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J1XLPG - ALEJANDRO SULLIVAN

If you are a Java developer or architect who needs to have a better understanding of how Business Process Management frameworks behave in real-life implementations, this book is for you. This book assumes that you know the Java language well and are familiar with some widely used frameworks such as Hibernate. You should also know the basics of relational databases and Maven-based applications. This book proposes a consistent methodology for building intelligent systems. It puts forward several formal models for designing and implementing rules-based systems, and presents illustrative case studies of their applications. These include software engineering, business process systems, Semantic Web, and context-aware systems on mobile devices. Rules offer an intuitive yet powerful method for representing human knowledge, and intelligent systems based on rules have many important applications. However, their practical development requires proper techniques and models - a gap that this book effectively addresses.

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

vice 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. 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 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.

Build your own enterprise applications and integration flows with JBoss and its products About This Book Build fast, smart, and flexible applications using JBoss Couple one or more JBoss products to effectively solve various business problems Explore the JBoss product ecosystem for improving the performance of your projects Who This Book Is For If you are a Java developer who wants to have a complete view of the JBoss ecosystem or quickly explore a specific JBoss Product, then this is the book you want. Integrators and consultants, familiar with JBoss, who want integrate several JBoss products within their ongoing project will also find this book useful. What You Will Learn Create new applications or integrate existing systems with JBoss products Setup and manage a JBoss domain Setup and manage a JBoss Fuse cluster with Fabric and Apache Karaf Create and deploy OSGi applications on JBoss Fuse containersv Manage enterprise data with JBoss Datagrid Aggregate various data sources with JBoss Data virtualization to offer data as a service Optimize your business and workflows with both JBoss Business RulesManagement System and JBoss Business Process Management platforms. In Detail Have you often wondered what is the best JBoss product to solve a specific problem? Do you want to get started with a specific JBoss product and know how to integrate different JBoss products in your

IT Systems? Then this is the book for you. Through hands-on examples from the business world, this guide presents details on the major products and how you can build your own Enterprise services around the JBoss ecosystem. Starting with an introduction to the JBoss ecosystem, you will gradually move on to developing and deploying clustered application on JBoss Application Server, and setting up high availability using undertow or HA proxy loadbalancers. As you are moving to a micro service architecture, you will be taught how to package existing Java EE applications as micro service using Swarm or create your new micro services from scratch by coupling most popular Java EE frameworks like JPA, CDI with Undertow handlers. Next, you will install and configure JBoss Data grid in development and production environments, develop cache based applications and aggregate various data source in JBoss data virtualization. You will learn to build, deploy, and monitor integration scenarios using JBoss Fuse and run both producers/consumers applications relying on JBoss AMQ. Finally, you will learn to develop and run business workflows and make better decisions in your applications using Drools and Jboss BPM Suite Platform. Style and Approach The book works through the major JBoss products, with examples and instructions to help you understand each product and how they work together.

Provides advice for deploying and administering JBoss and J2EE applications, covering topics such as infrastructure, messaging, mail, transactions, security, and connectivity.

"This reference offers a wide-ranging selection of key research in a complex field of study, discussing topics ranging from using machine learning to improve the effectiveness of agents and multi-agent systems to developing machine learning software for high frequency trading in financial markets"--Provided by publishe

Web browsing would not be what it is today without the use of Service-Oriented Architecture (SOA). Although much has been written about SOA methodology, this emerging platform is continuously under development. Exploring Enterprise Service Bus in the Service-Oriented Architecture

Paradigm is a detailed reference source that examines current aspects and research methodologies that enable enterprise service bus to unify and connect services efficiently on a common platform. Featuring relevant topics such as SOA reference architecture, grid computing applications, complex event computing, and java business integration, this is an ideal resource for all practitioners, academicians, graduate students, and researchers interested in the discoveries on the relationship that Service-Oriented architecture and enterprise service bus share.

Create modular scalable enterprise-grade applications with JBoss Enterprise Application Platform 7 About This Book Leverage the power of JBoss EAP 7 along with Java EE 7 to create professional enterprise grade applications. Get you applications cloud ready and make them highly scalable using this advanced guide. Become a pro Java Developer and move ahead of the crowd with this advanced practical guide. Who This Book Is For The ideal target audience for this book is Java System Administrators who already have some experience with JBoss EAP and who now want explore in depth creating Enterprise grade apps with the latest JBoss EAP version. What You Will Learn Configure services using the Command Line Interface Deliver fault tolerant server configurations Harden the application server with advanced techniques Expand the application server's horizon with tools such as like Docker/OpenShift Create enterprise ready configurations using clustering techniques. Deliver advanced security solutions and learn how to troubleshoot common network/performance issues In Detail The JBoss Enterprise Application Platform (EAP) has been one of the most popular tools for Java developers to create modular, cloud-ready, and modern applications. It has achieved a reputation for architectural excellence and technical savvy, making it a solid and efficient environment for delivering your applications. The book will first introduce application server configuration and the management instruments that can be used to control the application server. Next, the focus will shift to enterprise solutions such as clustering, load balancing, and data caching; this will be the core of the book. We will also discuss services provided by the application server, such as database connectivity and logging. We focus on real-world example configurations and how to avoid common mistakes. Finally, we will implement the knowledge gained so far in terms of Docker containers and cloud availability using RedHat's OpenShift. Style and approach If you are a Java developer who wants to level-up to

