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C58 - MANNING WILCOX

Over 100 practical recipes to make Apache Solr faster, more reliable and return better results.

Filled with practical, step-by-step instructions and clear explanations for the most important and useful tasks. This book is written in a friendly, practical manner with recipes covering important indexing techniques and methods using Apache Solr.This book is for developers who want to dive deeper into Solr. Regardless of whether you are just starting with Solr or have already built your first collection by copying and modifying examples, this book will take you through the complicated steps of indexing your data with Solr.

"This book discusses the exponential growth of information size and the innovative methods for data capture, storage, sharing, and analysis for big data"--Provided by publisher.

This book is for intermediate Solr Developers who are willing to learn and implement Pro-level practices, techniques, and solutions. This edition will specifically appeal to developers who wish to quickly get to grips with the changes and new features of Apache Solr 5.

This book is a step-by-step tutorial that will enable you to leverage the flexible search functionality of Apache Solr together with the Big Data power of Apache Hadoop.Scaling Big Data with Hadoop and Solr provides guidance to developers who wish to build high-speed enterprise search platforms using Hadoop and Solr. This book is primarily aimed at Java programmers who wish to extend the Hadoop platform to make it run as an enterprise search without any prior knowledge of Apache Hadoop and Solr.

This book is an easy-to-follow guide, full of hands-on, real-world examples. Each topic is explained and demonstrated in a specific and user-friendly flow, from search optimization using Solr to Deployment of Zookeeper applications. This book is ideal for Apache Solr developers and want to learn different techniques to optimize Solr performance with utmost efficiency, along with effectively troubleshooting the problems that usually occur while trying to boost performance. Familiarity with search servers and database querying is expected.

Automation through Chef Opscode provides an in-depth understanding of Chef, which is written in Ruby and Erlang for configuration management, cloud infrastructure management, system administration, and network management. Targeted at administrators, consultants, and architect, the book guides them through the advanced features of the tool which are necessary for infrastructure automation, devops automation, and reporting. The book presumes knowledge of Ruby and Erlang which are used as reference languages for creating recipes and cookbooks and as a refresher on them to help the reader get on speed with the flow of book. The book provides step by step instructions on installation and configuration of Chef, usage scenarios of Chef, in infrastructure automation by providing common scenarios like virtual machine provisioning, OS configuration for Windows, Linux, and Unix, provisioning and configuration of web servers like Apache along with popular databases like MySQL. It further elaborates on the creation of recipes, and cookbooks, which help in deployment of servers and applications to any physical, virtual, or cloud location, no matter the size of the infrastructure. The books covers advanced features like LWRPs and Knife and also contains several illustrative sample cookbooks on MySQL, Apache, and CouchDB deployment using a step by step approach.

Implement JPA repositories and harness the performance of Redis in your applications.

Enhance your Solr indexing experience with advanced techniques and the built-in functionalities available in Apache Solr About This Book Learn about distributed indexing and real-time optimization to change index data on fly Index data from various sources and web crawlers using built-in analyzers and tokenizers This step-by-step guide is packed with real-life examples on indexing data Who This Book Is For This book is for developers who want to increase their experience of indexing in Solr by learning about the various index handlers, analyzers, and methods available in Solr. Beginner level Solr development skills are expected. What You Will Learn Get to know the basic features of Solr indexing and the analyzers/tokenizers available Index XML/JSON data in Solr using the HTTP Post tool and CURL command Work with Data Import Handler to index data from a database Use Apache Tika with Solr to index word documents, PDFs, and much more Utilize Apache Nutch and Solr integration to index crawled data from web pages Update indexes in real-time data feeds Discover techniques to index multi-language and distributed data in Solr Combine the various indexing techniques into a real-life working example of an online shopping web application In Detail Apache Solr is a widely used, open source enterprise search server that delivers powerful indexing and searching features. These features help fetch relevant information from various sources and documentation. Solr also combines with other open source tools such as Apache Tika and Apache Nutch to provide more powerful features. This fast-paced guide starts by helping you set up Solr and get acquainted with its basic building blocks, to give you a better understanding of Solr indexing. You'll quickly move on to indexing text and boosting the indexing time. Next, you'll focus on basic indexing techniques, various index handlers designed to modify documents, and indexing a structured data source through Data Import Handler. Moving

on, you will learn techniques to perform real-time indexing and atomic updates, as well as more advanced indexing techniques such as de-duplication. Later on, we'll help you set up a cluster of Solr servers that combine fault tolerance and high availability. You will also gain insights into working scenarios of different aspects of Solr and how to use Solr with e-commerce data. By the end of the book, you will be competent and confident working with indexing and will have a good knowledge base to efficiently program elements. Style and approach This fast-paced guide is packed with examples that are written in an easy-to-follow style, and are accompanied by detailed explanation. Working examples are included to help you get better results for your applications.

