Elasticsearch Server - Third Edition

By Rafal Kuc, Marek Rogozinski

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Leverage Elasticsearch to create a robust, fast, and flexible search solution with ease

About This Book

- Boost the searching capabilities of your system through synonyms, multilingual data handling, nested objects and parent-child documents
- Deep dive into the world of data aggregation and data analysis with ElasticSearch
- Explore a wide range of ElasticSearch modules that define the behavior of a cluster

Who This Book Is For

If you are a competent developer and want to learn about the great and exciting world of ElasticSearch, then this book is for you. No prior knowledge of Java or Apache Lucene is needed.

What You Will Learn

- Configure, create, and retrieve data from your indices
- Use an ElasticSearch query DSL to create a wide range of queries
- Discover the highlighting and geographical search features offered by ElasticSearch
- Find out how to index data that is not flat or data that has a relationship
- Exploit a prospective search to search for queries not documents
- Use the aggregations framework to get more from your data and improve your client's search experience
- Monitor your cluster state and health using the ElasticSearch API as well as third-party monitoring solutions
- Discover how to properly set up ElasticSearch for various use cases

In Detail

ElasticSearch is a very fast and scalable open source search engine, designed with distribution and cloud in mind, complete with all the goodies that Apache Lucene has to offer. ElasticSearch's schema-free architecture allows developers to index and search unstructured content, making it perfectly suited for both small projects and large big data warehouses, even those with petabytes of unstructured data.

This book will guide you through the world of the most commonly used ElasticSearch server functionalities. You'll start off by getting an understanding of the basics of ElasticSearch and its data indexing functionality. Next, you will see the querying capabilities of ElasticSearch, followed by a through explanation of scoring and search relevance. After this, you will explore the aggregation and data analysis capabilities of ElasticSearch and will learn how cluster administration and scaling can be used to boost your application performance. You'll find out how to use the friendly REST APIs and how to tune ElasticSearch to make the most of it. By the end of this book, you will have be able to create amazing search solutions as per your project's specifications.

Style and approach

This step-by-step guide is full of screenshots and real-world examples to take you on a journey through the wonderful world of full text search provided by ElasticSearch.

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Editorial Review

About the Author

Rafal Kuc

Rafal Kuc is a software engineer, trainer, speaker and consultant. He is working as a consultant and software engineer at Sematext Group Inc. where he concentrates on open source technologies such as Apache Lucene, Solr, and Elasticsearch. He has more than 14 years of experience in various software domains?from banking software to e–commerce products. He is mainly focused on Java; however, he is open to every tool and programming language that might help him to achieve his goals easily and quickly. Rafal is also one of the founders of the solr.pl site, where he tries to share his knowledge and help people solve their Solr and Lucene problems. He is also a speaker at various conferences around the world such as Lucene Eurocon, Berlin Buzzwords, ApacheCon, Lucene/Solr Revolution, Velocity, and DevOps Days. Rafal began his journey with Lucene in 2002; however, it wasn't love at first sight. When he came back to Lucene in late 2003, he revised his thoughts about the framework and saw the potential in search technologies. Then Solr came and that was it. He started working with Elasticsearch in the middle of 2010. At present, Lucene, Solr, Elasticsearch, and information retrieval are his main areas of interest. Rafal is also the author of the Solr Cookbook series, ElasticSearch Server and its second edition, and the first and second editions of Mastering ElasticSearch, all published by Packt Publishing.

Marek Rogozinski

Marek Rogozinski is a software architect and consultant with more than 10 years of experience. His specialization concerns solutions based on open source search engines, such as Solr and Elasticsearch, and the software stack for big data analytics including Hadoop, Hbase, and Twitter Storm. He is also a cofounder of the solr.pl site, which publishes information and tutorials about Solr and Lucene libraries. He is the coauthor of ElasticSearch Server and its second edition, and the first and second editions of Mastering ElasticSearch, all published by Packt Publishing. He is currently the chief technology officer and lead architect at ZenCard, a company that processes and analyzes large quantities of payment transactions in real time, allowing automatic and anonymous identification of retail customers on all retailer channels (m-commerce/e-commerce/brick&mortar) and giving retailers a customer retention and loyalty tool.

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