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# Mongodb The Definitive Guide

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Developing Cloud-Native Applications

Big Data Processing Made Simple

Master the World's Most-Used Programming Language

Powerful and Scalable Data Storage

Powerful and Scalable Data Storage

Data Modeling for MongoDB

The definitive guide to using the MEAN stack to build web applications

Patterns and Processes for the Popular Document-oriented Database

MongoDB

The NoSQL Database for Cloud and Desktop Computing

The Definitive Guide, 3rd Edition

A Complete Guide to Dealing with Big Data Using MongoDB

Practical Use Cases with the Leading NoSQL Database

MongoDB: The Definitive Guide

MongoDB Complete Guide

MongoDB in Action

Spring Data

Node.js, MongoDB and AngularJS Web Development

Covers MongoDB version 3.0

MongoDB: The Definitive Guide

Kafka: The Definitive Guide

MongoDB

MongoDB Fundamentals

MongoDB

MongoDB

The NoSQL Database for Cloud and Desktop Computing

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Mongodb

The Definitive Guide to MongoDB

MongoDB: The Definitive Guide

## TYRESE NIGEL

**Developing Cloud-Native Applications** "O'Reilly Media, Inc." Get the definitive guide on Gatsby, the JavaScript framework for building blazing fast websites and applications. Used by Nike, Costa Coffee, and other companies worldwide, Gatsby is emerging as one of the key technologies in the Jamstack (JavaScript, APIs, and markup) ecosystem. With this comprehensive guide, you'll learn how to architect, build, and deploy Gatsby sites independently or with CMSs, commerce systems, and other data sources. Author Preston So begins by showing you how to set up a Gatsby site from scratch. From there, you'll learn ways to use Gatsby's declarative rendering and GraphQL API, build complex offline-enabled sites, and continuously deploy Gatsby sites on a variety of platforms, including Gatsby Cloud. Discover how Gatsby integrates with many data sources and plug-ins Set up, configure, and architect Gatsby sites using Gatsby's CLI, React, JSX, and GraphQL with high performance out of the box Build an independent Gatsby site based on Markdown and data- and content-driven Gatsby sites that integrate with CMSs and commerce platforms Deploy Gatsby sites with full CI/CD and test coverage on a variety of platforms, including Netlify, Vercel, and Gatsby Cloud

### Big Data Processing Made Simple CreateSpace

Manage your data in a database system designed to support modern application development. The updated edition of this authoritative and accessible guide shows you the many advantages of using document-oriented databases, including how this secure, high-performance system enables flexible data models, high availability, and horizontal scalability. Written by current and former members of the MongoDB team, the third edition is updated for MongoDB 4.0. You'll find substantial updates on querying, indexing, aggregation, replica sets, ops manager, sharding administration, data administration, durability, monitoring, and security. Authors Shannon Bradshaw (MongoDB) and Kristina Chodorow (Google) provide guidance for database developers, advanced configuration for system administrators,

and use cases for a variety of projects. Ideal for NoSQL newcomers and experienced MongoDB users alike, this book also includes many real-world schema design examples.

### **Master the World's Most-Used Programming Language**

"O'Reilly Media, Inc."

Building rich JavaScript applications that bring a desktop experience to the Web requires moving state from the server to the client side—not a simple task. This hands-on book takes proficient JavaScript developers through all the steps necessary to create state-of-the-art applications, including structure, templating, frameworks, communicating with the server, and many other issues. Throughout the book, you'll work with real-world example applications to help you grasp the concepts involved. Learn how to create JavaScript applications that offer a more responsive and improved experience. Use the Model-View-Controller (MVC) pattern, and learn how to manage dependencies inside your application Get an introduction to templating and data binding Learn about loading remote data, Ajax, and cross-domain requests Create realtime applications with WebSockets and Node.js Accept dropped files and upload data with progress indicators Use major frameworks and libraries, including jQuery, Spine, and Backbone Write tests and use the console to debug your applications Get deployment best practices, such as caching and minification

