

Nosql Web Development With Apache Cassandra By Deepak Vohra

Nosql Web Development With Apache Cassandra By Deepak Vohra NoSQL Web Development with Apache Cassandra Unleashing the Power of Distributed Data This comprehensive guide delves into the world of NoSQL database technology and specifically explores the robust capabilities of Apache Cassandra empowering web developers to build scalable highperformance applications NoSQL Apache Cassandra web development database scalability highperformance distributed data data modeling query language application development best practices The landscape of modern web development is characterized by the everincreasing demand for scalable and highperformance applications capable of handling massive amounts of data Traditional relational databases often struggle to meet these demands Enter NoSQL a paradigm shift in data management offering flexible data models distributed architectures and unparalleled scalability Apache Cassandra a leading NoSQL database stands out for its reliability high availability and seamless horizontal scaling This book provides a thorough exploration of Apache Cassandra equipping web developers with the knowledge and skills needed to design develop and deploy powerful applications leveraging this powerful technology Dive into the world of NoSQL and Apache Cassandra This book is your comprehensive guide to mastering NoSQL web development with Apache Cassandra It covers essential concepts practical techniques and realworld applications empowering you to Unravel the intricacies of NoSQL Understand the fundamental principles of NoSQL databases contrasting them with traditional relational databases Master the power of Apache Cassandra Explore the architecture features and capabilities of Apache Cassandra understanding its strengths and limitations Embrace the flexibility of data modeling Learn how to design effective data models tailored for the unique characteristics of NoSQL and Apache Cassandra Craft powerful query solutions Master the Cassandra Query Language CQL enabling you to 2 efficiently retrieve and manipulate data within your applications Build robust and scalable

applications Learn how to leverage Apache Cassandras distributed nature to create applications capable of handling massive data volumes and user traffic Implement best practices for Cassandra development Discover key strategies for optimizing performance ensuring data consistency and maximizing the efficiency of your Cassandra deployments Explore realworld use cases Gain insights from practical examples illustrating how Apache Cassandra excels in diverse applications like social media ecommerce and realtime analytics Beyond the basics This book goes beyond the surface level delving into advanced topics like Data consistency and replication strategies Understand the tradeoffs between consistency and performance and how to choose the right replication approach for your applications Performance optimization and tuning Learn how to analyze Cassandra performance identify bottlenecks and optimize your database configurations for optimal efficiency Integration with other technologies Explore the integration of Apache Cassandra with various technologies like Java Python and frameworks like Spring Boot and Nodejs Security and data management Discover strategies for securing your Cassandra data implementing proper access controls and ensuring data integrity This book is your comprehensive resource whether you are A web developer looking to expand your skillset and embrace NoSQL technology A developer seeking to leverage the power of Apache Cassandra for building high performance applications A data professional interested in exploring the potential of NoSQL databases for efficient data management ThoughtProvoking Conclusion As the world of data continues to explode the need for scalable reliable and flexible data management solutions grows exponentially NoSQL databases like Apache Cassandra are at the forefront of this evolution providing a powerful and adaptable approach to handling data challenges in the modern web By embracing the power of Apache Cassandra you gain access to a world of possibilities unlocking new levels of scalability performance and innovation in your web development endeavors This book serves as your gateway to this exciting world empowering you to create nextgeneration web applications capable of 3 handling any data challenge Frequently Asked Questions FAQs 1 Is NoSQL suitable for all applications While NoSQL offers tremendous benefits for certain types of applications its not a onesize fitsall solution Applications requiring complex joins extensive transactional integrity or ACID properties may be better suited to traditional relational databases 2 What makes Apache Cassandra stand out among NoSQL databases

Apache Cassandra excels in its ability to handle massive data volumes providing high availability linear scalability and a flexible data model. It is a reliable choice for demanding applications requiring high performance and fault tolerance.

3 Can I integrate Apache Cassandra with my existing applications? Yes, Apache Cassandra can be integrated with various technologies and frameworks. You can connect to it using popular languages like Java, Python, and Node.js, enabling integration with your existing systems.

4 How does Apache Cassandra handle data consistency? Cassandra offers different consistency levels, allowing you to trade off performance for data consistency. Choosing the right level depends on your application's specific needs and tolerance for eventual consistency.

