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The Definitive Guide to MongoDB

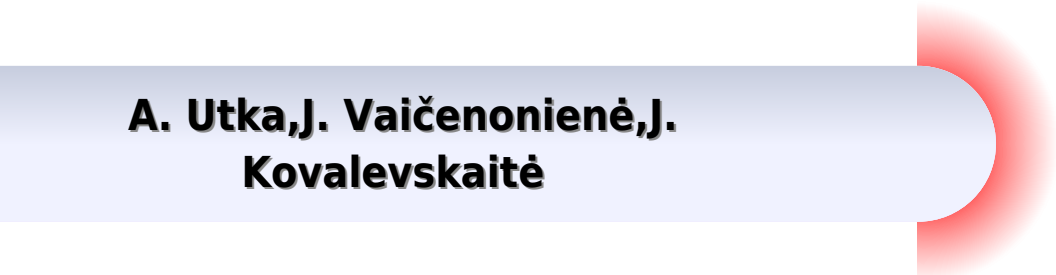
A complete guide to dealing with Big Data
using MongoDB

David Hows, Eelco Plugge, Peter Membrey, and Tim Hawkins

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Online Definitive Guide MongoDB Complete Dealing

**A. Utkā,J. Vaičėnonienė,J.
Kovalevskaitė**



Online Definitive Guide MongoDB Complete Dealing:

The Definitive Guide to MongoDB David Hows,Eelco Plugge,Peter Membrey,Tim Hawkins,2013-11-29 The Definitive Guide to MongoDB Second Edition is updated for the latest version and includes all of the latest MongoDB features including the aggregation framework introduced in version 2.2 and hashed indexes in version 2.4 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 MongoDB Eelco Plugge,David Hows,Peter Membrey,Tim Hawkins,2015-12-11 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

MongoDB: The Definitive Guide Kristina Chodorow,Michael Dirolf,2010-09-17 How does MongoDB help you manage a humongous amount of data collected through your web application With this authoritative introduction you'll learn the many advantages of using document oriented databases and discover why MongoDB is a reliable high performance system that allows for almost infinite horizontal scalability Written by engineers from 10gen the company that develops and supports this open source database MongoDB The Definitive Guide 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 Learn how easy it is to handle data as self contained JSON style documents rather than as records in a relational database Explore ways that document oriented storage will work for your project Learn how MongoDB's schema free data model handles documents collections and multiple databases Execute basic write operations and create complex queries to find data with any criteria Use indexes aggregation tools and other advanced query techniques Learn about monitoring security and authentication backup and repair and more Set up master slave and automatic failover replication in MongoDB Use sharding to scale MongoDB horizontally and learn how it impacts applications Get example applications written in Java PHP Python and Ruby

MongoDB Kristina Chodorow,2013 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

MongoDB: The Definitive Guide Shannon Bradshaw,Eoin Brazil,Kristina Chodorow,2019-12-09 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

Node.js, MongoDB and Angular Web Development Brad Dayley, Brendan Dayley, Caleb Dayley, 2017-10-11 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

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Human Language Technologies - The Baltic Perspective A. Utkas, J. Vaičėnienė, J. Kovalevskaitė, 2020-09-30 Human language technology is the study of the methods by which computer programs or electronic devices can analyze, produce, modify or respond to human texts and speech. It consists of natural language processing and computational linguistics on the one hand and speech technology on the other. This book presents the proceedings of the 9th International Conference Human Language Technologies The Baltic Perspective Baltic HLT 2020 organised in Kaunas, Lithuania on 22 and 23 September 2020. This biennial conference offers researchers a platform to share knowledge on recent advances in human language processing for the Baltic languages as well as promoting interdisciplinary and international cooperation in human language technology research within and beyond the Baltic States. In addition to the traditional topics of natural language processing and language technologies, this year's conference featured a special session on resource and tool development for teaching and learning the less resourced Baltic languages. This year 42 submissions were received, each of which was evaluated by two reviewers, resulting in a total of 34 papers being accepted for presentation and publication. The book is divided into four sections: speech and text analysis (9 papers), machine translation and natural understanding (6 papers), tools and resources (14 papers), and language learning resources (5 papers). Providing a fascinating overview of current research in the field from a primarily Baltic perspective, the book will be of interest to all those whose work involves human language technology.