### **Powerful and Scalable Data Storage** Apress

Manage, fine-tune, secure and deploy your MongoDB solution with ease with the help of practical recipes About This Book Configure and deploy your MongoDB instance securely, without any hassle Optimize your database's query performance, perform scale-out operations, and make your database highly available Practical guide with a recipe-based approach to help you tackle any problem in the application and database administration aspects of MongoDB Who This Book Is For Database administrators with a basic understanding of the features of MongoDB and who want to professionally configure, deploy, and administer a MongoDB database, will find this book essential. If you are a MongoDB developer and want to get into MongoDB administration, this book will also help you. What You Will Learn Install and deploy MongoDB in production Manage and implement optimal indexes

Optimize monitoring in MongoDB Fine-tune the performance of your queries Debug and diagnose your database's performance Optimize database backups and recovery and ensure high availability Make your MongoDB instance scalable Implement security and user authentication features in MongoDB Master optimal cloud deployment strategies In Detail MongoDB is a high-performance and feature-rich NoSQL database that forms the backbone of the systems that power many different organizations. Packed with many features that have become essential for many different types of software professional and incredibly easy to use, this cookbook contains more than 100 recipes to address the everyday challenges of working with MongoDB. Starting with database configuration, you will understand the indexing aspects of MongoDB. The book also includes practical recipes on how you can optimize your database query performance, perform diagnostics, and query debugging. You will also learn how to implement the core administration tasks required for high-availability and scalability, achieved through replica sets and sharding, respectively. You will also implement server security concepts such as authentication, user management, role-based access models, and TLS configuration. You will also learn how to back up and recover your database efficiently and monitor server performance. By the end of this book, you will have all the information you need—along with tips, tricks, and best practices—to implement a high-performance MongoDB solution. Style and approach This practical book follows a problem-solution approach to help you tackle any issues encountered while performing MongoDB administrative tasks. Each recipe is detailed, and explained in a very easy to understand manner

### *Powerful and Scalable Data Storage* O'Reilly Media

Provides information for building dynamic, high performance websites and Web applications completely in JavaScript, from server to client, using the Node.js, MongoDB, and AngularJS Web development technologies.

### **Data Modeling for MongoDB** "O'Reilly Media, Inc."

The Definitive Guide to MongoDB, Third Edition, is updated for MongoDB 3 and includes all of the latest MongoDB features, including the aggregation framework introduced in version 2.2

and hashed indexes in version 2.4. The Third Edition also now includes Python. MongoDB is the most popular of the "Big Data" NoSQL database technologies, and it's still growing. David Hows from 10gen, along with experienced MongoDB authors Peter Membrey and Eelco Plugge, provide their expertise and experience in teaching you everything you need to know to become a MongoDB pro.

[The definitive guide to using the MEAN stack to build web applications](#) "O'Reilly Media, Inc."

Congratulations! You completed the MongoDB application within the given tight timeframe and there is a party to celebrate your application's release into production. Although people are congratulating you at the celebration, you are feeling some uneasiness inside. To complete the project on time required making a lot of assumptions about the data, such as what terms meant and how calculations are derived. In addition, the poor documentation about the application will be of limited use to the support team, and not investigating all of the inherent rules in the data may eventually lead to poorly-performing structures in the not-so-distant future. Now, what if you had a time machine and could go back and read this book. You would learn that even NoSQL databases like MongoDB require some level of data modeling. Data modeling is the process of learning about the data, and regardless of technology, this process must be performed for a successful application. You would learn the value of conceptual, logical, and physical data modeling and how each stage increases our knowledge of the data and reduces assumptions and poor design decisions. Read this book to learn how to do data modeling for MongoDB applications, and accomplish these five objectives: Understand how data modeling contributes to the process of learning about the data, and is, therefore, a required technique, even when the resulting database is not relational. That is, NoSQL does not mean NoDataModeling! Know how NoSQL databases differ from traditional relational databases, and where MongoDB fits. Explore each MongoDB object and comprehend how each compares to their data modeling and traditional relational database counterparts, and learn the basics of adding, querying, updating, and deleting data in MongoDB. Practice a streamlined, template-driven approach to performing conceptual, logical, and physical data modeling. Recognize that data modeling does not always

