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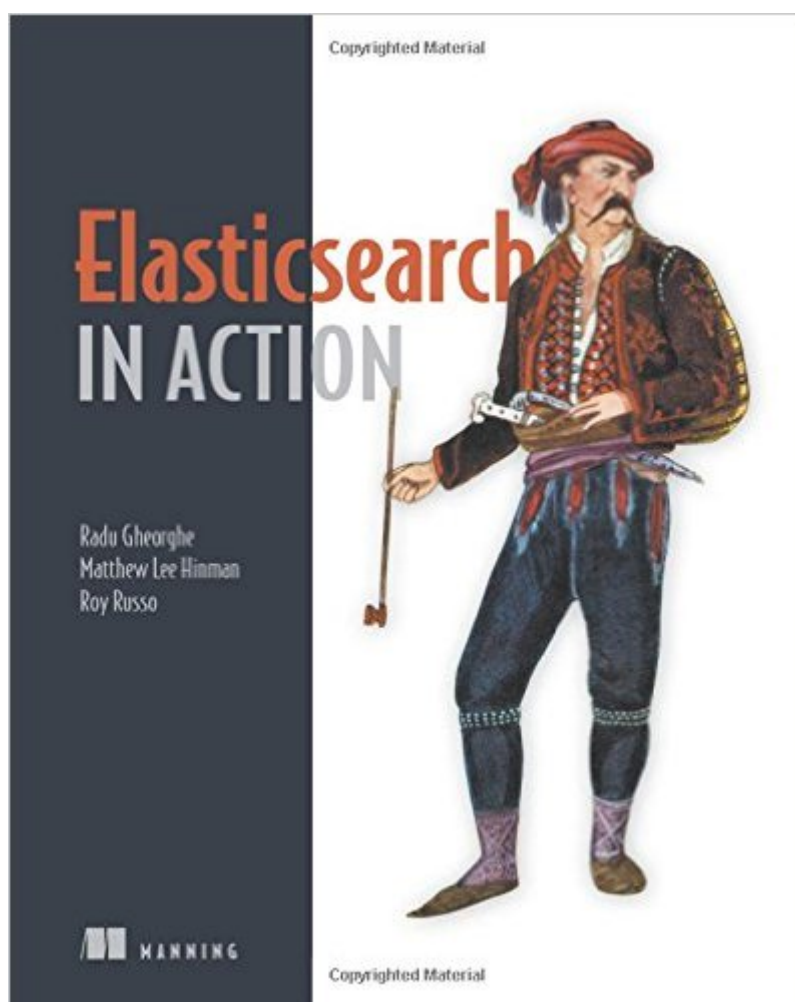
Elasticsearch In Action

Synopsis

Summary Elasticsearch in Action teaches you how to build scalable search applications using Elasticsearch. You'll ramp up fast, with an informative overview and an engaging introductory example. Within the first few chapters, you'll pick up the core concepts you need to implement basic searches and efficient indexing. With the fundamentals well in hand, you'll go on to gain an organized view of how to optimize your design. Perfect for developers and administrators building and managing search-oriented applications. Purchase of the print book includes a free eBook in PDF, Kindle, and ePub formats from Manning Publications. About the Technology Modern search seems like magicâ "you type a few words and the search engine appears to know what you want. With the Elasticsearch real-time search and analytics engine, you can give your users this magical experience without having to do complex low-level programming or understand advanced data science algorithms. You just install it, tweak it, and get on with your work. About the Book Elasticsearch in Action teaches you how to write applications that deliver professional quality search. As you read, you'll learn to add basic search features to any application, enhance search results with predictive analysis and relevancy ranking, and use saved data from prior searches to give users a custom experience. This practical book focuses on Elasticsearch's REST API via HTTP. Code snippets are written mostly in bash using cURL, so they're easily translatable to other languages. What's InsideWhat is a great search application?Building scalable search solutionsUsing Elasticsearch with any languageConfiguration and tuningAbout the ReaderFor developers and administrators building and managing search-oriented applications.About the AuthorsRadu Gheorghe is a search consultant and software engineer. Matthew Lee Hinman develops highly available, cloud-based systems. Roy Russo is a specialist in predictive analytics.Table of ContentsPART 1 CORE ELASTICSEARCH FUNCTIONALITYIntroducing ElasticsearchDiving into the functionalityIndexing, updating, and deleting dataSearching your dataAnalyzing your dataSearching with relevancyExploring your data with aggregationsRelations among documentsPART 2 ADVANCED ELASTICSEARCH FUNCTIONALITYScaling outImproving performanceAdministering your cluster

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Customer Reviews

Elasticsearch has been around for a while now, and it can be found in quite a lot of different websites nowadays. This book reviewed here aims to cover both the fundamentals of using elasticsearch, as well as the advanced usage, scaling and performance optimisation of elasticsearch in production.In order to do this, the book is mainly divided in two distinct parts named "Core functionality" and "Advanced Functionality", but there are also another six chapters at the end as appendices.So let's take things in order, as is also the recommended way of getting through the book, and start with the first part of the book. There are eight different chapters, covering all of the core functionality of elasticsearch. In these chapters the reader can find out about what kind of search problems can be solved, some typical use cases, understanding the meaning of documents, types, indices, shards and clusters. Following this, there is a thorough explanation about indexing, updating and deleting data. Another chapter is dedicated to searching the data with match and filter queries as well as using the best query for the specific job required. Analysing the data using analyzers, tokenizers and token filters with special sections about ngrams, edge ngrams, shingles and stemming, follows next. How scoring works and a description of the different scoring methods as well as boosting is described in the next chapter. The first part finishes off with two chapters about aggregations (metrics, multi-bucket and nesting aggregations) and the different ways to describe relationships (nested, parent-child etc) between documents.The second part of the book, as mentioned previously, is dedicated to the advanced usage, scaling and performance in production.

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