5 What are the future trends in NoSQL and Apache Cassandra? The NoSQL landscape is constantly evolving. Future trends include increased adoption of cloud-based NoSQL services, advancements in data analytics capabilities, and enhanced integration with other technologies. Apache Cassandra continues to innovate with features like advanced security, improved performance, and expanded querying capabilities.

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build manage and configure high performing reliable nosql database for your applications with cassandra key featureswrite programs more efficiently using cassandra s features with the help of examplesconfigure cassandra and fine tune its parameters depending on your needsintegrate cassandra database with apache spark and build strong data analytics pipelinebook description with ever increasing rates of data creation the demand for storing data fast and reliably becomes a need apache cassandra is the perfect choice for building fault tolerant and scalable databases mastering apache cassandra 3 x teaches you how to build and architect your clusters configure and work with your nodes and program in a high throughput environment helping you understand the power of cassandra as per the new features once you ve covered a brief recap of the basics you ll move on to deploying and monitoring a production setup and optimizing and integrating it with other software you ll work with the advanced features of cql and the new storage engine in order to understand how they function on the server side you ll explore the integration and interaction of cassandra components followed by discovering features such as token allocation algorithm cql3 vnodes lightweight transactions and data modelling in detail last but not least you will get to grips with apache spark by the end of this book you ll be able to analyse big data and build and manage high performance databases for your application what you will learnwrite programs more efficiently using cassandra s features more efficientlyexploit the given infrastructure improve performance and tweak the java virtual machine jvm use cql3 in your application in order to simplify working with cassandraconfigure cassandra and fine tune its parameters depending on your needsset up a cluster and learn how to scale itmonitor a cassandra cluster in different waysuse apache spark and other big data processing toolswho this book is for mastering apache cassandra 3 x is for you if you are a big data administrator

database administrator architect or developer who wants to build a high performing scalable and fault tolerant database prior knowledge of core concepts of databases is required

follow this handbook to build configure tune and secure apache cassandra databases start with the installation of cassandra and move on to the creation of a single instance and then a cluster of cassandra databases cassandra is increasingly a key player in many big data environments and this book shows you how to use cassandra with apache spark a popular big data processing framework also covered are day to day topics of importance such as the backup and recovery of cassandra databases using the right compression and compaction strategies and loading and unloading data expert apache cassandra administration provides numerous step by step examples starting with the basics of a cassandra database and going all the way through backup and recovery performance optimization and monitoring and securing the data the book serves as an authoritative and comprehensive guide to the building and management of simple to complex cassandra databases the book takes you through building a cassandra database from installation of the software and creation of a single database through to complex clusters and data centers provides numerous examples of actual commands in a real life cassandra environment that show how to confidently configure manage troubleshoot and tune cassandra databases shows how to use the cassandra configuration properties to build a highly stable available and secure cassandra database that always operates at peak efficiency what you will learn install the cassandra software and create your first database understand the cassandra data model and the internal architecture of a cassandra database create your own cassandra cluster step by step run a cassandra cluster on docker work with apache spark by connecting to a cassandra database deploy cassandra clusters in your data center or on amazon ec2 instances back up and restore mission critical cassandra databases monitor troubleshoot and tune production cassandra databases and cut your spending on resources such as memory servers and storage who this book is for database administrators developers and architects who are looking for an authoritative and comprehensive single volume for all their cassandra administration needs also for administrators who are tasked with setting up and maintaining highly reliable and high performing cassandra databases an excellent choice for big data administrators database administrators

architects and developers who use cassandra as their key data store to support high volume online transactions or as a decentralized elastic data store

if you re an application developer familiar with sql databases such as mysql or postgres and you want to explore distributed databases such as cassandra this is the perfect guide for you even if you ve never worked with a distributed database before cassandra s intuitive programming interface coupled with the step by step examples in this book will have you building highly scalable persistence layers for your applications in no time

beginning apache cassandra development introduces you to one of the most robust and best performing nosql database platforms on the planet apache cassandra is a document database following the json document model it is specifically designed to manage large amounts of data across many commodity servers without there being any single point of failure this design approach makes apache cassandra a robust and easy to implement platform when high availability is needed apache cassandra can be used by developers in java php python and javascript the primary and most commonly used languages in beginning apache cassandra development author and cassandra expert vivek mishra takes you through using apache cassandra from each of these primary languages mishra also covers the cassandra query language cql the apache cassandra analog to sql you ll learn to develop applications sourcing data from cassandra query that data and deliver it at speed to your application s users cassandra is one of the leading nosql databases meaning you get unparalleled throughput and performance without the sort of processing overhead that comes with traditional proprietary databases beginning apache cassandra development will therefore help you create applications that generate search results quickly stand up to high levels of demand scale as your user base grows ensure operational simplicity and not least provide delightful user experiences