have to lead to traditional data models! Distinguish top-down from bottom-up development approaches and complete a top-down case study which ties all of the modeling techniques together. This book is written for anyone who is working with, or will be working with MongoDB, including business analysts, data modelers, database administrators, developers, project managers, and data scientists. There are three sections: In Section I, Getting Started, we will reveal the power of data modeling and the tight connections to data models that exist when designing any type of database (Chapter 1), compare NoSQL with traditional relational databases and where MongoDB fits (Chapter 2), explore each MongoDB object and comprehend how each compares to their data modeling and traditional relational database counterparts (Chapter 3), and explain the basics of adding, querying, updating, and deleting data in MongoDB (Chapter 4). In Section II, Levels of Granularity, we cover Conceptual Data Modeling (Chapter 5), Logical Data Modeling (Chapter 6), and Physical Data Modeling (Chapter 7). Notice the "ing" at the end of each of these chapters. We focus on the process of building each of these models, which is where we gain essential business knowledge. In Section III, Case Study, we will explain both top down and bottom up development approaches and go through a top down case study where we start with business requirements and end with the MongoDB database. This case study will tie together all of the techniques in the previous seven chapters. Nike Senior Data Architect Ryan Smith wrote the foreword. Key points are included at the end of each chapter as a way to reinforce concepts. In addition, this book is loaded with hands-on exercises, along with their answers provided in Appendix A. Appendix B contains all of the book's references and Appendix C contains a glossary of the terms used throughout the text.

**Patterns and Processes for the Popular Document-oriented Database** Packt Publishing Ltd

Node.js, MongoDB and Angular Web Development The definitive guide to using the MEAN stack to build web applications Node.js is a leading server-side programming environment, MongoDB is the most popular NoSQL database, and Angular is the leading framework for MVC-based front-end development. Together, they provide an easy-to-implement, fully integrated web development stack that allows web programmers to create high-performance

sites and applications built completely in JavaScript, from server to client. Updated for Angular 2, Angular 4, and subsequent versions, this new edition of Node.js, MongoDB and Angular Web Development shows you how to integrate these three technologies into complete working solutions. It begins with concise, crystal-clear tutorials on each technology and then quickly moves on to building common web applications. You'll learn how to use Node.js and MongoDB to build more scalable, high-performance sites, how to leverage Angular's innovative MVC approach to structure more effective pages and applications, and how to use all three together to deliver outstanding next-generation Web solutions. Implement a highly scalable and dynamic web server using Node.js and Express Implement a MongoDB data store for your web applications Access and interact with MongoDB from Node.js JavaScript code Learn the basics of TypeScript Define custom Angular directives that extend the HTML language Build server-side web services in JavaScript Implement client-side services that can interact with the Node.js web server Build dynamic browser views that provide rich user interaction Add authenticated user accounts and nested comment components to your web applications and pages Contents at a Glance Part I: Getting Started 1 Introducing the Node.js-to-Angular Stack 2 JavaScript Primer Part II: Learning Node.js 3 Getting Started with Node.js 4 Using Events, Listeners, Timers, and Callbacks in Node.js 5 Handling Data I/O in Node.js 6 Accessing the File System from Node.js 7 Implementing HTTP Services in Node.js 8 Implementing Socket Services in Node.js 9 Scaling Applications Using Multiple Processors in Node.js 10 Using Additional Node.js Modules Part III: Learning MongoDB 11 Understanding NoSQL and MongoDB 12 Getting Started with MongoDB 13 Getting Started with MongoDB and Node.js 14 Manipulating MongoDB Documents from Node.js 15 Accessing MongoDB from Node.js 16 Using Mongoose for Structured Schema and Validation 17 Advanced MongoDB Concepts Part IV: Using Express to Make Life Easier 18 Implementing Express in Node.js 19 Implementing Express Middleware Part V: Learning Angular 20 Jumping into TypeScript 21 Getting Started with Angular 22 Angular Components 23 Expressions 24 Data Binding 25 Built-in Directives Part VI: Advanced Angular 26 Custom Directives 27 Events and Change Detection 28 Implementing Angular Services in Web Applications 29 Creating Your Own Custom Angular

