The Definitive To Mongodb 3rd Edition

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MongoDB MongoDB 8.0 in Action, Third Edition Mastering MongoDB 3.x Mastering MongoDB 6.x The Definitive Guide to MongoDB The Definitive Guide to MongoDB Mastering MongoDB 4.x MongoDB: The Definitive Guide MongoDB Web Development with MongoDB and Node Web Development with MongoDB and Node MongoDB in Action, Third Edition Core Python Applications Programming MongoDB Complete Guide The Definitive Guide to MongoDB MongoDB in Action MongoDB in Action Scaling MongoDB MongoDB in Action Mongodb *Kristina Chodorow Arek Borucki Alex Giamas Alex Giamas Eelco Plugge Eelco Plugge Alex Giamas Shannon Bradshaw Kristina Chodorow Bruno Joseph D'Mello Bruno Joseph D'mello Arek Borucki Wesley Chun Manu Sharma Peter Membrey Kyle Banker Kyle Banker Kristina Chodorow Kyle Banker Joe L. Macdonald*

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

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

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

design and build solutions with the most powerful document database mongodb key featureslearn from the experts about every new feature in mongodb 6 and 5develop applications and administer clusters using mongodb on premise or in the cloudexplore code rich case studies showcasing mongodb s major features followed by best practicesbook description mongodb is a leading non relational database this book covers all the major features of mongodb including the latest version 6 mongodb 6 x adds many new features and expands on existing ones such as aggregation indexing replication sharding and mongodb atlas tools some of the mongodb atlas tools that you will master include atlas dedicated clusters and serverless atlas search charts realm application services sync compass cloud manager and data lake by getting hands on working with code using realistic use cases you will master the art of modeling shaping and querying your data and become the mongodb oracle for the business you will focus on broadly used and niche areas such as optimizing queries configuring large scale clusters configuring your cluster for high performance and availability and many more later you will become proficient in auditing monitoring and securing your clusters using a structured and organized approach by the end of this book you will have grasped all the practical understanding needed to design develop administer and scale mongodb based database applications both on premises and on the cloud what you will learnunderstand data modeling and schema design including smart indexingmaster querying data using aggregationuse distributed transactions replication and sharding for better resultsadminister your database using backups and monitoring toolssecure your cluster with the best checklists and advicemaster mongodb atlas search charts serverless realm compass cloud manager and other tools offered in the cloud or on premisesintegrate mongodb with other big data sourcesdesign and deploy mongodb in mobile iot and serverless environmentswho this book is for this book is for mongodb developers and database administrators who want to learn how to model their data using mongodb in depth for both greenfield and existing projects an understanding of mongodb shell command skills and basic database design concepts is required to get the most out of this book

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

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leverage the power of mongodb 4 x to build and administer fault tolerant database applications key featuresmaster the new features and capabilities of mongodb 4 x implement advanced data modeling querying and administration techniques in mongodbincludes rich case studies and best practices followed by expert mongodb developersbook description mongodb is the best platform for working with non relational data and is considered to be the smartest tool for organizing data in line with business needs the recently released mongodb 4 x supports acid transactions and makes the technology an asset for enterprises across the it and fintech sectors this book provides expertise in advanced and niche areas of managing databases such as modeling and querying databases along with various administration techniques in mongodb thereby helping you become a successful mongodb expert the book helps you understand how the newly added capabilities function with the help of some interesting examples and large datasets you will dive deeper into niche areas such as high performance configurations optimizing sql statements configuring large scale sharded clusters and many more you will also master best practices in overcoming database failover and master recovery and backup procedures for database security by the end of the book you will have gained a practical understanding of administering database applications both on premises and on the cloud you will also be able to scale database applications across all servers what you will learnperform advanced querying techniques such as indexing and expressionsconfigure monitor and maintain a highly scalable mongodb environment master replication and data sharding to optimize read write performance administer mongodb based applications on premises or on the cloud integrate mongodb with big data sources to process huge amounts of data deploy mongodb on kubernetes containers use mongodb in iot mobile and serverless environmentswho this book is for this book is ideal for mongodb developers and database administrators who wish to become successful mongodb experts and build scalable and fault tolerant applications using mongodb it will also be useful for database professionals who wish to become certified mongodb professionals some understanding of mongodb and basic database concepts is required to get the most out of this book

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

this guide covers the basic principles and advanced uses of this document oriented database and demonstrates why mongodb is one of the fastest growing databases learn how mongodb handles data and why mongodb is scalable high performance and reliable

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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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

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

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 table of contents part 1 getting started a database for the modern web mongodb through the javascript shell writing programs using mongodb part 2 application development in mongodb document oriented data constructing queries

aggregation updates atomic operations and deletes part 3 mongodb mastery indexing and query optimization text search wiredtiger and pluggable storage replication scaling your system with sharding deployment and administration

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

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