modern day Java web development with the latest Java EE 7 and JBoss EAP 7, this book is the ideal solution for you. It addresses (in a clear and simple way) proof-of-concept scenarios such as clustering and cloud and container configurations, and explains how to solve common issues.

This book constitutes the refereed proceedings of the Second SKLOIS Conference on Information Security and Cryptology, Inscrypt 2006, held in Beijing, China in November/December 2006. The 23 revised full papers cover digital signature schemes, sequences and stream ciphers, symmetric-key cryptography, cryptographic schemes, network security, access control, computer and applications security, as well as Web and media security.

This book constitutes the refereed proceedings of the International RuleML Symposium, RuleML 2012, held in Montpellier, France, in August 2012 - collocated with the 20th biennial European Conference on Artificial Intelligence, ECAI 2012. The 14 full papers, 8 short papers and 2 track papers presented together with 2 keynote talks were carefully reviewed and selected from numerous submissions. The accepted papers address topics such as business rules and processes; rule-based event processing and reaction rules; rule-based policies and agents on the pragmatic web; rules and the semantic web; rule markup languages and rule interchange; and rule transformation, extraction and learning.

Fully Updated to Cover Major Enhancements to Seam 2.x In Seam Framework, Second Edition, the authors of the leading guide to Seam programming have systematically updated their text to reflect the major improvements introduced with Seam 2.x. This author team—all key Seam project contributors—teach Seam 2.x through detailed example applications that reveal how Seam simplifies many tasks that were previously difficult or impractical. Their robust descriptions are complemented by in-depth feature discussions that demonstrate how to use Seam's power to the fullest. Whether you're new to Seam programming or a seasoned Seam developer who wants to achieve deeper mastery of Seam 2.x, this book will be an indispensable resource. Coverage includes Using improvements to Seam's conversation model, transaction management, and other features Enhancing security, performing end-to-end validation, and providing custom exception pages Using Quartz to execute timer jobs in your application Generating bookmarkable RESTful Web pages the easy way Developing highly scalable applications with Seam 2.x's new multilayer caching Simplifying development with

Groovy, the scripting language that runs directly on the JVM Using jBPM business processes to improve page flow Previewing Web Beans (JSR-299), the future core of Seam that will transform Java EE Web development *Download source code for this book's case study application at solution-sfit.com/seam.

JBoss Application server is the most popular open source Java application server, renamed from this release and on as WildFly. This book covers all details on administration and management aspect of this new version of the application server. Focusing exclusively on the management instruments of the application server, the book takes you through all of the latest architectural and performance changes. You'll progress from basic server configuration to more advanced techniques for clustering, JDBC connectivity, logging, and much more. What you will learn from this book: - How to install the application server on Windows and Unix/Linux systems including details for installing it as a service - Steps for packaging and deploying web applications - Configuring the services stack, including the new Undertow Web subsystem - Deploying Wildfly 8 with the Apache Web server and mod_cluster - Monitoring Wildfly 8 servers in realtime - Secure applications and encrypt their communication

There's nothing ordinary about JBoss. What began as an open source EJB container project six years ago has become a fully certified J2EE 1.4 application server with the largest market share, competitive with proprietary Java application servers in features and quality. And with its dynamic architecture, JBoss isn't just a J2EE server. You can alter the services to make J2EE work the way you want, or even throw J2EE away completely. After more than a million downloads, many JBoss users are no longer trying it out on internal test boxes, but rolling it out on production machines. JBoss: A Developer's Notebook takes you on a complete tour of JBoss in a very unique way: rather than long discussions, you will find code—lots of code. In fact, the book is a collection of hands-on labs that take you through the critical JBoss features step-by-step. You don't just read about JBoss, you learn it through direct practical application. That includes exploring the server's many configurations: from bare features for simple applications, to the lightweight J2EE configuration, to everything JBoss has in store—including Hibernate and Tomcat. JBoss: A Developer's Notebook also introduces the management console, the web services messaging features, enhanced monitoring capabili-

ties, and shows you how to improve performance. At the end of each lab, you'll find a section called "What about..." that anticipates and answers likely follow-up questions, along with a section that points you to articles and other resources if you need more information. JBoss is truly an extraordinary application server. And we have an extraordinary way for you to learn it.