Accelerate your enterprise search engine and bring relevancy in your search analytics Key Features A practical guide in building expertise with Indexing, Faceting, Clustering and Pagination Master the management and administration of Enterprise Search Applications and services seamlessly Handle multiple data inputs such as JSON, xml, pdf, doc, xls,ppt, csv and much more. Book Description Apache Solr is the only standalone enterprise search server with a REST-like application interface. providing highly scalable, distributed search and index replication for many of the world's largest internet sites. To begin with, you would be introduced to how you perform full text search, multiple filter search, perform dynamic clustering and so on helping you to brush up the basics of Apache Solr. You will also explore the new features and advanced options released in Apache Solr 7.x which will get you numerous performance aspects and making data investigation simpler, easier and powerful. You will learn to build complex queries, extensive filters and how are they compiled in your system to bring relevance in your search tools. You will learn to carry out Solr scoring, elements affecting the document score and how you can optimize or tune the score for the application at hand. You will learn to extract features of documents, writing complex queries in re-ranking the documents. You will also learn advanced options helping you to know what content is indexed and how the extracted content is indexed. Throughout the book, you would go through complex problems with solutions along with varied approaches to tackle your business needs. By the end of this book, you will gain advanced proficiency to build out-of-box smart search solutions for your enterprise demands. What you will learn Design schema using schema API to access data in the database Advance querying

and fine-tuning techniques for better performance Get to grips with indexing using Client API Set up a fault tolerant and highly available server with newer distributed capabilities, SolrCloud Explore Apache Tika to upload data with Solr Cell Understand different data operations that can be done while indexing Master advanced querying through Velocity Search UI, faceting and Query Re-ranking, pagination and spatial search Learn to use JavaScript, Python, SolrJ and Ruby for interacting with Solr Who this book is for The book would rightly appeal to developers, software engineers, data engineers and database architects who are building or seeking to build enterprise-wide effective search engines for business intelligence. Prior experience of Apache Solr or Java programming is must to take the best of this book.

If you are a Java developer or administrator with a technical background and want to install and configure Liferay Portal as an enterprise intranet, this is the book for you. In short, reusable recipes help you realize business goals as working features in Liferay. This book will also give you useful hints on how to easily improve the default functionality of the system and its performance.

Build an enterprise search engine using Apache Solr: index and search documents; ingest data from varied sources; apply various text processing techniques; utilize different search capabilities; and customize Solr to retrieve the desired results. Apache Solr: A Practical Approach to Enterprise Search explains each essential concept-backed by practical and industry examples--to help you attain expert-level knowledge. The book, which assumes a basic knowledge of Java, starts with an introduction to Solr, followed by steps to setting it up, indexing your first set of documents, and searching them. It then introduces you to information retrieval and its implementation in Apache Solr; this will help you understand your search problem, decide the approach to build an effective solution, and use various metrics to evaluate the results. The book next covers the schema design and techniques to build a text analysis chain for cleansing, normalizing and enriching your documents and addressing different types of search queries. It describes various popular matching techniques which are generally applied to improve the precision and recall of searches. You will learn the end-to-end process of data ingestion from varied sources, metadata extraction, pre-processing and transformation of content, various search components, query parsers and other advanced search capabilities. After covering out-of-the-box fea-

tures, Solr expert Dikshant Shahi dives into ways you can customize Solr for your business and its specific requirements, along with ways to plug in your own components. Most important, you will learn about implementations for Solr scoring, factors affecting the document score, and tuning the score for the application at hand. The book explains why textual scoring is not sufficient for practical ranking of documents and ways to integrate real-world factors for contributing to the document ranking. You'll see how to influence user experience by providing suggestions and recommendations. You'll also see integration of Solr with important related technologies such as OpenNLP and Tika. Additionally, you will learn about scaling Solr using SolrCloud. This book concludes with coverage of semantic search capabilities, which is crucial for taking the search experience to the next level. By the end of Apache Solr, you will be proficient in designing and developing your search engine.

This book is for developers who already know how to use Solr and are looking at procuring advanced strategies for improving their search using Solr. This book is also for people who work with analytics to generate graphs and reports using Solr. Moreover, if you are a search architect who is looking forward to scale your search using Solr, this is a must have book for you. It would be helpful if you are familiar with the Java programming language.

