

# The Definitive To MongoDB 3rd Edition

MongoDB The Definitive Guide to MongoDB MongoDB: The Definitive Guide The Definitive Guide to MongoDB MongoDB 8.0 in Action, Third Edition MongoDB Web Development with MongoDB and Node Web Development with MongoDB and Node MongoDB in Action, Third Edition Core Python Applications Programming Mastering MongoDB 3.x MongoDB Complete Guide The Definitive Guide to MongoDB MongoDB in Action MongoDB in Action MongoDB Fundamentals MongoDB in Action MongoDB Scaling MongoDB MongoDB Administrator's Guide Kristina Chodorow Eelco Plugge Shannon Bradshaw Eelco Plugge Arek Borucki Kristina Chodorow Bruno Joseph D'mello Bruno Joseph D'Mello Arek Borucki Wesley J Chun Alex Giamas Manu Sharma Peter Membrey Kyle Banker Kyle Banker Amit Phaltankar Kyle Banker Joe L. Macdonald Kristina Chodorow Cyrus Dasadia MongoDB The Definitive Guide to MongoDB MongoDB: The Definitive Guide The Definitive Guide to MongoDB MongoDB 8.0 in Action, Third Edition MongoDB Web Development with MongoDB and Node Web Development with MongoDB and Node MongoDB in Action, Third Edition Core Python Applications Programming Mastering MongoDB 3.x MongoDB Complete Guide The Definitive Guide to MongoDB MongoDB in Action MongoDB in Action MongoDB Fundamentals MongoDB in Action MongoDB Scaling MongoDB MongoDB Administrator's Guide *Kristina Chodorow Eelco Plugge Shannon Bradshaw Eelco Plugge Arek Borucki Kristina Chodorow Bruno Joseph D'mello Bruno Joseph D'Mello Arek Borucki Wesley J Chun Alex Giamas Manu Sharma Peter Membrey Kyle Banker Kyle Banker Amit Phaltankar Kyle Banker Joe L. Macdonald Kristina Chodorow Cyrus Dasadia*

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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

manage your data with a system designed to support modern application development updated for mongodb 4.2 the third edition of this authoritative and accessible guide shows you the advantages of using document oriented databases you ll learn how this secure high performance system enables flexible data models high availability and horizontal scalability authors shannon bradshaw eoin brazil and kristina chodorow provide guidance for database developers advanced configuration for system administrators and use cases for a variety of projects nosql newcomers and experienced mongodb users will find updates on querying indexing aggregation transactions replica sets ops management sharding and data administration durability monitoring and security in six parts this book shows you how to work with mongodb perform write operations find documents and create complex queries index collections aggregate data and use transactions for your application configure a local replica set and learn how replication interacts with your application set up cluster components and choose a shard key for a variety of applications explore aspects of application administration and configure authentication and authorization use stats when monitoring back up and restore deployments and use system settings when deploying mongodb

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

deliver flexible scalable and high performance data storage that s perfect for ai and other modern applications with mongodb 8.0 and mongodb atlas multi cloud data platform in mongodb 8.0 in action third edition you ll find comprehensive coverage of the latest version of mongodb 8.0 and the mongodb atlas multi cloud data platform learn to utilize mongodb s flexible schema design for data modeling scale applications effectively using advanced sharding features integrate full text and vector based semantic search and more this totally revised new edition delivers engaging hands on tutorials and examples that put mongodb into action in mongodb 8.0 in action third edition you ll master new features in mongodb 8.0 create your first free atlas cluster using the atlas cli design scalable nosql databases with effective data modeling techniques master vector search for building genai driven applications utilize advanced search capabilities in mongodb atlas including full text search build event driven applications with atlas stream processing deploy and manage mongodb atlas clusters both locally and in the cloud using the atlas cli leverage the atlas sql interface for familiar sql querying use mongodb atlas online archive for efficient data management establish robust security practices including encryption master backup and restore strategies optimize database performance and identify slow queries mongodb 8.0 in action third edition offers a clear easy to understand introduction to everything in mongodb 8.0 and mongodb atlas including new advanced features such as embedded config servers in sharded clusters or moving an unsharded collection to a different shard the book also covers atlas stream processing full text search and vector search capabilities for generative ai applications each chapter is packed with tips tricks and practical examples you can quickly apply to your projects whether you re brand new to mongodb or looking to get up to speed with the latest version about the technology mongodb is the database of choice for storing structured semi structured and unstructured data like business documents and