The Definitive Guide to MongoDB Peter Membrey, Eelco Plugge, DUPTim Hawkins, 2011-01-27 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 relearn 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.

The Definitive Guide to Data Integration Pierre-Yves BONNEFOY, Emeric CHAIZE, Raphaël MANSUY, Mehdi TAZI, 2024-03-29 Learn the essentials of data integration with this comprehensive guide covering everything from sources to solutions and discover the key to making the most of your data stack. Key Features: Learn how to leverage modern data stack tools and technologies for effective data integration. Design and implement data integration solutions with practical advice and best practices. Focus on

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Web Development with MongoDB and Node Bruno Joseph D'mello,Mithun Satheesh,Jason Krol,2017-09-29 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 Web 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

Internet and Distributed Computing Systems Wenfeng Li,Shawkat Ali,Gabriel Lodewijks,Giancarlo Fortino,Giuseppe Di Fatta,Zhouping Yin,Mukaddim Pathan,Antonio Guerrieri,Qiang Wang,2016-09-20 This book constitutes the proceedings of the 9th International Conference on Internet and Distributed Computing Systems IDCS 2016 held in Wuhan China in September 2016 The 30 full papers and 18 short papers presented in this volume were carefully reviewed and selected from 78 submissions They were organized in topical sections named body sensor networks and wearable devices cloud computing and networking distributed computing and big data distributed scheduling and optimization internet of things and its application smart networked transportation and logistics and big data and social networks

Ultimate Full-Stack Web Development with MEVN: Learn From Designing to Deploying Production-Grade Web Applications with MongoDB, Express, Vue, and Node.js on AWS, Azure, and GCP

Bhargav Bachina,2024-07-19 Craft Production Grade Web Apps with MEVN on AWS Azure GCP Key Features Gain an in depth understanding of MongoDB Express js Vue js and Node js and its integration to build full stack applications Develop a complete project from scratch covering all aspects of the MEVN stack with detailed step by step instructions Learn how to deploy your MEVN stack applications on popular cloud platforms like AWS Azure and GCP Book DescriptionEmbark on a journey into modern web development with the Ultimate Full Stack Web Development with MEVN to build robust scalable applications using MongoDB Express js Vue js and Node js Starting with fundamental concepts and installation steps this book progresses to advanced topics and hands on coding exercises culminating in the creation of a comprehensive project

that spans the entire stack The book will dive into Vue js for crafting seamless dynamic user interfaces and explore Node js modules and components to effectively structure applications Next it will delve deeper into MongoDB for efficient data management and seamless integration within your MEVN stack It will navigate UI development intricacies and explore essential logging options to refine Node js API development practices In the concluding section you ll learn essential techniques for deploying MEVN applications effectively in production environments The book will cover Docker s capabilities for consistent application containerization across varied deployment settings and critical unit testing and end to end testing strategies to boost application reliability and performance What you will learn Integrate MongoDB Express js Vue js and Node js to build robust and scalable applications Utilize MongoDB Atlas and Mongoose for efficient data storage and management Build interactive user interfaces with component based architecture and state management using Vuex Use Node js and Express js to create and deploy efficient scalable server side applications Learn Docker fundamentals to containerize and manage applications consistently across environments Deploy scale and manage applications on AWS Azure and GCP with best practices Add functionalities like user authentication CRUD operations and API integrations through hands on projects Solve real world problems with coding exercises and scenarios solidifying your full stack development expertise

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[Ultimate Full-Stack Web Development with MEVN](#)