Solr (pronounced "solar") is an open source enterprise search platform, written in Java, from the Apache Lucene project. Its major features include full-text search, hit highlighting, faceted search, real-time indexing, dynamic clustering, database integration, NoSQL features and rich document (e.g., Word, PDF) handling. Providing distributed search and index replication, Solr is designed for scalability and fault tolerance. Solr is the second-most popular enterprise search engine after Elasticsearch. Solr runs as a standalone full-text search server. It uses the Lucene Java search library at its core for full-text indexing and search, and has REST-like HTTP/XML and JSON APIs that make it usable from most popular programming languages. Solr's external configuration allows it to be tailored to many types of application without Java coding, and it has a plugin architecture to support more advanced customization.

This book covers three major parts of Big Data: concepts, theories and applications. Written by world-renowned leaders in Big Data, this book explores the problems, possible solutions and directions

for Big Data in research and practice. It also focuses on high level concepts such as definitions of Big Data from different angles; surveys in research and applications; and existing tools, mechanisms, and systems in practice. Each chapter is independent from the other chapters, allowing users to read any chapter directly. After examining the practical side of Big Data, this book presents theoretical perspectives. The theoretical research ranges from Big Data representation, modeling and topology to distribution and dimension reducing. Chapters also investigate the many disciplines that involve Big Data, such as statistics, data mining, machine learning, networking, algorithms, security and differential geometry. The last section of this book introduces Big Data applications from different communities, such as business, engineering and science. Big Data Concepts, Theories and Applications is designed as a reference for researchers and advanced level students in computer science, electrical engineering and mathematics. Practitioners who focus on information systems, big data, data mining, business analysis and other related fields will also find this material valuable.

This book is a step-by-step guide for readers who would like to learn how to build complete enterprise search solutions, with ample real-world examples and case studies. If you are a developer, designer, or architect who would like to build enterprise search solutions for your customers or organization, but have no prior knowledge of Apache Solr/Lucene technologies, this is the book for you.

Good solid advice and great strategies in preparing for and passing the Apache Solr exam, getting interviews and landing the Apache Solr job. If you have prepared for the Apache Solr exam - now is the moment to get this book and prepare for passing the exam and how to find and land a Apache Solr job, There is absolutely nothing that isn't thoroughly covered in the book. It is straightforward, and does an excellent job of explaining some complex topics. There is no reason to invest in any other materials to find and land a Apache Solr certified job. The plan is pretty simple, buy this book, read it, do the practice questions, get the job. This book figures out ways to boil down critical exam and job landing concepts into real world applications and scenarios. Which makes this book user-friendly, interactive, and valuable as a resource long after students pass the exam. People who teach Apache Solr classes for a living or for their companies understand

the true value of this book. You certainly will too. To Prepare for the exam this book tells you: - What you need to know about the Apache Solr Certification and exam - Preparation Tips for passing the Apache Solr Certification Exam - Taking tests The book contains several suggestions on how preparing yourself for an interview. This is an aspect that many people underestimate, whilst having a well-written CV, a personal blog, and possibly a number of past projects is definitively important - there is much more to prepare for. It covers non-technical aspects (how to find a job, resume, behavioral etc.). A 'Must-study' before taking a Tech Interview. To Land the Job, it gives you the hands-on and how-to's insight on - Typical Apache Solr Careers - Finding Opportunities - the best places to find them - Writing Unbeatable Resumes and Cover Letters - Acing the Interview - What to Expect From Recruiters - How employers hunt for Job-hunters.... and More This book offers excellent, insightful advice for everyone from entry-level to senior professionals. None of the other such career guides compare with this one. It stands out because it: - Explains how the people doing the hiring think, so that you can win them over on paper and then in your interview - Is filled with useful work-sheets - Explains every step of the job-hunting process - from little-known ways for finding openings to getting ahead on the job This book covers everything. Whether you are trying to get your first Apache Solr Job or move up in the system, you will be glad you got this book. For any IT Professional who aspires to land a Apache Solr certified job at top tech companies, the key skills that are an absolute must have are having a firm grasp on Apache Solr This book is not only a compendium of most important topics for your Apache Solr exam and how to pass it, it also gives you an interviewer's perspective and it covers aspects like soft skills that most IT Professionals ignore or are unaware of, and this book certainly helps patch them. When should you get this book? Whether you are searching for a job or not, the answer is now.

