

Spring Boot Reference Documentation



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version 3.2.3

This document is also available as a [single HTML page](#) and as a [PDF](#).

The reference documentation consists of the following sections:

Legal	Legal information.
Getting Help	Resources for getting help.
Documentation Overview	About the Documentation, First Steps, and more.
Getting Started	Introducing Spring Boot, System Requirements, Servlet Containers, Installing Spring Boot, and Developing Your First Spring Boot Application
Upgrading Spring Boot Applications	Upgrading from 1.x, Upgrading to a new feature release, and Upgrading the Spring Boot CLI.
Using Spring Boot	Build Systems, Structuring Your Code, Configuration, Spring Beans and Dependency Injection, DevTools, and more.
Core Features	Profiles, Logging, Internationalization, Task Execution and Scheduling, Testing, and more.
Web	Servlet Web, Reactive Web, Embedded Container Support, Graceful Shutdown, and more.
Data	SQL and NoSQL data access.
IO	Caching, Quartz Scheduler, REST clients, Sending email, Spring Web Services, and more.
Messaging	JMS, AMQP, Apache Kafka, RSocket, WebSocket, and Spring Integration.
Container Images	Efficient container images and building container images with Dockerfiles and Cloud Native Buildpacks.
Production-ready Features	Monitoring, Metrics, Auditing, and more.
Deploying Spring Boot Applications	Deploying to the Cloud, and installing as a Unix application.
GraalVM Native Image Support	Create a native executable from your application using GraalVM.
Spring Boot CLI	Installing the CLI, Using the CLI, Configuring the CLI, and more.
Build Tool Plugins	Maven Plugin, Gradle Plugin, Antlib, and more.
"How-to" Guides	Application Development, Configuration, Embedded Servers, Data Access, and many more.

The reference documentation has the following appendices:

Application Properties	Common application properties that you can use to configure your application.
Configuration Metadata	Metadata that you can use to describe configuration properties.
Auto-configuration Classes	Auto-configuration classes provided by Spring Boot.
Test Auto-configuration Annotations	Test auto-configuration annotations that you can use to test slices of your application.
Executable Jars	Spring Boot's executable jars, their launchers, and their format.
Dependency Versions	Details of the dependencies that are managed by Spring Boot.

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House Document No. 83 ,1953 108-2: House Document No. 108-154, Statement of Disbursements, Part 2 of 2, October 1, 2003 to December 31, 2003 ,2004 House Document ,1999 108-2: Statement of Disbursements of The House, Etc., House Document No. 108-179, January 1, 2004 to March 31, 2004, Part 1 of 2, (*Star Print). ,2004 House Document: No. 121 , Mastering Spring Cloud Piotr Mińkowski,2018-04-26 Learn how to build test secure deploy and efficiently consume services across distributed systems Key Features Explore the wealth of options provided by Spring Cloud for wiring service dependencies in microservice systems Create microservices utilizing Spring Cloud s Netflix OSS Architect your cloud native data using Spring Cloud Book Description Developing deploying and operating cloud applications should be as easy as local applications This should be the governing principle behind any cloud platform library or tool Spring Cloud an open source library makes it easy to develop JVM applications for the cloud In this book you will be introduced to Spring Cloud and will master its features from the application developer s point of view This book begins by introducing you to microservices for Spring and the available feature set in Spring Cloud You will learn to configure the Spring Cloud server and run the Eureka server to enable service registration and discovery Then you will learn about techniques related to load balancing and circuit breaking and utilize all features of the Feign client The book now delves into advanced topics where you will learn to implement distributed tracing solutions for Spring Cloud and build message driven microservice architectures Before running an application on Docker container s you will master testing and securing techniques with Spring Cloud What you will learn Abstract Spring Cloud s feature set Create microservices utilizing Spring Cloud s Netflix OSS Create synchronous API microservices based on a message driven architecture Explore advanced topics such as distributed tracing security and contract testing Manage and deploy applications on the production environment Who this book is for This book appeals to developers keen to take advantage of Spring cloud an open source library which helps developers quickly build distributed systems Knowledge of Java and Spring Framework will be helpful but no prior exposure to Spring Cloud is required *Spring Data* Mark Pollack,Oliver Gierke,Thomas Risberg,Jon Brisbin,Michael Hunger,2012-10-12 You can choose several data access frameworks when building Java enterprise applications that work with relational databases But what about big data This hands on introduction shows you how Spring Data makes it relatively easy to build applications across a wide range of new data access technologies such as NoSQL and Hadoop Through several sample projects you ll learn how Spring Data provides a consistent programming model that retains NoSQL specific features and capabilities and helps you develop Hadoop applications across a wide range of use cases such as data analysis event stream processing and workflow You ll also discover the features Spring Data adds to Spring s existing JPA and JDBC support for writing RDBMS based data access layers Learn about Spring s template helper classes to simplify the use of database specific functionality Explore Spring Data s repository abstraction and advanced query functionality Use