Bhargav Bachina,2024-07-19

TAGLINE Craft Production Grade Web Apps with MEVN on AWS Azure GCP

KEY FEATURES

- Gain an in depth understanding of MongoDB Express js Vue js and Node js and its integration to build full stack applications
- Develop a complete project from scratch covering all aspects of the MEVN stack with detailed step by step instructions
- Learn how to deploy your MEVN stack applications on popular cloud platforms like AWS Azure and GCP

DESCRIPTION Embark on a journey into modern web development with the Ultimate Full Stack Web Development with MEVN to build robust scalable applications using MongoDB Express js Vue js and Node js Starting with fundamental concepts and installation steps this book progresses to advanced topics and hands on coding exercises culminating in the creation of a comprehensive project that spans the entire stack The book will dive into Vue js for crafting seamless dynamic user interfaces and explore Node js modules and components to effectively structure applications Next it will delve deeper into MongoDB for efficient data management and seamless integration within your MEVN stack It will navigate UI development intricacies and explore essential logging options to refine Node js API development practices In the concluding section you ll learn essential techniques for deploying MEVN applications effectively in production environments The book will cover Docker s capabilities

for consistent application containerization across varied deployment settings and critical unit testing and end to end testing strategies to boost application reliability and performance By the end of the book you will be able to deploy and scale your MEVN apps on cloud platforms like Google Cloud AWS and Azure

WHAT WILL YOU LEARN Integrate MongoDB Express js Vue js and Node js to build robust and scalable applications Utilize MongoDB Atlas and Mongoose for efficient data storage and management Build interactive user interfaces with component based architecture and state management using Vuex Use Node js and Express js to create and deploy efficient scalable server side applications Learn Docker fundamentals to containerize and manage applications consistently across environments Deploy scale and manage applications on AWS Azure and GCP with best practices Add functionalities like user authentication CRUD operations and API integrations through hands on projects Solve real world problems with coding exercises and scenarios solidifying your full stack development expertise

WHO IS THIS BOOK FOR This book is tailored for aspiring and current developers including software engineers web developers and full stack developers who already have a basic understanding of web technologies and programming principles Familiarity with JavaScript HTML and CSS would be a plus If you are eager to deepen your skills in full stack MEVN development and learn about deploying applications on major cloud platforms like AWS Azure and GCP this book is for you

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Big Data - BigData 2019 Keke Chen, Sangeetha Seshadri, Liang-Jie Zhang, 2019-06-19 This volume constitutes the proceedings of the 8th International Congress on BIGDATA 2019 held as Part of SCF 2019 in San Diego CA USA in June 2019 The 9 full

papers presented in this volume were carefully reviewed and selected from 14 submissions They cover topics such as Big Data Models and Algorithms Big Data Architectures Big Data Management Big Data Protection Integrity and Privacy Security Applications of Big Data Big Data Search and Mining Big Data for Enterprise Government and Society *Web Development with Django* Ben Shaw, Saurabh Badhwar, Chris Guest, Bharath Chandra K S, 2023-05-26 Create your own websites easily securely and quickly with Django by tackling practical activities based on realistic case studies Key Features Understand Django functionality and the Model View Template MVT paradigm Create and iteratively build a book review website adding features as you build your knowledge Explore advanced concepts such as REST API implementation and third party module integration Book Description Do you want to develop reliable and secure applications that stand out from the crowd without spending hours on boilerplate code You've made the right choice trusting the Django framework and this book will tell you why Often referred to as a batteries included web development framework Django comes with all the core features needed to build a standalone application Web Development with Django will take you through all the essential concepts and help you explore its power to build real world applications using Python Throughout the book you'll get the grips with the major features of Django by building a website called Bookr a repository for book reviews This end to end case study is split into a series of bite size projects presented as exercises and activities allowing you to challenge yourself in an enjoyable and attainable way As you advance you'll acquire various practical skills including how to serve static files to add CSS JavaScript and images to your application how to implement forms to accept user input and how to manage sessions to ensure a reliable user experience You'll cover everyday tasks that are part of the development cycle of a real world web application By the end of this Django book you'll have the skills and confidence to creatively develop and deploy your own projects What you will learn Create a new application and add models to describe your data Use views and templates to control behavior and appearance Implement access control through authentication and permissions Develop practical web forms to add features such as file uploads Build a RESTful API and JavaScript code that communicates with it Connect to a database such as PostgreSQL Who this book is for This book is for programmers looking to enhance their web development skills using the Django framework To fully understand the concepts explained in this book basic knowledge of Python programming as well as familiarity with JavaScript HTML and CSS is assumed *Geographical Information Systems* Elaheh Pourabbas, 2014-05-16 Web services cloud computing location based services NoSQL databases and Semantic Web offer new ways of accessing analyzing and elaborating geo spatial information in both real world and virtual spaces This book explores the how to of the most promising recurrent technologies and trends in GIS such as Semantic GIS Web GIS Mobile GIS NoSQL