other text and image files mongodb 8 0 introduces a range of exciting new features from sharding improvements that simplify the management of distributed data to performance enhancements that stay resilient under heavy workloads plus mongodb atlas brings vector search and full text search features that support ai powered applications about the book mongodb 8 0 in action third edition you ll learn how to take advantage of all the new features of mongodb 8 0 including the powerful mongodb atlas multi cloud data platform you ll start with the basics of setting up and managing a document database then you ll learn how to use mongodb for ai driven applications implement advanced stream processing and optimize performance with improved indexing and query handling hands on projects like creating a rag based chatbot and building an aggregation pipeline mean you ll really put mongodb into action what s inside the new features in mongodb 8 0 get familiar with mongodb s atlas cloud platform utilizing sharding enhancements using vector based search technologies full text search capabilities for efficient text indexing and querying about the reader for developers and dbas of all levels no prior experience with mongodb required about the author arek borucki is a mongodb champion certified mongodb and mongodb atlas administrator with expertise in distributed systems nosql databases and kubernetes

this introductory text shows the advantages of using document oriented databases and demonstrates how mongodb is a reliable high performance system that allows for 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 a project

use the two popular web development stacks node js and mongodb to build full featured web applications about this book learn the new ecmascript along with node 8 and mongodb to make your application more effective get the up to date information required to launch your first application prototype using the latest versions of node js and mongodb a practical guide with clear instructions to designing and developing a complete web application from start to finish using trending frameworks such as angular4 and hapi who this book is for the book is designed for javascript developers of any skill level who want to get up and running using node js and mongodb to build full featured web applications a basic understanding of javascript and html is the only prerequisite for this book what you will learn work with node js building blocks write and configure a web server using node js powered by the express js framework build dynamic html pages using the handlebars template engine persist application data using mongodb and mongoose odm test your code using automated testing tools such as the mocha framework automate test cases using gulp reduce your web development time by integrating third party tools for web interaction deploy a development environment to the cloud using services such as heroku amazon services and microsoft azure explore single page application frameworks to take your web applications to the next level in detail node js builds fast scalable network applications while mongodb is the perfect fit as a high performance open source nosql database solution the combination of these two technologies offers high performance and scalability and helps in building fast scalable network applications together they provide the power for manage any form of data as well as speed of delivery this book will help you to get these two technologies working together to build web applications quickly and easily with effortless deployment to the cloud you will also learn about angular 4 which consumes pure json apois from a hapi server the book begins by setting up your development environment running you through the steps necessary to get the main application server up and running then you will see how to use node js to connect to a mongodb database and perform data manipulations from here on the book will take you through integration with third party tools to interact with web apps you will see how to use

controllers and view models to generate reusable code that will reduce development time toward the end the book supplies tests to properly execute your code and take your skills to the next level with the most popular frameworks for developing web applications by the end of the book you will have a running web application developed with mongodb node js and some of the most powerful and popular frameworks style and approach a practical guide with clear instructions to designing and developing a complete web application from start to finish