Services 30 Having Fun with Angular  
*MongoDB* "O'Reilly Media, Inc."

This comprehensive guide book begins by explaining what makes MongoDB unique. A series of tutorials designed for MongoDB mastery then leads into detailed examples for leveraging MongoDB in e-commerce, social networking, analytics, and other common applications.

**The NoSQL Database for Cloud and Desktop Computing**  
 Apress

This is the first book to cover db4o programming in comprehensive detail. Readers are briefed on all of the topics necessary to begin using it in production environments, including installation and configuration, querying and managing objects, performing transactions, and data replication. Newcomers to the topic aren't forgotten, as early chapters are devoted to object database fundamentals, in addition to technical considerations and migration strategies. Complete with numerous C# and Java examples, readers will be able to follow along with the examples regardless of their chosen language.

**The Definitive Guide, 3rd Edition** Manning Publications  
*MongoDB: The Definitive Guide* Powerful and Scalable Data Storage "O'Reilly Media, Inc."

[A Complete Guide to Dealing with Big Data Using MongoDB](#) Packt Publishing Ltd

Every enterprise application creates data, whether it's log messages, metrics, user activity, outgoing messages, or something else. And how to move all of this data becomes nearly as important as the data itself. If you're an application architect, developer, or production engineer new to Apache Kafka, this practical guide shows you how to use this open source streaming platform to handle real-time data feeds. Engineers from Confluent and LinkedIn who are responsible for developing Kafka explain how to deploy production Kafka clusters, write reliable event-driven microservices, and build scalable stream-processing applications with this platform. Through detailed examples, you'll learn Kafka's design principles, reliability guarantees, key APIs, and architecture details, including the replication protocol, the controller, and the storage layer. Understand publish-subscribe messaging and how it fits in the big data ecosystem. Explore Kafka producers and consumers for writing and reading messages Understand Kafka patterns and use-case requirements to ensure

reliable data delivery Get best practices for building data pipelines and applications with Kafka Manage Kafka in production, and learn to perform monitoring, tuning, and maintenance tasks Learn the most critical metrics among Kafka's operational measurements Explore how Kafka's stream delivery capabilities make it a perfect source for stream processing systems [Practical Use Cases with the Leading NoSQL Database](#) "O'Reilly Media, Inc."

Master MongoDB - The widely used modern database in a step-by-step, practical, and easy-to-understand approach covering all major topics **KEY FEATURES** ● In-depth practical demonstration of MongoDB concepts with numerous examples. ● Includes graphical illustrations and visual explanations for MongoDB commands and methods. ● Covers advanced topics such as MongoDB Compass, MongoDB Security, Backup and Restore, and Replication and Sharding. **DESCRIPTION** MongoDB Complete Guide book starts with the basics of MongoDB, what exactly is MongoDB, and how to use it practically. You will understand how MongoDB is different from the traditional RDBMS. Topics such as installation and configuration of the MongoDB server, MongoDB commands, MongoDB Shell methods, and data types in MongoDB are covered in detail. You will practice how to perform MongoDB CRUD operations, indexing, MongoDB query selectors, projection in MongoDB and projection operators as well as aggregation in a very detailed and step-by-step manner. You learn how to work with MongoDB Compass and some of the advanced MongoDB topics like managing and administering MongoDB, managing the MongoDB process, monitoring and diagnosing MongoDB, backup and restore, MongoDB security, replication and sharding. **WHAT YOU WILL LEARN** ● Perform write operations, search documents, and define complex queries in MongoDB. ● Perform indexing, aggregation, and data replication. ● End-to-end MongoDB administration along with authentication and authorization. ● Running backups, restoring, and monitoring of MongoDB database enterprise-wide. **WHO THIS BOOK IS FOR** This book is designed for software developers and server administrators who want to quickly learn MongoDB basics and start applying the knowledge of MongoDB in their business systems. **TABLE OF CONTENTS** MongoDB Basics 1. Introduction to MongoDB 2. MongoDB Installation and Setup on Windows 3. MongoDB Installation and Setup on Linux (Ubuntu) 4. MongoDB Installation

