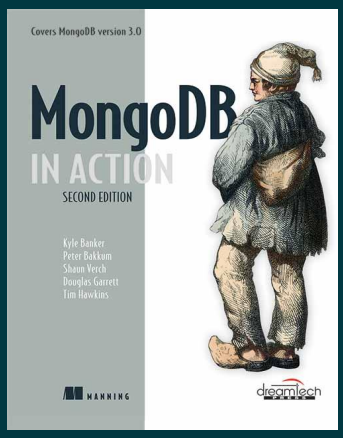
WILEY



MongoDB in Action, 2ed: Covers MongoDB Version 3.0

By Kyle Banker, Peter Bakkum, Shaun Verch, Douglas Garrett, Tim Hawkins

Paperback 9789351199359 **₹999.00**

Pages: 480

Description

MongoDB in Action, Second Edition is a completely revised and updated version. It introduces MongoDB 3.0 and the document-oriented database model. This perfectly paced book gives you both the big picture you'll need as a developer and enough low-level detail to satisfy system engineers. Lots of examples will help you develop confidence in the crucial area of data modeling. You'll also love the deep explanations of each feature, including replication, auto-sharding and deployment.

About the Author

Kyle Banker, Peter Bakkum, Shaun Verch, Douglas Garrett, Tim Hawkins

After working at MongoDB

Table of Contents

Part 1 Getting Started

1. A database for the modern web

1.1. Built for the internet

1.2. MongoDB's key features

1.3. MongoDB's core server and tools

1.4. Why MongoDB?

1.5. Tips and limitations

1.6. History of MongoDB

1.7. Additional resources

1.8. Summary

2. MongoDB through the JavaScript shell

2.1. Diving into the MongoDB shell

2.2. Creating and querying with indexes

2.3. Basic administration

2.4. Getting help

2.5. Summary

3. Writing programs using MongoDB

3.1. MongoDB through the Ruby lens

3.2. How the drivers work

3.3. Building a simple application

3.4. Summary

Part 2: Application development in MongoDB

4. Document-oriented data

4.1. Principles of schema design

4.2. Designing an e-commerce data model

4.3. Nuts and bolts: On databases, collections, and documents

4.4. Summary

5. Constructing queries

5.1. E-commerce queries

5.2. MongoDB's query language

5.3. Summary

6. Aggregation

6.1. Aggregation framework overview

6.2. E-commerce aggregation example

6.3. Aggregation pipeline operators

6.4. Reshaping documents

6.5. Understanding aggregation pipeline performance

6.6. Other aggregation capabilities

6.7. Summary

7. Updates, atomic operations, and deletes

7.1. A brief tour of document updates

7.2. E-commerce updates

7.3. Atomic document processing

7.4. Nuts and bolts: MongoDB updates and deletes

7.5. Reviewing update operators

7.6. Summary

Part 3: MongoDB mastery

8. Indexing and query optimization

8.1. Indexing theory

8.2. Indexing in practice

8.3. Query optimization

8.4. Summary

9. Text search

9.1. Text searches—not just pattern matching

9.2. Manning book catalog data download

9.3. Defining text search indexes

9.4. Basic text search

9.5. Aggregation framework text search

9.6. Text search languages

9.7. Summary

10. WiredTiger and pluggable storage

10.1. Pluggable Storage Engine API

10.2. WiredTiger

10.3. Comparison with MMAPv1

10.4. Other examples of pluggable storage engines

10.5. Advanced topics

10.6. Summary

11. Replication

11.1. Replication overview

11.2. Replica sets

11.3. Drivers and replication

11.4. Summary

12. Scaling your system with Sharding

12.1. Sharding overview

12.2. Understanding components of a sharded cluster

12.3. Distributing data in a sharded cluster

12.4. Building a sample shard cluster

12.5. Querying and indexing a shard cluster

12.6. Choosing a shard key

12.7. Sharding in production

12.8. Summary

13. Deployment and administration

13.1. Hardware and provisioning

13.2. Monitoring and diagnostics

13.3. Backups

13.4. Security

13.5. Administrative tasks

13.6. Performance troubleshooting

13.7. Deployment checklist

13.8. Summary

Appendixes

Appendix A: Installation

A.1. Installation

A.2. MongoDB on Linux

A.3. MongoDB on Mac OS X

A.4. MongoDB on Windows

A.5. Compiling MongoDB from source

A.6. Troubleshooting

A.7. Basic configuration options

A.8. Installing Ruby

Appendix B: Design patterns

B.1. Embed vs. reference

B.2. One-to-many

B.3. Many-to-many

B.4. Trees

B.5. Worker queues

B.6. Dynamic attributes

B.7. Transactions

B.8. Locality and precomputation

B.9. Antipatterns

Appendix C: Binary data and GridFS

To purchase this product, please visit:
https://www.wileyindia.com/mongodb-in-action-2ed-covers-mongodb-version-3-0.html

Scan to buy