernate, JUnit, SWT/JFace, and others. Not only will you learn how to use each individual tool, but you'll also understand how to use

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them in synergy to create robust enterprise Java applications within your budget. Enterprise Java Development on a Budget combines coverage of best practices with information on the right open source Java tools and technologies, all of which will help support your Java development budget and goals.

Explains how to create management systems with JMX, create MBeans and services, and use the MBean server, and offers working examples of

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topics including JMX connectors and agent discovery.

Learn advanced analytical techniques and leverage existing tool kits to make your analytic applications more powerful, precise, and efficient. This book provides the right combination of architecture, design, and implementation information to create analytical systems that go beyond the basics of classification, clustering, and

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recommendation. Pro Hadoop Data Analytics emphasizes best practices to ensure coherent, efficient development. A complete example system will be developed using standard third-party components that consist of the tool kits, libraries, visualization and reporting code, as well as support glue to provide a working and extensible end-to-end system. The book also highlights the importance of end-to-

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end, flexible, configurable, high-performance data pipeline systems with analytical components as well as appropriate visualization results. You'll discover the importance of mix-and-match or hybrid systems, using different analytical components in one application. This hybrid approach will be prominent in the examples. What You'll Learn Build big data analytic systems with the Hadoop ecosystem Use

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libraries, tool kits,
and algorithms to make
development easier and
more effective Apply
metrics to measure
performance and
efficiency of components
and systems Connect to
standard relational
databases, noSQL data
sources, and more Follow
case studies with
example components to
create your own systems
Who This Book Is For
Software engineers,
architects, and data
scientists with an
interest in the design

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and implementation of big data analytical systems using Hadoop, the Hadoop ecosystem, and other associated technologies.

* First book on enterprise development using Eclipse * First J2EE Standard Tools (JST) book to market * Based on latest Eclipse 3 standard—a hot topic
Autonomics Development: A Domain-Specific Aspect Language Approach
A practical guide to get to grips with Apache Solr

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Software Development
The J2EE Tutorial
Applying Theory and
Standards to Practice
DevOps with OpenShift
Designing and Building
Big Data Systems using
the Hadoop Ecosystem
*Learn how to design and
develop distributed web
services in Java, using
RESTful architectural
principles and the JAX-
RS 2.0 specification in
Java EE 7. By focusing
on implementation rather
than theory, this hands-
on reference
demonstrates how easy it*

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is to get started with services based on the REST architecture. With the book's technical guide, you'll learn how REST and JAX-RS work and when to use them. The RESTEasy workbook that follows provides step-by-step instructions for installing, configuring, and running several working JAX-RS examples, using the JBoss RESTEasy implementation of JAX-RS 2.0. Learn JAX-RS 2.0 features, including a client API, server-side asynchronous HTTP, and

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filters and interceptors
Examine the design of a
distributed RESTful
interface for an e-
commerce order entry
system Use the JAX-RS
Response object to
return complex responses
to your client
(ResponseBuilder)
Increase the performance
of your services by
leveraging HTTP caching
protocols Deploy and
integrate web services
within Java EE7, servlet
containers, EJB, Spring,
and JPA Learn popular
mechanisms to perform

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authentication on the Web, including client-side SSL and OAuth 2.0

"This book provides knowledge and insights on present and future AI applications in Operations Management presenting tools and decisions in terms of theoretical and empirical models, methods and proposed applications"--Provided by publisher.

Annotation JBoss AS is the most used Java application server on the market meeting high

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standards of reliability, efficiency, and robustness and is used to build powerful and secure Java EE applications. It supports the most important areas of Java Enterprise programming including EJB 3.0, dependency injection, web services, the security framework, and more. Getting started with JBoss application server development can be challenging; however, with the right approach and guidance, you can

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easily master it and this book promises that. Written in an easy-to-read style, this book will take you from the basics of JBoss AS_such as installing core components and plug-ins_to the skills that will make you a JBoss developer to be reckoned with, covering advanced topics such as developing applications with JBoss Messaging service, JBoss web services, clustered applications, and more. You will learn the

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necessary steps to install a suitable environment for developing enterprise applications on JBoss AS. Then, your journey will continue through the heart of the application server, explaining how to customize each service for optimal usage. You will learn how to design Enterprise applications using Eclipse and JBoss plug-ins. You will then learn how to enable distributed communication using JMS.