and Setup on macOS 5. Getting started with MongoDB 6. Storage Engines in MongoDB 7. Managing and Administering MongoDB 8. MongoDB Shell Methods 9. Data Types in MongoDB MongoDB Intermediate Level Topics 10. Introduction to MongoDB CRUD Operations 11. MongoDB Intermediate Concepts 12. Introduction to MongoDB Indexes 13. MongoDB Query Selectors 14. Projection in MongoDB and Projection Operators 15. Aggregation in MongoDB 16. MongoDB Data Manipulations Using MongoDB Compass MongoDB Advanced Level Topics 17. Managing and Administering MongoDB (Advanced Level) 18. Replication in MongoDB 19. Sharding in MongoDB [MongoDB: The Definitive Guide](#) O'Reilly Media With Early Release ebooks, you get books in their earliest form—the author's raw and unedited content as he or she writes—so you can take advantage of these technologies long before the official release of these titles. You'll also receive updates when significant changes are made, new chapters are available, and the final ebook bundle is released. Manage your data in a database system designed to support modern application development. The updated edition of this authoritative and accessible guide shows you the many advantages of using document-oriented databases, including how this secure, high-performance system enables flexible data models, high availability, and horizontal scalability. Written by current and former members of the MongoDB team, the third edition is updated for MongoDB 3.6. You'll find substantial updates on querying, indexing, aggregation, replica sets, ops manager, sharding administration, data administration, durability, monitoring, and security. Authors Shannon Bradshaw (MongoDB) and Kristina Chodorow (Google) provide guidance for database developers, advanced configuration for system administrators, and use cases for a variety of projects. Ideal for NoSQL newcomers and experienced MongoDB users alike, this book also includes many real-world schema design examples.

**MongoDB Complete Guide** Apress

Need a quick and easy to understand introduction to MongoDB and NoSQL databases? MongoDB Basics, from The Definitive Guide to MongoDB, 2E, shows you how a document-oriented database system differs from a relational database, and how to install and get started using it. You'll also learn MongoDB design basics, including geospatial indexing, how to navigate, view, and



query your database, and how to use GridFS with a bit of Python. Addison-Wesley Professional

MongoDB, a cross-platform NoSQL database, is the fastest-growing new database in the world. MongoDB provides a rich document-oriented structure with dynamic queries that you'll recognize from RDBMS offerings such as MySQL. In other words, this is a book about a NoSQL database that does not require the SQL crowd to re-learn how the database world works! MongoDB has reached 1.0 and boasts 50,000+ users. The community is strong and vibrant and MongoDB is improving at a fast rate. With scalable and fast databases becoming critical for today's applications, this book shows you how to install, administer and program MongoDB without pretending SQL never existed.