eric and russell were early adopters of cassandra at simplereach in practical cassandra you benefit from their experience in the trenches

administering cassandra developing against it and building one of the first cql drivers if you are deploying cassandra soon or you inherited a cassandra cluster to tend spend some time with the deployment performance tuning and maintenance chapters if you are new to cassandra i highly recommend the chapters on data modeling and cql from the foreword by jonathon ellis apache cassandra chair build and deploy massively scalable super fast data management applications with apache cassandra practical cassandra is the first hands on developer s guide to building cassandra systems and applications that deliver breakthrough speed scalability reliability and performance fully up to date it reflects the latest versions of cassandra including cassandra query language cql which dramatically lowers the learning curve for cassandra developers pioneering cassandra developers and datastax mvps russell bradberry and eric lubow walk you through every step of building a real production application that can store enormous amounts of structured semi structured and unstructured data drawing on their exceptional expertise bradberry and lubow share practical insights into issues ranging from querying to deployment management maintenance monitoring and troubleshooting the authors cover key issues from architecture to migration and guide you through crucial decisions about configuration and data modeling they provide tested sample code detailed explanations of how cassandra works under the covers and new case studies from three cutting edge users ooyala hailo and ebay coverage includes understanding cassandra s approach architecture key concepts and primary use cases and why it s so blazingly fast getting cassandra up and running on single nodes and large clusters applying the new design patterns philosophies and features that make cassandra such a powerful data store leveraging cql to simplify your transition from sql based rdbmses deploying and provisioning through the cloud or on bare metal hardware choosing the right configuration options for each type of workload tweaking cassandra to get maximum performance from your hardware os and jvm mastering cassandra s essential tools for maintenance and monitoring efficiently solving the most common problems with cassandra deployment operation and application development

achieve scalability and high availability without compromising on performance about this book see how to get 100 percent uptime with your cassandra applications using this easy follow guide learn how to avoid common and not so common mistakes while working with cassandra

using this highly practical guide get familiar with the intricacies of working with cassandra for high availability in your work environment with this go to guide who this book is for if you are a developer or devops engineer who has basic familiarity with cassandra and you want to become an expert at creating highly available fault tolerant systems using cassandra this book is for you what you will learn understand how the core architecture of cassandra enables highly available applications use replication and tunable consistency levels to balance consistency availability and performance set up multiple data centers to enable failover load balancing and geographic distribution add capacity to your cluster with zero downtime take advantage of high availability features in the native driver create data models that scale well and maximize availability understand common anti patterns so you can avoid them keep your system working well even during failure scenarios in detail apache cassandra is a massively scalable peer to peer database designed for 100 percent uptime with deployments in the tens of thousands of nodes all supporting petabytes of data this book offers a practical insight into building highly available real world applications using apache cassandra the book starts with the fundamentals helping you to understand how apache cassandra s architecture allows it to achieve 100 percent uptime when other systems struggle to do so you ll get an excellent understanding of data distribution replication and cassandra s highly tunable consistency model then we take an in depth look at cassandra s robust support for multiple data centers and you ll see how to scale out a cluster next the book explores the domain of application design with chapters discussing the native driver and data modeling lastly you ll find out how to steer clear of common anti patterns and take advantage of cassandra s ability to fail gracefully style and approach this practical guide will get you implementing cassandra right from the design to creating highly available systems through a systematic step by step approach you will learn different aspects of building highly available cassandra applications and all this with the help of easy to follow examples tips and tricks

build a scalable fault tolerant and highly available data layer for your applications using apache cassandra about this book install cassandra and set up multi node clusters design rich schemas that capture the relationships between different data types master the advanced features available in cassandra 3 x through a step by step tutorial and build a scalable high performance database layer who this book is for if you are