Spring Data with Redis key value store HBase column family MongoDB document database and Neo4j graph database Discover the GemFire distributed data grid solution Export Spring Data JPA managed entities to the Web as RESTful web services Simplify the development of HBase applications using a lightweight object mapping framework Build example big data pipelines with Spring Batch and Spring Integration

Spring Boot 2.0 Cookbook Alex Antonov, 2018-02-26 Take your application development skills to the next level by implementing Spring Boot features effectively Key Features This collection of effective recipes serves as guidelines for Spring Boot application development Get up to date with features of the latest version of Spring Boot 2 0 Tips and tricks to improve your efficiency through the stages of software development Book Description The Spring framework provides great flexibility for Java development which also results in tedious configuration work Spring Boot addresses the configuration difficulties of Spring and makes it easy to create standalone production grade Spring based applications This practical guide makes the existing development process more efficient Spring Boot Cookbook 2 0 Second Edition smartly combines all the skills and expertise to efficiently develop test deploy and monitor applications using Spring Boot on premise and in the cloud We start with an overview of the important Spring Boot features you will learn to create a web application for a RESTful service Learn to fine tune the behavior of a web application by learning about custom routes and asset paths and how to modify routing patterns Address the requirements of a complex enterprise application and cover the creation of custom Spring Boot starters This book also includes examples of the new and improved facilities available to create various kinds of tests introduced in Spring Boot 1 4 and 2 0 and gain insights into Spring Boot DevTools Explore the basics of Spring Boot Cloud modules and various Cloud starters to make applications in Cloud Native and take advantage of Service Discovery and Circuit Breakers What you will learn Get to know Spring Boot Starters and create custom auto configurations Work with custom annotations that enable bean activation Use DevTools to easily develop and debug applications Learn the effective testing techniques by integrating Cucumber and Spock Observe an eternal application configuration using Consul Move your existing Spring Boot applications to the cloud Use Hashicorp Consul and Netflix Eureka for dynamic Service Discovery Understand the various mechanisms that Spring Boot provides to examine an application s health Who this book is for This book is for Java Developers who have good knowledge and understanding of Spring and Java application development

United States Congressional Serial Set, Serial No. 14957, House Document No. 19, Statement of Disbursements of House, Jan. 1-March 31, 2005, Pt. 1 Etats-Unis. House of representatives, **Document** Boston (Mass.), 1881

Spring Security Badr Nasslahsen, 2024-06-28 Leverage the power of Spring Security 6 to protect your modern Java applications from hackers Key Features Architect solutions that leverage Spring Security while remaining loosely coupled Implement authentication and authorization with SAML2 OAuth 2 hashing and encryption algorithms Integrate Spring Security with technologies such as microservices Kubernetes the cloud and GraalVM native images Purchase of the print or Kindle book includes a free PDF eBook Book Description With experienced hackers constantly