This IBM® Redbooks® publication helps you plan and execute the migration of J2EE applications developed for Oracle WebLogic Server, JBoss, GlassFish, and Apache Tomcat, so that they run on WebSphere® Application Server V7. This book provides detailed information to plan migrations, suggested approaches for developing portable applications, and migration working examples for each of the platforms from which we migrated. It is not our intention to provide a feature-by-feature comparison of these application servers versus WebSphere Application Server V7, or to argue the relative merits of the products, but to produce practical technical advice for developers who have to migrate applications from these vendors to WebSphere Application Server V7. The book is intended as a migration guide for IT specialists who are working on migrating applications written for other application servers to WebSphere Application Server V7.

WildFly is the most popular open-source Java application server. This book is an in-depth guide to the administration and management of the application server, covering all of the latest architectural and management changes such as: - How to achieve High Availability of your WildFly cluster - How to configure the newest subsystems (agroal, mp subsystems) - Delivering advanced and leak-proof Datasource configuration - Provisioning custom Server distributions with Galleon tool. - Using the Undertow Web server as front-end for mod_cluster and as Reverse Proxy Server - Migrating your older legacy configurations to WildFly newer subsystems - Securing the application server with Elytron Framework - Configuring a robust JMS cluster with Apache Artemis MQ - Running WildFly in the cloud with Openshift and CRC - Configuring Eclipse Micro Profiles and much more, with improved online examples!

Consisting of a number of well-known open source products, JBoss is more a family of interrelated services than a single monolithic application. But, as with any tool that's as feature-rich as JBoss, there are number of pitfalls and complexities, too. Most developers struggle with the same issues when deploying J2EE applications on JBoss: they have trouble getting the many

J2EE and JBoss deployment descriptors to work together; they have difficulty finding out how to get started; their projects don't have a packaging and deployment strategy that grows with the application; or, they find the Class Loaders confusing and don't know how to use them, which can cause problems. JBoss at Work: A Practical Guide helps developers overcome these challenges. As you work through the book, you'll build a project using extensive code examples. You'll delve into all the major facets of J2EE application deployment on JBoss, including JSPs, Servlets, EJBs, JMS, JNDI, web services, JavaMail, JDBC, and Hibernate. With the help of this book, you'll: Implement a full J2EE application and deploy it on JBoss Discover how to use the latest features of JBoss 4 and J2EE 1.4, including J2EE-compliant web services Master J2EE application deployment on JBoss with EARs, WARs, and EJB JARs Understand the core J2EE deployment descriptors and how they integrate with JBoss-specific descriptors Base your security strategy on JAAS Written for Java developers who want to use JBoss on their projects, the book covers the gamut of deploying J2EE technologies on JBoss, providing a brief survey of each subject aimed at the working professional with limited time. If you're one of the legions of developers who have decided to give JBoss a try, then JBoss at Work: A Practical Guide is your next logical purchase. It'll show you in plain language how to use the fastest growing open source tool in the industry today. If you've worked with JBoss before, this book will get you up to speed on JBoss 4, JBoss WS (web services), and Hibernate 3.

Complexity in automation- and safety systems in railway as well as automotive applications are dominated more and more by formal description means, methods and tools. Formal techniques provide next to correctness and integrity checkups - especially for safety relevant systems - the possibility to model, prove, simulate and check the specification of the system as well as to generate the system implementations. Requirements of the CENELEC and IEC-Standards on formal techniques, particularly with regard to the handling of safety analysis, are to be treated in FORMS/FORMAT 2010. The main focus lies on topics facing formal techniques for railway applications and intelligent transportation systems as well as for automotive applications. Gained findings, experiences and also difficulties associated with the handling of the subject matter as well as description means and tools are to be shown.

This volume contains accepted papers presented at AECIA2014, the First International

al Afro-European Conference for Industrial Advancement. The aim of AECIA was to bring together the foremost experts as well as excellent young researchers from Africa, Europe, and the rest of the world to disseminate latest results from various fields of engineering, information, and communication technologies. The first edition of AECIA was organized jointly by Addis Ababa Institute of Technology, Addis Ababa University, and VSB - Technical University of Ostrava, Czech Republic and took place in Ethiopia's capital, Addis Ababa.