deliver flexible scalable and high performance data storage that s perfect for ai and other modern applications with mongodb 8 0 and mongodb atlas multi cloud data platform in mongodb 8 0 in action third edition you ll find comprehensive coverage of the latest version of mongodb 8 0 and the mongodb atlas multi cloud data platform learn to utilize mongodb s flexible schema design for data modeling scale applications effectively using advanced sharding features integrate full text and vector based semantic search and more this totally revised new edition delivers engaging hands on tutorials and examples that put mongodb into action in mongodb 8 0 in action third edition you ll master new features in mongodb 8 0 create your first free atlas cluster using the atlas cli design scalable nosql databases with effective data modeling techniques master vector search for building genai driven applications utilize advanced search capabilities in mongodb atlas including full text search build event driven applications with atlas stream processing deploy and manage mongodb atlas clusters both locally and in the cloud using the atlas cli leverage the atlas sql interface for familiar sql querying use mongodb atlas online archive for efficient data management establish robust security practices including encryption master backup and restore strategies optimize database performance and identify slow queries mongodb 8 0 in action third edition offers a clear easy to understand introduction to everything in mongodb 8 0 and mongodb atlas including new advanced features such as embedded config servers in sharded clusters or moving an unsharded collection to a different shard the book also covers atlas stream processing full text search and vector search capabilities for generative ai applications each chapter is packed with tips tricks and practical examples you can quickly apply to your projects whether you re brand new to mongodb or looking to get up to speed with the latest version about the technology mongodb is the database of choice for storing structured semi structured and unstructured data like business documents and other text and image files mongodb 8 0 introduces a range of exciting new features from sharding improvements that simplify the management of distributed data to performance enhancements that stay resilient under heavy workloads plus mongodb atlas brings vector search and full text search features that support ai powered applications about the book mongodb 8 0 in action third edition you ll learn how to take advantage of all the new features of mongodb 8 0 including the powerful mongodb atlas multi cloud data platform you ll start with the basics of setting up and managing a document database then you ll learn how to use mongodb for ai driven applications implement advanced stream processing and optimize performance with improved indexing and query handling hands on projects like creating a rag based chatbot and building an aggregation pipeline mean you ll really put mongodb into action what s inside the new features in mongodb 8 0 get familiar with mongodb s atlas cloud platform utilizing sharding enhancements using vector based search technologies full text search capabilities for efficient text indexing and querying about the reader for developers and dbas of all levels no prior experience with mongodb required about the author arek borucki is a mongodb champion certified mongodb and mongodb atlas administrator with expertise in distributed systems nosql databases and kubernetes table of contents part 1 1 understanding the world of mongodb 2 getting started with atlas and mongodb data 3 communicating with mongodb 4 executing crud operations 5 designing a mongodb schema 6 building aggregation pipelines 7 indexing for query performance

8 executing multidocument acid transactions 9 using replication and sharding part 2 10 delving into database as a service 11 carrying out full text search using atlas search 12 learning semantic techniques and atlas vector search 13 developing ai applications locally with the atlas cli 14 building retrieval augmented generation ai chatbots 15 building event driven applications 16 optimizing data processing with atlas data federation 17 archiving online with atlas online archive 18 querying atlas using sql 19 creating charts database triggers and functions part 3 20 understanding atlas and mongodb security features 21 operational excellence with atlas get a free ebook pdf or epub from manning as well as access to the online livebook format and its ai assistant that will answer your questions in any language when you purchase the print book

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an expert's guide to build fault tolerant mongodb application about this book master the advanced modeling querying and administration techniques in mongodb and become a mongodb expert covers the latest updates and big data features frequently used by professional mongodb developers and administrators if your goal is to become a certified mongodb professional this book is your perfect companion who this book is for

mastering mongodb is a book for database developers architects and administrators who want to learn how to use mongodb more effectively and productively if you have experience in and are interested in working with nosql databases to build apps and websites then this book is for you what you will learn get hands on with advanced querying techniques such as indexing expressions arrays and more configure monitor and maintain highly scalable mongodb environment like an expert master replication and data sharding to optimize read write performance design secure and robust applications based on mongodb administer mongodb based applications on premise or in the cloud scale mongodb to achieve your design goals integrate mongodb with big data sources to process huge amounts of data in detail mongodb has grown to become the de facto nosql database with millions of users from small startups to fortune 500 companies addressing the limitations of sql schema based databases mongodb pioneered a shift of focus for devops and offered sharding and replication maintainable by devops teams the book is based on mongodb 3 x and covers topics ranging from database querying using the shell built in drivers and popular odm mappers to more advanced topics such as sharding high availability and integration with big data sources you will get an overview of mongodb and how to play to its strengths with relevant use cases after that you will learn how to query mongodb effectively and make use of indexes as much as possible the next part deals with the administration of mongodb installations on premise or in the cloud we deal with database internals in the next section explaining storage systems and how they can affect performance the last section of this book deals with replication and mongodb scaling along with integration with heterogeneous data sources by the end this book you will be equipped with all the required industry skills and knowledge to become a certified mongodb developer and administrator style and approach this book takes a practical step by step approach to explain the concepts of mongodb practical use cases involving real world examples are used throughout the book to clearly explain theoretical concepts