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Storing and retrieving objects will be made easier using Hibernate. The core section of the book will take you into the programming arena with tested, real-world examples. The example programs have been carefully crafted to be easy to understand and useful as starting points for your applications. This book will kick-start your productivity and help you to master JBoss AS development. The author's experience with

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JBoss enables him to share insights on JBoss AS development, in a clear and friendly way. By the end of the book, you will have the confidence to apply all the newest programming techniques to your JBoss applications.

Big Data: Principles and Paradigms captures the state-of-the-art research on the architectural aspects, technologies, and applications of Big Data. The book identifies potential

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future directions and technologies that facilitate insight into numerous scientific, business, and consumer applications. To help realize Big Data's full potential, the book addresses numerous challenges, offering the conceptual and technological solutions for tackling them. These challenges include life-cycle data management, large-scale storage, flexible processing infrastructure, data modeling, scalable

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machine learning, data analysis algorithms, sampling techniques, and privacy and ethical issues. Covers computational platforms supporting Big Data applications Addresses key principles underlying Big Data computing Examines key developments supporting next generation Big Data platforms Explores the challenges in Big Data computing and ways to overcome them Contains expert contributors from both academia and

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industry

Leveraging Java Open

Source Technologies

15th International

School on Formal Methods

for the Design of

Computer, Communication,

and Software Systems,

SFM 2015, Bertinoro,

Italy, June 15-19, 2015,

Advanced Lectures

Drools Developer's

Cookbook

Open Solutions and

Approaches

Designing and Developing

Distributed Web Services

Microservices Best

Practices for Java

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*Aligning Principles,
Practices, and Culture*

Provides example programs and their source code to explore concepts and technologies including Enterprise JavaBeans, JavaServer Pages, Java Message Service, and Java Naming and Directory Interface.

Microservices can have a positive impact on your enterprise—just ask Amazon and Netflix—but you can fall into many traps if you don't approach them in the right way. This practical guide covers the entire microservices landscape, including the principles, technologies, and methodologies of this unique, modular style of system building. You'll learn about the experiences of organizations around the globe that have successfully adopted

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microservices. In three parts, this book explains how these services work and what it means to build an application the Microservices Way. You ' ll explore a design-based approach to microservice architecture with guidance for implementing various elements. And you ' ll get a set of recipes and practices for meeting practical, organizational, and cultural challenges to microservice adoption. Learn how microservices can help you drive business objectives Examine the principles, practices, and culture that define microservice architectures Explore a model for creating complex systems and a design process for building a microservice architecture Learn the fundamental design concepts for individual microservices Delve into the operational elements of a

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microservices architecture, including containers and service discovery
Discover how to handle the challenges of introducing microservice architecture in your organization

"This book provides a comprehensive collection of state-of-the-art advancements in rule

languages"--Provided by publisher.

If you need to understand how JBoss works, why not learn it from the people who created it? JBoss 4.0 - The Official Guide is the authoritative resource recognized as the official print documentation for JBoss 4.0. The only book for advanced JBoss users, this guide presents a complete understanding to configuring and using JBoss 4.0. It is fully up-to-date with the new features and changes in JBoss 4.0, including those used to

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integrate development with Eclipse, incorporate Aspect-Oriented Programming and implement J2EE 1.4 functionality months ahead of the commercial competition. Get under the hood and explore everything that JBoss 4.0 can offer you with JBoss 4.0 - The Official Guide.