a nosql developer and new to apache cassandra who wants to learn its common as well as not so common features this book is for you alternatively a developer wanting to enter the world of nosql will find this book useful it does not assume any prior experience in coding or any framework what you will learn install cassandra create keyspaces and tables with multiple clustering columns to organize related data use secondary indexes and materialized views to avoid denormalization of data effortlessly handle concurrent updates with collection columns ensure data integrity with lightweight transactions and logged batches understand eventual consistency and use the right consistency level for your situation understand data distribution with cassandra develop simple application using java driver and implement application level optimizations in detail cassandra is a distributed database that stands out thanks to its robust feature set and intuitive interface while providing high availability and scalability of a distributed data store this book will introduce you to the rich feature set offered by cassandra and empower you to create and manage a highly scalable performant and fault tolerant database layer the book starts by explaining the new features implemented in cassandra 3.x and get you set up with cassandra then you'll walk through data modeling in cassandra and the rich feature set available to design a flexible schema next you'll learn to create tables with composite partition keys collections and user defined types and get to know different methods to avoid denormalization of data you will then proceed to create user defined functions and aggregates in cassandra then you will set up a multi node cluster and see how the dynamics of cassandra change with it finally you will implement some application level optimizations using a java client by the end of this book you'll be fully equipped to build powerful scalable cassandra database layers for your applications style and approach this book takes a step by step approach to give you basic to intermediate knowledge of apache cassandra every concept is explained in depth and is supplemented with practical examples when required

unleash the power of distributed database for scalable and high performance applications are you ready to explore the world of distributed databases and unlock the potential of apache cassandra mastering apache cassandra is your comprehensive guide to understanding and harnessing the capabilities of cassandra for building scalable and high performance applications whether you're a database administrator

seeking to optimize performance or a developer aiming to create resilient data driven solutions this book equips you with the knowledge and tools to master the art of cassandra database management key features

- 1 deep dive into cassandra immerse yourself in the core principles of apache cassandra understanding its architecture data model and distributed nature build a solid foundation that empowers you to manage data effectively in distributed environments
- 2 installation and configuration master the art of installing and configuring cassandra on various platforms learn about cluster setup node communication and replication strategies for fault tolerance
- 3 cassandra query language cql uncover the power of cql for interacting with cassandra databases explore data definition manipulation and querying using cql s intuitive syntax
- 4 data modeling delve into effective data modeling for cassandra learn about tables primary keys composite keys and denormalization strategies to optimize data retrieval and storage
- 5 distributed data management discover techniques for managing distributed data effectively explore concepts like consistency levels replication factor and data partitioning for maintaining data integrity
- 6 performance tuning and optimization explore strategies for optimizing cassandra performance learn about compaction read and write paths caching and tuning settings to achieve low latency responses
- 7 high availability and failover master the art of ensuring high availability in cassandra clusters learn about replication strategies data repair and handling node failures to maintain continuous data access
- 8 security and authentication explore security features and best practices in cassandra learn how to implement authentication authorization and encryption to protect your data
- 9 batch processing and analytics uncover strategies for performing batch processing and analytics with cassandra learn how to integrate with tools like apache spark and execute complex queries
- 10 real world applications gain insights into real world use cases of cassandra across industries from e commerce to finance explore how organizations are leveraging cassandra s capabilities for innovation

who this book is for mastering apache cassandra is an indispensable resource for database administrators developers and it professionals who want to excel in managing cassandra databases whether you re new to cassandra or seeking advanced techniques this book will guide you through the intricacies and empower you to harness the full potential of distributed data management

imagine what you could do if scalability wasn t a problem with this hands on guide you ll learn how the cassandra database management

system handles hundreds of terabytes of data while remaining highly available across multiple data centers this third edition updated for cassandra 4.0 provides the technical details and practical examples you need to put this database to work in a production environment authors jeff carpenter and eben hewitt demonstrate the advantages of cassandra's nonrelational design with special attention to data modeling if you're a developer dba or application architect looking to solve a database scaling issue or future proof your application this guide helps you harness cassandra's speed and flexibility understand cassandra's distributed and decentralized structure use the cassandra query language cql and cqlsh the cql shell create a working data model and compare it with an equivalent relational model develop sample applications using client drivers for languages including java python and node.js explore cluster topology and learn how nodes exchange data