[SQL Programming | The Ultimate Guide for Beginners to Advanced | Learn SQL for Databases, Queries, and Data Analysis](#) Aamer Khan, SQL Programming The Ultimate Guide for Beginners to Advanced is a complete and practical guide designed to help you master Structured Query Language SQL for real world applications This book covers everything from

basic database concepts and simple queries to advanced joins subqueries indexing stored procedures and performance tuning Ideal for students developers data analysts and professionals looking to enhance their data handling skills this guide uses clear explanations and hands on examples to teach how to manage and manipulate data efficiently Whether you re starting out or looking to level up your SQL expertise this book is your go to resource

The Ultimate Guide to Building a Ground Station for CubeSat Communications Barrett Williams, ChatGPT, 2024-12-07 Unlock the mysteries of CubeSat communications with The Ultimate Guide to Building a Ground Station for CubeSat Communications This comprehensive eBook is your definitive roadmap to designing and implementing a ground station that efficiently communicates with CubeSats empowering you to join the frontier of space exploration Whether you re a hobbyist educator or researcher this guide demystifies the complexities of satellite communications and makes building your own ground station an achievable reality Start your journey with a captivating introduction to CubeSat technology and the pivotal role ground stations play in satellite communications Delve into the essential components and design processes learning how to visualize plan and construct a station tailored to your needs From selecting the perfect site considering environmental factors and navigating legal requirements you re equipped with the knowledge to lay a solid foundation Learn the intricacies of antenna systems including which types suit your objectives best along with detailed guidance on construction and installation Mastering radio frequency equipment becomes second nature as you explore the nuances of transceivers modulation and tuning Discover cutting edge satellite tracking software that enhances efficiency making data acquisition and processing seamless Expand your energy management skills with insights into power supply options and sustainable solutions ensuring your station remains operational round the clock The realm of networking and remote access becomes clear providing you with the ability to monitor and control your station securely from anywhere Troubleshooting tips and maintenance techniques keep your ground station at peak performance Explore collaborative opportunities with amateur radio networks educational institutions and global CubeSat missions As you learn about future trends and emerging technologies your ground station s potential for educational and research capabilities broadens Real world case studies and inspiring stories punctuate your learning experience sparking ideas and innovation Immerse yourself in this all encompassing guide and transform your passion for CubeSats into a tangible rewarding endeavor Embrace the possibilities and embark on a journey that takes your communication capabilities to new heights

Managing Big Data in Cloud Computing Environments Ma, Zongmin, 2016-02-02 Cloud computing has proven to be a successful paradigm of service oriented computing and has revolutionized the way computing infrastructures are abstracted and used By means of cloud computing technology massive data can be managed effectively and efficiently to support various aspects of problem solving and decision making Managing Big Data in Cloud Computing Environments explores the latest advancements in the area of data management and analysis in the cloud Providing timely research based information relating to data storage sharing extraction and indexing in cloud

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