With the intense interest in big data and the growing complexity of Apache Solr applications, application developers, business professionals, and end-users alike are clamoring for a more in-depth look at Apache Lucene and Solr. This comprehensive one-stop guide helps you gain a thorough understanding of Lucene's underlying architecture so you can design, implement, and tune successful Solr applications. High-speed inverted indexes are inher-

ently difficult to develop. That's why more and more enterprises are implementing the Solr search server and Lucene Core search technology for complex text retrieval, as a NoSQL system for big data, or as a replacement for relational database systems that require horizontal scalability. With this guide's complete coverage of both Lucene and Solr, you'll get a unified view of their value and applicability to your big data projects. Learn how Lucene works from the inside out Get examples for using both Lucene and Solr APIs Configure Solr for optimal production use Learn how to use Solr with Hadoop

Summary Taming Text, winner of the 2013 Jolt Awards for Productivity, is a hands-on, example-driven guide to working with unstructured text in the context of real-world applications. This book explores how to automatically organize text using approaches such as full-text search, proper name recognition, clustering, tagging, information extraction, and summarization. The book guides you through examples illustrating each of these topics, as well as the foundations upon which they are built. About this Book There is so much text in our lives, we are practically drowningin it. Fortunately, there are innovative tools and techniquesfor managing unstructured information that can throw thesmart developer a much-needed lifeline. You'll find them in thisbook. Taming Text is a practical, example-driven guide to working withtext in real applications. This book introduces you to useful techniques like full-text search, proper name recognition,clustering, tagging, information extraction, and summarization.You'll explore real use cases as you systematically absorb thefoundations upon which they are built.Written in a clear and concise style, this book avoids jargon, explainingthe subject in terms you can understand without a backgroundin statistics or natural language processing. Examples arein Java, but the concepts can be applied in any language. Written for Java developers, the book requires no prior knowledge of GWT. 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. Winner of 2013 Jolt Awards: The Best Books—one of five notable books every serious programmer should read. What's Inside When to use text-taming techniques Important open-source libraries like Solr and Mahout How to build text-processing applications About the Authors Grant Ingersoll is an engineer, speaker, and trainer, a Lucenecommitter, and a cofounder of the Mahout machine-learning project. Thomas Morton is the

primary developer of OpenNLP and Maximum Entropy. Drew Farris is a technology consultant, software developer, and contributor to Mahout,Lucene, and Solr. "Takes the mystery out of verycomplex processes."—From the Foreword by Liz Liddy, Dean, iSchool, Syracuse University Table of Contents Getting started taming text Foundations of taming text Searching Fuzzy string matching Identifying people, places, and things Clustering text Classification, categorization, and tagging Building an example question answering system Untamed text: exploring the next frontier

This book is a best fit for backend developers with a basic knowledge of Drupal's APIs and some experience using the command line. Perhaps you already worked on one or two Drupal projects, but have never dived deep into Drush's toolset. In any case, this book will give you a lot of advice by covering real-world challenges in Drupal projects that can be solved using Drush.

Summary Solr in Action is a comprehensive guide to implementing scalable search using Apache Solr. This clearly written book walks you through well-documented examples ranging from basic keyword searching to scaling a system for billions of documents and queries. It will give you a deep understanding of how to implement core Solr capabilities. About the Book Whether you're handling big (or small) data, managing documents, or building a website, it is important to be able to quickly search through your content and discover meaning in it. Apache Solr is your tool: a ready-to-deploy, Lucene-based, open source, full-text search engine. Solr can scale across many servers to enable real-time queries and data analytics across billions of documents. Solr in Action teaches you to implement scalable search using Apache Solr. This easy-to-read guide balances conceptual discussions with practical examples to show you how to implement all of Solr's core capabilities. You'll master topics like text analysis, faceted search, hit highlighting, result grouping, query suggestions, multilingual search, advanced geospatial and data operations, and relevancy tuning. This book assumes basic knowledge of Java and standard database technology. No prior knowledge of Solr or Lucene is required. Purchase of the print book includes a free eBook in PDF, Kindle, and ePub formats from Manning Publications. What's Inside How to scale Solr for big data Rich real-world examples Solr as a NoSQL data store Advanced multilingual, data, and relevancy tricks Coverage of versions through Solr 4.7 About the Authors Trey Grainger is a director of engineering at CareerBuilder. Timo-

thy Potter is a senior member of the engineering team at Lucid-Works. The authors work on the scalability and reliability of Solr, as well as on recommendation engine and big data analytics technologies. Table of Contents PART 1 MEET SOLR Introduction to Solr Getting to know Solr Key Solr concepts Configuring Solr Indexing Text analysis PART 2 CORE SOLR CAPABILITIES Performing queries and handling results Faceted search Hit highlighting Query suggestions Result grouping/field collapsing Taking Solr to production PART 3 TAKING SOLR TO THE NEXT LEVEL SolrCloud Multilingual search Complex query operations Mastering relevancy

This book is aimed at developers, designers, and architects who would like to build big data enterprise search solutions for their customers or organizations. No prior knowledge of Apache Hadoop and Apache Solr/Lucene technologies is required.