build manage and configure high performing reliable nosql database for your applications with cassandra key features write programs more efficiently using cassandra's features with the help of examples configure cassandra and fine tune its parameters depending on your needs integrate cassandra database with apache spark and build strong data analytics pipeline book description with ever increasing rates of data creation the demand for storing data fast and reliably becomes a need apache cassandra is the perfect choice for building fault tolerant and scalable databases mastering apache cassandra 3.x teaches you how to build and architect your clusters configure and work with your nodes and program in a high throughput environment helping you understand the power of cassandra as per the new features once you've covered a brief recap of the basics you'll move on to deploying and monitoring a production setup and optimizing and integrating it with other software you'll work with the advanced features of cql and the new storage engine in order to understand how they function on the server side you'll explore the integration and interaction of cassandra components followed by discovering features such as token allocation algorithm cql3 vnodes lightweight transactions and data modelling in detail last but not least you will get to grips with apache spark by the end of this book you'll be able to analyse big data and build and manage high performance databases for your application what you will learn write programs more efficiently using cassandra's features more efficiently exploit the given infrastructure improve performance and tweak

the java virtual machine jvm use cql3 in your application in order to simplify working with cassandra configure cassandra and fine tune its parameters depending on your needs set up a cluster and learn how to scale it monitor a cassandra cluster in different ways use apache spark and other big data processing tools who this book is for mastering apache cassandra 3 x is for you if you are a big data administrator database administrator architect or developer who wants to build a high performing scalable and fault tolerant database prior knowledge of core concepts of databases is required

what could you do with data if scalability wasn't a problem with this hands on guide you'll learn how apache cassandra handles hundreds of terabytes of data while remaining highly available across multiple data centers capabilities that have attracted facebook twitter and other data intensive companies cassandra the definitive guide provides the technical details and practical examples you need to assess this database management system and put it to work in a production environment author eben hewitt demonstrates the advantages of cassandra's nonrelational design and pays special attention to data modeling if you're a developer dba application architect or manager looking to solve a database scaling issue or future proof your application this guide shows you how to harness cassandra's speed and flexibility understand the tenets of cassandra's column oriented structure learn how to write update and read cassandra data discover how to add or remove nodes from the cluster as your application requires examine a working application that translates from a relational model to cassandra's data model use examples for writing clients in java python and c use the jmx interface to monitor a cluster's usage memory patterns and more tune memory settings data storage and caching for better performance

about professional certification of apache cassandra apache cassandra is one of the most popular nosql database currently being used by many of the organization globally in every industry like aviation finance retail social networking etc it proves that there is quite a huge demand for certified cassandra professionals having certification make your selection in the company much easier this certification is conducted by the datastax which has the enterprise version of the apache cassandra and leader in providing support for the open source

apache cassandra nosql database cassandra is one of the unique nosql database so go for its certification it will certainly help in getting the job increase in your salary growth in your career managing tera bytes of data learning distributed database using cql cassandra query language cassandra certification information number of questions 60 multiple choice time allowed in minutes 90 required passing score 75 languages english exam objectives there are in total 5 sections and you will be asked total 60 questions in real exam please check each section below with regards to the exam objective 1 apache cassandra data modeling 2 fundamentals of replication and consistency 3 the distributed and internal architecture of apache cassandra 4 installation and configuration 5 basic tooling

create your own massively scalable cassandra database with highly responsive database queries about this book create a cassandra cluster and tweak its configuration to get the best performance based on your environment analyze the key concepts and architecture of cassandra which are essential to create highly responsive cassandra databases a fast paced and step by step guide on handling huge amount of data and getting the best out of your database applications who this book is for if you are a developer who is working with cassandra and you want to deep dive into the core concepts and understand cassandra s non relational nature then this book is for you a basic understanding of cassandra is expected what you will learn install and set up your cassandra cluster using various installation types use cassandra query language cql to design cassandra database and tables with various configuration options design your cassandra database to be evenly loaded with the lowest read write latencies employ the available cassandra tools to monitor and maintain a cassandra cluster debug cql queries to discover why they are performing relatively slowly choose the best suited compaction strategy for your database based on your usage pattern tune cassandra based on your deployment operation system environment in detail apache cassandra essentials takes you step by step from from the basics of installation to advanced installation options and database design techniques it gives you all the information you need to effectively design a well distributed and high performance database you ll get to know about the steps that are performed by a cassandra node when you execute a read write query which is essential to properly maintain of a cassandra cluster and to debug any issues next you ll discover how to integrate a cassandra driver in your applications and perform read write operations finally you ll

learn about the various tools provided by cassandra for serviceability aspects such as logging metrics backup and recovery style and approach this step by step guide is packed with examples that explain the core concepts as well as advanced concepts techniques and usages of apache cassandra