*MongoDB in Action* O'Reilly Media

Perform fast interactive analytics against different data sources using the Trino high-performance distributed SQL query engine. With this practical guide, you'll learn how to conduct analytics on data where it lives, whether it's Hive, Cassandra, a relational database, or a proprietary data store. Analysts, software engineers, and production engineers will learn how to manage, use, and even develop with Trino. Initially developed by Facebook, open source Trino is now used by Netflix, Airbnb, LinkedIn, Twitter, Uber, and many other companies. Matt Fuller, Manfred Moser, and Martin Traverso show you how a single Trino query can combine data from multiple sources to allow for analytics across your entire organization. Get started: Explore Trino's use cases and learn about tools that will help you connect to Trino and query data Go deeper: Learn Trino's internal workings, including how to connect to and query data sources with support for SQL statements, operators, functions, and more Put Trino in production: Secure Trino, monitor workloads, tune queries, and connect more applications; learn how other organizations apply Trino

*Spring Data* Sams Publishing

Whether you're building a social media site or an internal-use

enterprise application, this hands-on guide shows you the connection between MongoDB and the business problems it's designed to solve. You'll learn how to apply MongoDB design patterns to several challenging domains, such as ecommerce, content management, and online gaming. Using Python and JavaScript code examples, you'll discover how MongoDB lets you scale your data model while simplifying the development process. Many businesses launch NoSQL databases without understanding the techniques for using their features most effectively. This book demonstrates the benefits of document embedding, polymorphic schemas, and other MongoDB patterns for tackling specific big data use cases, including: Operational intelligence: Perform real-time analytics of business data Ecommerce: Use MongoDB as a product catalog master or inventory management system Content management: Learn methods for storing content nodes, binary assets, and discussions Online advertising networks: Apply techniques for frequency capping ad impressions, and keyword targeting and bidding Social networking: Learn how to store a complex social graph, modeled after Google+ Online gaming: Provide concurrent access to character and world data for a multiplayer role-playing game [Node.js, MongoDB and AngularJS Web Development](#) "O'Reilly Media, Inc."

Manage the huMONGOus amount of data collected through your web application with MongoDB. This authoritative introduction—written by a core contributor to the project—shows you the many advantages of using document-oriented databases, and demonstrates how this reliable, high-performance system allows for almost infinite horizontal scalability. This updated second edition provides guidance for database developers, advanced configuration for system administrators, and an overview of the concepts and use cases for other people on your project. Ideal for NoSQL newcomers and experienced MongoDB users alike, this guide provides numerous real-world schema

design examples. Get started with MongoDB core concepts and vocabulary Perform basic write operations at different levels of safety and speed Create complex queries, with options for limiting, skipping, and sorting results Design an application that works well with MongoDB Aggregate data, including counting, finding distinct values, grouping documents, and using MapReduce Gather and interpret statistics about your collections and databases Set up replica sets and automatic failover in MongoDB Use sharding to scale horizontally, and learn how it impacts applications Delve into monitoring, security and authentication, backup/restore, and other administrative tasks *Covers MongoDB version 3.0* MongoDB: The Definitive Guide Powerful and Scalable Data Storage

You can choose several data access frameworks when building Java enterprise applications that work with relational databases. But what about big data? This hands-on introduction shows you how Spring Data makes it relatively easy to build applications across a wide range of new data access technologies such as NoSQL and Hadoop. Through several sample projects, you'll learn how Spring Data provides a consistent programming model that retains NoSQL-specific features and capabilities, and helps you develop Hadoop applications across a wide range of use-cases such as data analysis, event stream processing, and workflow. You'll also discover the features Spring Data adds to Spring's existing JPA and JDBC support for writing RDBMS-based data access layers. Learn about Spring's template helper classes to simplify the use of database-specific functionality Explore Spring Data's repository abstraction and advanced query functionality Use Spring Data with Redis (key/value store), HBase (column-family), MongoDB (document database), and Neo4j (graph database) Discover the GemFire distributed data grid solution Export Spring Data JPA-managed entities to the Web as RESTful web services Simplify the development of HBase applications, using a lightweight object-mapping framework Build example big-data pipelines with Spring Batch and Spring Integration

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