

The Ultimate Guide to MongoDB Development and Administration for NoSQL

MongoDB is a popular NoSQL database that is used by many large organizations, including Google, Facebook, and Our Book Library. It is known for its scalability, flexibility, and ease of use.



Learn MongoDB 4.x: A guide to understanding MongoDB development and administration for NoSQL developers by Doug Bierer

★★★★☆ 4.6 out of 5

Language : English
File size : 34064 KB
Text-to-Speech : Enabled
Screen Reader : Supported
Enhanced typesetting: Enabled
Print length : 610 pages



This guide will teach you everything you need to know about MongoDB development and administration, from the basics to advanced concepts. We will cover topics such as:

- MongoDB architecture and data model
- MongoDB CRUD operations
- MongoDB indexing and querying
- MongoDB replication and sharding

- MongoDB administration and maintenance

Whether you are a beginner or an experienced developer, this guide will help you to learn MongoDB and use it to build powerful and scalable applications.

MongoDB Architecture and Data Model

MongoDB is a document-oriented database. This means that data is stored in documents, which are similar to JSON objects. Documents can contain a variety of data types, including strings, numbers, arrays, and other documents.

MongoDB uses a flexible schema design. This means that you can add new fields to documents without having to modify the database schema. This makes it easy to adapt MongoDB to changing requirements.

MongoDB CRUD Operations

MongoDB supports the following CRUD operations:

- Create: Insert a new document into the database
- Read: Retrieve a document from the database
- Update: Modify a document in the database
- Delete: Remove a document from the database

CRUD operations can be performed using the MongoDB shell or a variety of programming languages.

MongoDB Indexing and Querying

Indexing is a technique that can be used to improve the performance of MongoDB queries. An index is a data structure that maps the values of a field to the documents that contain those values.

MongoDB supports a variety of index types, including:

- Single-field indexes
- Multi-field indexes
- Compound indexes
- Unique indexes

Queries can be used to retrieve documents from the database. MongoDB supports a variety of query operators, including:

- Equality operators (=, !=)
- Comparison operators (<, >, <=, >=)
- Logical operators (AND, OR, NOT)
- Regular expression operators

MongoDB Replication and Sharding

Replication is a technique that can be used to improve the availability and durability of MongoDB data. Replication involves creating multiple copies of the database and storing them on different servers.

Sharding is a technique that can be used to improve the scalability of MongoDB. Sharding involves splitting the database into multiple partitions and storing each partition on a different server.

MongoDB Administration and Maintenance

MongoDB administration and maintenance tasks include:

- Creating and managing databases
- Creating and managing users
- Backing up and restoring data
- Monitoring performance
- Troubleshooting problems

MongoDB provides a variety of tools and commands that can be used to perform these tasks.

MongoDB is a powerful and scalable NoSQL database that is used by many large organizations. This guide has provides you with a comprehensive overview of MongoDB development and administration. With this knowledge, you can start building powerful and scalable applications with MongoDB.



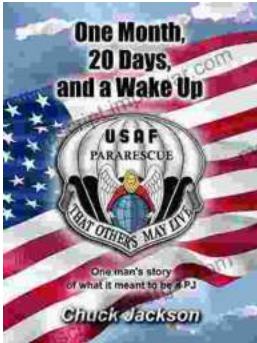
Learn MongoDB 4.x: A guide to understanding MongoDB development and administration for NoSQL developers by Doug Bierer

★★★★☆ 4.6 out of 5

Language : English
File size : 34064 KB
Text-to-Speech : Enabled
Screen Reader : Supported
Enhanced typesetting : Enabled
Print length : 610 pages

FREE

DOWNLOAD E-BOOK



One Man's Story of What It Meant to be Pj

In the tapestry of life, where triumphs and tribulations intertwine, the human spirit often emerges as a beacon of resilience and determination. The book,...



Pattern Theory in Video Keno: Unveiling the Art of Pattern Recognition for Winning Strategies

Embark on an enlightening journey into the enigmatic world of video keno, where strategic prowess meets the power of pattern recognition. Discover how the groundbreaking...