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 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

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

learn how to deploy and monitor databases in the cloud manipulate documents visualize data and build applications running on mongodb using node js key features learn the fundamentals of nosql databases with mongodb create manage and optimize a mongodb database in the cloud using atlas use a real world dataset to gain practical experience of handling big data book description mongodb is one of the most popular database technologies for handling large collections of data this book will help mongodb beginners develop the knowledge and skills to create databases and process data efficiently unlike other mongodb books mongodb fundamentals dives into cloud computing from the very start showing you how to get started with atlas in the first chapter you will discover how to modify existing data add new data into a database and handle complex queries by creating aggregation pipelines as you progress you ll learn about the mongodb replication architecture and configure a simple cluster you will also get to grips with user authentication as well as techniques for backing up and restoring data finally you ll perform data visualization using mongodb charts you will work on realistic projects that are presented as bitesize exercises and activities allowing you to challenge yourself in an enjoyable and attainable way many of these mini projects are based around a movie database case study while the last chapter acts as a final project where you will use mongodb to solve a real world problem based on a bike sharing app by the end of this book you ll have the skills and confidence to process large volumes of data and tackle your own projects using mongodb what you will learn set up and use mongodb atlas on the cloud insert update delete and retrieve data from mongodb build aggregation pipelines to perform complex queries optimize queries using indexes monitor databases and manage user authorization improve scalability and performance with sharding clusters replicate clusters back up your database and restore data create data driven charts and reports from real time data who this book is for this book is designed for people who are new to mongodb it is suitable for developers database administrators system administrators and cloud architects who are looking to use mongodb for smooth data processing in the cloud although not necessary basic knowledge of a general programming language and experience with other databases will help you grasp the topics covered more easily

summary 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 purchase of the print book includes a free ebook in pdf kindle and epub formats from manning publications about the technology this document oriented database was built for high availability supports rich dynamic schemas and lets you easily distribute data across multiple servers mongodb 3.0 is flexible scalable and very fast even with big data loads about the book 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 what's inside indexes queries and standard db operations aggregation and text searching map reduce for custom aggregations and reporting deploying for scale and high availability updated for mongo 3.0 about the reader written for developers no previous mongodb or nosql experience is assumed about the authors after working at mongodb kyle banker is now at a startup peter bakkum is a developer with mongodb expertise shaun verch has worked on the core server team at mongodb a genentech engineer doug garrett is one of the winners of the mongodb innovation award for analytics a software architect tim hawkins has led search engineering at yahoo europe technical contributor wouter thielen technical editor mihalis tsoukalos

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this updated and expanded second edition of the mongodb the definitive guide provides a user friendly introduction to the subject taking a clear structural framework it guides the reader through the subject's core elements a flowing writing style combines with the use of illustrations and diagrams throughout the text to ensure the reader understands even the most complex of concepts this succinct and enlightening overview is a required reading for all those interested in the subject we hope you find this book useful in shaping your future career business

create a mongodb cluster that will grow to meet the needs of your application with this short and concise book you'll get guidelines for setting up and using clusters to store a large volume of data and learn how to access the data efficiently in the process you'll understand how to make your application work with a distributed database system scaling mongodb will help you set up a mongodb cluster through sharding work with a cluster to query and update data operate monitor and backup your cluster plan your application to deal with outages by following the advice in this book you'll be well on your way to building and running an efficient predictable distributed system using mongodb

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

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