These transactions publish research in computer-based methods of computational collective intelligence (CCI) and their applications in a wide range of fields such as the semantic web, social networks, and multi-agent systems. TCCI strives to cover new methodological, theoretical and practical aspects of CCI understood as the form of intelligence that emerges from the collaboration and competition of many individuals (artificial and/or natural). The application of multiple computational intelligence technologies, such as fuzzy systems, evolutionary computation, neural systems, consensus theory, etc., aims to support human and other collective intelligence and to create new forms of CCI in natural and/or artificial systems. This eleventh issue contains 9 carefully selected and thoroughly revised contributions.

A Practical Guide for Business Analysts

The two-volume proceedings of the ACIIDS 2015 conference, LNAI 9011 + 9012, constitutes the refereed proceedings of the 7th Asian Conference on Intelligent Information and Database Systems, held in Bali, Indonesia, in March 2015. The total of 117 full papers accepted for publication in these proceedings was carefully reviewed and selected from 332 submissions. They are organized in the following topical sections: semantic web, social networks and recommendation systems; text processing and information retrieval; intelligent database systems; intelligent information systems; decision support and control systems; machine learning and data mining; multiple model approach to machine learning; innovations in intelligent systems and applications; bio-inspired optimization techniques and their applications; machine learning in biometrics and bioinformatics with applications; advanced data mining techniques and applications; collective intelligent systems for e-market trading, technology opportunity discovery and collaborative learning; intelligent information systems in security and defense; analysis of image, video and motion data in life sciences; augmented reality and 3D media; cloud based solutions; internet of things,

big data and cloud computing; and artificial intelligent techniques and their application in engineering and operational research.

This 4-Volume-Set, CCIS 0251 - CCIS 0254, constitutes the refereed proceedings of the International Conference on Informatics Engineering and Information Science, ICIEIS 2011, held in Kuala Lumpur, Malaysia, in November 2011. The 210 revised full papers presented together with invited papers in the 4 volumes were carefully reviewed and selected from numerous submissions. The papers are organized in topical sections on e-learning, information security, software engineering, image processing, algorithms, artificial intelligence and soft computing, e-commerce, data mining, neural networks, social networks, grid computing, biometric technologies, networks, distributed and parallel computing, wireless networks, information and data management, web applications and software systems, multimedia, ad hoc networks, mobile computing, as well as miscellaneous topics in digital information and communications.

This is a problem-solution guide that starts with an introduction to a 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. Models have become essential for supporting the development, analysis and evolution of large-scale and complex IT systems. Models allow different views, perspectives and elements of a system to be captured rigorously and precisely, thus allowing automated tools to manipulate and manage the models. In a full-edged model-driven engineering (MDE) process, the transformations developed and - pressed between models are also key. Model transformations allow the definition and implementation of the operations on models, and also provide a chain that enables the automated development of a system from its corresponding models. Model transformations are already an integral part of any model-driven approach, and there are a number of available model transformation languages, tools, and supporting environments; some of these approaches are now approaching maturity. Nevertheless, much work remains: the research community and industry need to better understand the foundations and implications of model transformations, such as the key concepts and operators supporting transformation lan-

guages, their semantics, and their structuring mechanisms and properties (e. g. , modularity, composability and parametrization). The effect of using model transformations on organizations and development processes - particularly when applied to ultra-large scale systems, or in distributed enterprises - is still not clear. These issues, and others related to the specification, design, implementation, analysis and experimentation with model transformation, are the focus of these proceedings. The Second International Conference on Model Transformation (ICMT 2009) was held in late June 2009 in Zurich, Switzerland.

The Liferay Portal Administrator's Guide is your complete guide to installing, integrating, configuring, and maintaining a Liferay Portal server. This comprehensive guide will show you how to bring up a Liferay Portal server and keep it running. From installing a bundle to configuring a Liferay cluster, every aspect of running Liferay Portal is covered.

The Installation and Configuration Guide includes information to install and configure MicroStrategy products on Windows, UNIX, Linux, and HP platforms, as well as basic maintenance guidelines.