follow this handbook to build configure tune and secure apache cassandra databases start with the installation of cassandra and move on to the creation of a single instance and then a cluster of cassandra databases cassandra is increasingly a key player in many big data environments and this book shows you how to use cassandra with apache spark a popular big data processing framework also covered are day to day topics of importance such as the backup and recovery of cassandra databases using the right compression and compaction strategies and loading and unloading data expert apache cassandra administration provides numerous step by step examples starting with the basics of a cassandra database and going all the way through backup and recovery performance optimization and monitoring and securing the data the book serves as an authoritative and comprehensive guide to the building and management of simple to complex cassandra databases the book takes you through building a cassandra database from installation of the software and creation of a single database through to complex clusters and data centers provides numerous examples of actual commands in a real life cassandra environment that show how to confidently configure manage troubleshoot and tune cassandra databases shows how to use the cassandra configuration properties to build a highly stable available and secure cassandra database that always operates at peak efficiency what you ll learn install the cassandra software and create your first database understand the cassandra data model and the internal architecture of a cassandra database create your own cassandra cluster step by step run a cassandra cluster on docker work with apache spark by connecting to a cassandra database deploy cassandra clusters in your data center or on amazon ec2 instances back up and restore mission critical cassandra databases monitor troubleshoot and tune production cassandra databases and cut your spending on resources such as memory servers and storage

the book is aimed at intermediate developers with an understanding of core database concepts who want to become a master at implementing cassandra for their application

mastering apache cassandra is a practical hands on guide with step by step instructions the smooth and easy tutorial approach focuses on showing people how to utilize cassandra to its full potential this book is aimed at intermediate cassandra users it is best suited for startups where developers have to wear multiple hats programmer devops release manager convincing clients and handling failures no prior knowledge of cassandra is required

imagine what you could do if scalability wasn't a problem with this hands on guide you'll learn how the cassandra database management system handles hundreds of terabytes of data while remaining highly available across multiple data centers this revised third edition updated for cassandra 4.0 and new developments in the cassandra ecosystem including deployments in kubernetes with k8ssandra provides technical details and practical examples to help you put this database to work in a production environment authors jeff carpenter and eben hewitt demonstrate the advantages of cassandra's nonrelational design with special attention to data modeling developers dbas and application architects looking to solve a database scaling issue or future proof an application will learn how to harness cassandra's speed and flexibility understand cassandra's distributed and decentralized structure use the cassandra query language cql and cqlsh the cql shell create a working data model and compare it with an equivalent relational model design and develop applications using client drivers explore cluster topology and learn how nodes exchange data maintain a high level of performance in your cluster deploy cassandra onsite in the cloud or with docker and kubernetes integrate cassandra with spark kafka elasticsearch solr and lucene

there has never been a apache cassandra guide like this it contains 41 answers much more than you can imagine comprehensive answers and extensive details and references with insights that have never before been offered in print get the information you need fast this all

embracing guide offers a thorough view of key knowledge and detailed insight this guide introduces what you want to know about apache cassandra a quick look inside of some of the subjects covered distributed hash table examples dynamo storage system implementations nosql kv eventually consistent apache cassandra clustering nosql taxonomy apache cassandra licensing and support voldemort distributed data store project voldemort toad software supported databases and environments list of relational database management systems list of software facebook inc open source contributions snappy software database 2000s nosql and newsql databases apache cassandra prominent users apache cassandra history apache cassandra tools for cassandra apache cassandra history digg history cloudkick technology datastax column data store usage hazelcast reddit technology drizzle database server replication apache cassandra clustering apache cassandra tools for cassandra cassandra database history ooyala products database management system 2000s nosql and newsql databases comparison of structured storage software nosql nosql databases on the cloud high availability cluster failover strategies appscale bigtable other similar software bloom filter examples apache gora datastores supported cloud database data model apache cassandra licensing and support mindtouch development history database 2000s nosql and newsql and much more

apache cassandra is an open source distributed database system noted for its consistency its ability to run on commodity hardware and its easy deployment to cloud infrastructure with cassandra succinctly by marko svaljek you will learn the architecture behind cassandra that makes it a reliable system including how hashes are used to identify where data is stored how choosing the right replication factor can enhance or hinder performance and how the system handles updating and deleting data by the end of the book you will be able to store and model data using the cassandra query language and use cassandra within your own applications

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Introduction

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