Open Source as Business Strategy
Principles and Paradigms
Handbook of Research on Emerging
Rule-Based Languages and
Technologies: Open Solutions and
Approaches

Practical RichFaces

JBoss AS 5 Development

For many organizations, a big part of DevOps' appeal is software automation using infrastructure-as-code techniques. This book presents

developers, architects, and infra-ops engineers with a more practical option. You'll learn how a container-centric approach from OpenShift, Red Hat's cloud-based PaaS, can help your team deliver quality software through a self-service view of IT infrastructure. Three OpenShift experts at Red Hat explain how to configure Docker application containers and the Kubernetes cluster manager with OpenShift's developer- and operational-centric tools. Discover how this infrastructure-agnostic container management platform can help companies

navigate the murky area where infrastructure-as-code ends and application automation begins. Get an application-centric view of automation—and understand why it's important Learn patterns and practical examples for managing continuous deployments such as rolling, A/B, blue-green, and canary Implement continuous integration pipelines with OpenShift's Jenkins capability Explore mechanisms for separating and managing configuration from static runtime software Learn how to use and customize OpenShift's source-to-image capability

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Delve into management and operational considerations when working with OpenShift-based application workloads
Install a self-contained local version of the OpenShift environment on your computer
Hibernate and MongoDB are a powerful combination of open source persistence and NoSQL technologies for today's Java-based enterprise and cloud application developers.
Hibernate is the leading open source Java-based persistence, object relational management engine, recently repositioned as an object grid management engine. MongoDB is a growing, popular open source NoSQL

framework, especially popular among cloud application and big data developers. With these two, enterprise and cloud developers have a "complete out of the box" solution. Pro Hibernate and MongoDB shows you how to use and integrate Hibernate and MongoDB. More specifically, this book guides you through the bootstrap; building transactions; handling queries and query entities; and mappings. Then, this book explores the principles and techniques for taking these application principles to the cloud, using the OpenShift Platform as a

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Service (PaaS) and more. In this book, you get two case studies: An enterprise application using Hibernate and MongoDB. then, A cloud application (OpenShip) migrated from the enterprise application case study After reading or using this book, you come away with the experience from two case studies that give you possible frameworks or templates that you can apply to your own specific application or cloud application building context.

Topic: In the open source, full-text search community, a leader emerges - Apache Solr. Apache Solr enables you to

index and access documents orders of magnitude faster than classical databases and thereby provides a first-class search experience to your end users. Brief Description: Mastering Apache Solr is a practical, hands-on guide containing crisp, relevant, systematically arranged, and progressive chapters. These chapters contain a wealth of information presented in a direct and easy-to-understand manner. This book covers key technical concepts, highlighting Solr's supremacy over classical databases in full-text search, which will help you accelerate your progress in the

Solr world. Detailed Description: Mastering Apache Solr starts with an introduction to Apache Solr, its underlying technologies, the main differences between the classical database engines, and gradually moves to more advance topics like boosting performance. In this book, we will look under the hood of a large number of topics and discuss answers to pertinent questions like why denormalize data, how to import classical databases' data inside Apache Solr, how to serve Solr through five different web servers, how to optimize them to serve Solr even faster. An important and

major topic covered in this book is Solr's querying mechanism, which will prove to be a strong ally in our journey through this book. We then look at boosting performance and deploying Solr using several servlet servers. Finally, we cover how to communicate with Solr using different programming languages, before deploying it in a cloud-based environment. Who this book is for: Mastering Apache Solr has been written for developers, programmers, and data specialists who want to take a leap towards the future of full-text storage and search and offer a world-class

experience to their users. The reader is expected to have a working knowledge of traditional databases, Linux-based operating systems, and XML configuration files. Style and Approach: Mastering Apache Solr is written lucidly and has a dynamically simple approach. From the first page to the last, the book remains practical and focuses on the most important topics used in the world of Apache Solr without neglecting important theoretical fundamentals that help you build a strong foundation. Conclusion: Mastering Apache Solr will empower you to provide a

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**world-class search experience
to your end users through the
discovery of the powerful
mechanisms presented in this
book.**