targeting apps properly securing them becomes challenging when you integrate this factor with legacy code new technologies and other frameworks Written by a Lead Cloud and Security Architect as well as CISSP this book helps you easily secure your Java apps with Spring Security a trusted and highly customizable authentication and access control framework The book shows you how to implement different authentication mechanisms and properly restrict access to your app You ll learn to integrate Spring Security with popular web frameworks like Thymeleaf and Microservice and Cloud services like Zookeeper and Eureka along with architecting solutions that leverage its full power while staying loosely coupled You ll also see how Spring Security defends against session fixation moves into concurrency control and how you can use session management for administrative functions This fourth edition aligns with Java 17 21 and Spring Security 6 covering advanced security scenarios for RESTful web services and microservices This ensures you fully understand the issues surrounding stateless authentication and discover a concise approach to solving those issues By the end of this book you ll be able to integrate Spring Security 6 with GraalVM native images seamlessly from start to finish What you will learn Understand common security vulnerabilities and how to resolve them Implement authentication and authorization and learn how to map users to roles Integrate Spring Security with LDAP Kerberos SAML 2 OpenID and OAuth Get to grips with the security challenges of RESTful web services and microservices Configure Spring Security to use Spring Data for authentication Integrate Spring Security with Spring Boot Spring Data and web applications Protect against common vulnerabilities like XSS CSRF and Clickjacking Who this book is for If you re a Java web developer or an architect with fundamental knowledge of Java 17 21 web services and the Spring Framework this book is for you No previous experience with Spring Security is needed to get started with this book *Total Productive Maintenance* Tina Agustady,Elizabeth A. Cudney,2023-12-19 This new edition emphasizes new techniques and strategies to Total Productive Maintenance TPM through the use of innovation and management after the pandemic to show effective communication and implementation of TPM techniques Total Productive Maintenance Strategies and Implementation Guide Second Edition presents step by step approaches to TPM integration with a clear direction from project infancy to completion It discusses innovation and management through the use of TPM and offers empowerment and encouragement to associates so they feel more comfortable using TPM in everyday settings The book is completely updated specifically with new case studies of implementing TPM after the pandemic cultural change and what that entails The book is written for manufacturing engineers reliability engineers industrial engineers operations managers factory managers project managers supply chain managers logistics and can also be used as additional reading in the classroom Pro Spring Clarence Ho,Rob Harrop,Chris Schaefer,2014-09-16 Pro Spring updates the perennial bestseller with the latest that the Spring Framework 4 has to offer Now in its fourth edition this popular book is by far the most comprehensive and definitive treatment of Spring available With Pro Spring you ll learn Spring basics and core topics and share the authors insights and real world experiences with

remoting Hibernate and EJB Beyond the basics you ll learn how to leverage the Spring Framework to build the various tiers or parts of an enterprise Java application transactions web and presentation tiers deployment and much more A full sample application allows you to apply many of the technologies and techniques covered in this book and see how they work together The agile lightweight open source Spring Framework continues to be the de facto leading enterprise Java application development framework for today s Java programmers and developers It works with other leading open source agile and lightweight Java technologies such as Hibernate Groovy MyBatis and more Spring now works with Java EE and JPA 2 as well After reading this definitive book you ll be armed with the power of Spring to build complex Spring applications top to bottom

Pro Spring Rob Harrop, Jan Machacek, 2006-11-22 Spring the open source Java based framework allows you to build lighter better performing applications Written by Spring insiders Rob Harrop and Jan Machacek *Pro Spring* is the only book endorsed by Rod Johnson founder of the Spring Framework At over 800 pages this is by far the most comprehensive book available and thoroughly explores the power of Spring You ll learn Spring basics and core topics as well as share the authors insights and real world experience with remoting mail integration hibernate and EJB From the foreword Rob s enthusiasm for Spring and technology in general is infectious He has a wide range of industry experience and a refreshingly practical common sense approach to applying it All those qualities come out in this book It s evident on nearly every page that it reflects in depth experience with Spring and J2EE as a whole Rob is not only an author and open source developer he is an application developer like his readers I firmly believe that the best writing on software development comes out of experience in the trenches so this is my kind of book If you re new to Spring this book will help you understand its core concepts and the background in areas such as transaction management and O R mapping that underpins them If you re already using Spring you will learn about features you haven t yet seen and hopefully gain a deeper understanding of those features youre already using Rod Johnson Founder of the Spring Framework

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The Southeastern Librarian, 1983

Building a Province David E. Smith, 1992

New Pencil Points, 1929

Annual Department of Defense Bibliography of Logistics Studies and Related Documents United States. Defense Logistics Studies Information Exchange, 1975

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