JBoss Seam is an exciting new application framework based on the Java EE platform that is used to build rich, web-based business applications. Seam is rapidly capturing the interest of Java enterprise developers because of its focus on simplicity, ease of use, transparent integration, and scalability. Seam in Action offers a practical and in-depth look at JBoss Seam. The book puts Seam head-to-head with the complexities in the Java EE architecture. The author presents an unbiased view of Seam from outside the walls of RedHat/JBoss, focusing on such topics as Spring integration and deployment to alternative application servers to steer clear of vendor lock-in. By the end of the book, you should expect to not only gain a deep understanding of Seam, but also come away with the confidence to teach the material to others. To start off, you will see a working Java EE-compliant application come together by the end of the second chapter. As you progress through the book, you will discover how Seam eliminates unnecessary layers and configurations, solves the most common JSF pain points, and establishes the missing link between JSF, EJB 3 and JavaBean components. The author also shows you how Seam opens doors for you to incorporate technologies you previously have not had time to learn, such as business processes and stateful page flows (jBPM), Ajax remoting, PDF generation,

asynchronous tasks, and more. All too often, developers spend a majority of their time integrating disparate technologies, manually tracking state, struggling to understand JSF, wrestling with Hibernate exceptions, and constantly redeploying applications, rather than on the logic pertaining to the business at hand. Seam in Action dives deep into thorough explanations of how Seam eliminates these non-core tasks by leveraging configuration by exception, Java 5 annotations, and aspect-oriented programming. Purchase of the print book comes with an offer of a free PDF, ePub, and Kindle eBook from Manning. Also available is all code from the book.

This book provides a complete understanding of the jBPM technology stack. It starts with an introduction to the world of business process management systems, the problem domain addressed by jBPM, explores the main use cases that can be addressed by business process management systems, and illustrates the main design patterns. It takes you through the details of the architecture and available out-of-the-box provisions for customizing, extending, and integrating the features of jBPM to meet the requirements of your application. Moreover, this book will empower you with the knowledge to integrate jBPM with enterprise architecture, debug through the source code of jBPM, and utilize the flexibility provided by a heavily modular system. Finally, it introduces you to the provisions available for a jBPM-based application to put the non-functional characteristics of the system, which are of great importance when we deploy our application in production. The book helps you in putting the knowledge at work by providing you with a lot of ready to use examples, both basic and advanced ones.

This contributed volume is a result of discussions held at ABICT'13(4th International Workshop on Advances in Business ICT) in Krakow, September 8-11, 2013. The book focuses on Advances in Business ICT approached from a multidisciplinary perspective and demonstrates different ideas and tools for developing and supporting organizational creativity, as well as advances in decision support systems. This book is an interesting resource for researchers, analysts and IT professionals including software designers. The book comprises eleven chapters presenting research results on business analytics in organization, business processes modeling, problems with processing big data, nonlinear time structures and nonlinear time ontology application, simulation profiling, signal processing (including change detection problems), text processing and risk analy-

sis.

Develop JSF, Struts, Seam, Hibernate, jBPM, ESB, web services, and portal applications faster than ever using JBoss Tools for Eclipse and the JBoss Application Server.

The Liferay Portal Administrator's Guide is your complete guide to installing, integrating, configuring, and maintaining Liferay Portal. This comprehensive guide will show you how to install Liferay Portal, configure it for your use, and maintain your Liferay-powered site on a day-to-day basis. From installing a bundle to configuring a Liferay cluster, every aspect of running Liferay Portal is covered. This newly-updated guide is your roadmap to a successful implementation of Liferay Portal. Now covering Liferay Portal 5.1 and below, this book contains the information you need to keep your portal environment running smoothly. 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 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 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 experi-

ence. 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.

This book starts with an introduction to process modeling and process paradigms, then explains how to query and analyze process models, and how to analyze the process execution data. In this way, readers receive a comprehensive overview of what is needed to identify, understand and improve business processes. The book chiefly focuses on concepts, techniques and methods. It covers a large body of knowledge on process analytics - including process data querying, analysis, matching and correlating process data and models - to help practitioners and researchers understand the underlying concepts, problems, methods, tools and techniques involved in modern process analytics. Following an introduction to basic business process and process analytics concepts, it describes the state of the art in this area before examining different analytics techniques in detail. In this regard, the book covers analytics over different levels of process abstractions, from process execution data and methods for linking and correlating process execution data, to inferring process models, querying process execution data and process models, and scalable process data analytics methods. In addition, it provides a review of commercial process analytics tools and their practical applications. The book is intended for a broad readership interested in business process management and process analytics. It provides researchers with an introduction to these fields by comprehensively classifying the current state of research, by describing in-depth techniques and methods, and by highlighting future research directions. Lecturers will find a wealth of material to choose from for a variety of courses, ranging from undergraduate courses in business process management to graduate courses in business process analytics. Lastly, it offers professionals a reference guide to the state of the art in commercial tools and techniques, complemented by many real-world use

case scenarios.

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 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.

Distributed applications are difficult to write as programmers need to adhere to specific distributed systems programming conventions and frameworks, which makes distributed 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 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 autonomic development. This book is of particular interest to researchers and students of distributed systems, autonomic, domain-specific aspect languages and aspect-orientation.