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

The one-stop-source powering Apache Solr success, jam-packed with ready to use insights for results, loaded with all the data you need to decide how to gain and move ahead. Based on extensive research, this lays out the thinking of the most successful Apache Solr knowledge experts, those who are adept at continually innovating and seeing opportunities. This is the first place to go for Apache Solr innovation - INCLUDED are numerous real-world Apache Solr blueprints, presentations and templates ready for you to access and use. Also, if you are looking for answers to one or more of these questions then THIS is the title for you: Reactive Apache Solr? What are the main differences between Elastic-Search, Apache Solr and SolrCloud? How can I install apache solr? Why does eBay develop Apache Solr? Why doesn't eBay use Solr? What is better, Apache Solr or HBase? Is it possible to replace apache solr in broadleafcommerce with ElasticSearch? Can Apache Solr execute complex aggregation queries? How can I optimize Apache Solr boost factors using genetic algorithms? Is there any Apache (solr, hadoop) coaching class in Bangalore? Apache Solr: Synonyms.txt - where can I download an example for English synonyms? Symfony2 + Apache Solr: does anybody have experience with that? How can I find last commit from Apache Solr? Can I use Apache Solr in nginx web server or must it be used in Apache server? How can I transfer data from Apache Nutch to Apache Solr? Should Apache Solr be used as read-only database? Where is the best place to source for Apache SOLR engineers? How do I build an internet search engine with Apache Solr and Nutch? Is apache solr the appropriate tool for a 500-5000 prod-

ucts containing ecommerce platform? Apache Solr: Solrcloud dih often die without any error messages? ...and much more..."

Solr (pronounced "solar") is an open source enterprise search platform, written in Java, from the Apache Lucene project. Its major features include full-text search, hit highlighting, faceted search, real-time indexing, dynamic clustering, database integration, NoSQL features and rich document (e.g., Word, PDF) handling. Providing distributed search and index replication, Solr is designed for scalability and fault tolerance. Solr is the second-most popular enterprise search engine after Elasticsearch. Solr runs as a standalone full-text search server. It uses the Lucene Java search library at its core for full-text indexing and search, and has REST--like HTTP/XML and JSON APIs that make it usable from most popular programming languages. Solr's external configuration allows it to be tailored to many types of application without Java coding, and it has a plugin architecture to support more advanced customization. This updated and expanded second edition of Book provides a user-friendly introduction to the subject, Taking a clear structural framework, it guides the reader through the subject's core elements. A flowing writing style combines with the use of il-

lustrations and diagrams throughout the text to ensure the reader understands even the most complex of concepts. This succinct and enlightening overview is a required reading for all those interested in the subject . We hope you find this book useful in shaping your future career & Business.
This book is for developers who want to learn how to get the most out of Solr in their applications, whether you are new to the field, have used Solr but don't know everything, or simply want a good reference. It would be helpful to have some familiarity with basic programming concepts, but no prior experience is required.
The Sakai Open Academic Environment (OAE) provides a unique collaboration system for university campuses: a social network that helps students discuss class materials, pursue research, communicate with faculty, and discover the risks and benefits of sharing personal information—all in a private, rather than public, forum. This example-driven guide will get you up to speed on various methods used to deploy, customize, and manage OAE, whether you're an IT specialist in an educational institution, or an academic or instructional technologist. Learn how to work with

OAE's source code to modify key areas such as profiles, courses, permissions, and content. You'll soon adapt this network to support the culture and needs of your campus. Create research projects and online companions for lecture courses Learn about the range of OAE's public and privacy settings Customize OAE's look and feel, including the welcome screen, drop-down menus, and sign-up pages Connect to a local LDAP to work with accounts and authentication Install widgets to extend and customize OAE's core functionality Integrate OAE with a web server and backend database Get a checklist for deploying your custom OAE to production

This book is full of step-by-step example-oriented tutorials which will show readers how to integrate Solr in PHP applications using the available libraries, and boost the inherent search facilities that Solr offers.If you are a developer who knows PHP and is interested in integrating search into your applications, this is the book for you. No advanced knowledge of Solr is required. Very basic knowledge of system commands and the command-line interface on both Linux and Windows is required. You should also be familiar with the concept of Web servers.