

# Hbase Administration Cookbook

Hbase Administration Cookbook Hadoop 2.x Administration Cookbook Intelligent Systems and Applications Big Data Optimization: Recent Developments and Challenges HBase High Performance Cookbook IBM DB2 9.7 Advanced Administration Cookbook Apache Spark 2.x Machine Learning Cookbook Seven NoSQL Databases in a Week Yifeng Jiang Gurmukh Singh W.C.-C. Chu Ali Emrouznejad Ruchir Choudhry Adrian Neagu Siamak Amirghodsi Xun (Brian) Wu

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as part of packt's cookbook series each recipe offers a practical step by step solution to common problems found in hbase administration this book is for hbase administrators developers and will even help hadoop administrators you are not required to have hbase experience but are expected to have a basic understanding of hadoop and mapreduce

over 100 practical recipes to help you become an expert hadoop administrator about this book become an expert hadoop administrator and perform tasks to optimize your hadoop cluster import and export data into hive and use oozie to manage workflow practical recipes will help you plan and secure your hadoop cluster and make it highly available who this book is for if you are a system administrator with a basic understanding of hadoop and you want to get into hadoop administration this book is for you it's also ideal if you are a hadoop administrator who wants a quick reference guide to all the hadoop administration related tasks and solutions to commonly occurring problems what you will learn set up the hadoop architecture to run a hadoop cluster smoothly maintain a hadoop cluster on hdfs yarn and mapreduce understand high availability with zookeeper and journal node configure flume for data ingestion and oozie to run various workflows tune the hadoop cluster for optimal performance schedule jobs on a hadoop cluster using the fair and capacity scheduler secure your cluster and troubleshoot it for various common pain points in detail hadoop enables the distributed storage and processing of large datasets across clusters of computers learning how to administer hadoop is crucial to exploit its unique features with this book you will be able to overcome common problems encountered in hadoop administration the book begins with laying the foundation by showing you the steps needed to set up a hadoop cluster and its various nodes you will get a better understanding of how to maintain hadoop cluster especially on the hdfs layer and using yarn and mapreduce further on you will explore durability and high availability of a hadoop cluster you'll get a better understanding of the schedulers in hadoop and how to configure and use them for your tasks you will also get

hands on experience with the backup and recovery options and the performance tuning aspects of hadoop finally you will get a better understanding of troubleshooting diagnostics and best practices in hadoop administration by the end of this book you will have a proper understanding of working with hadoop clusters and will also be able to secure encrypt it and configure auditing for your hadoop clusters style and approach this book contains short recipes that will help you run a hadoop cluster efficiently the recipes are solutions to real life problems that administrators encounter while working with a hadoop cluster

this book presents the proceedings of the international computer symposium 2014 ics 2014 held at tunghai university taichung taiwan in december ics is a biennial symposium founded in 1973 and offers a platform for researchers educators and professionals to exchange their discoveries and practices to share research experiences and to discuss potential new trends in the ict industry topics covered in the ics 2014 workshops include algorithms and computation theory artificial intelligence and fuzzy systems computer architecture embedded systems soc and vlsi eda cryptography and information security databases data mining big data and information retrieval mobile computing wireless communications and vehicular technologies software engineering and programming languages healthcare and bioinformatics among others there was also a workshop on information technology innovation industrial application and the internet of things ics is one of taiwan s most prestigious international it symposiums and this book will be of interest to all those involved in the world of information technology

the main objective of this book is to provide the necessary background to work with big data by introducing some novel optimization algorithms and codes capable of working in the big data setting as well as introducing some applications in big data optimization for both academics and practitioners interested and to benefit society industry academia and government presenting applications in a variety of industries this book will be useful for the researchers aiming to analyses large scale data several optimization algorithms for big data including convergent parallel algorithms limited memory bundle algorithm diagonal bundle method convergent parallel algorithms network analytics and many more have been explored in this book

exciting projects that will teach you how complex data can be exploited to gain maximum insights about this book architect a good hbase cluster for a very large distributed system get to grips with the concepts of performance tuning with hbase a practical guide full of engaging recipes and attractive screenshots to enhance your system s performance who this book is for this book is intended for developers and architects who want to know all about hbase at a hands on level this book is also for big data enthusiasts and database developers who have worked with other nosql databases and now want to explore hbase as another futuristic scalable database solution in the big data space what you will learn configure hbase from a high performance perspective grab data from various rdbms flat files into the hbase systems understand table design and perform crud operations find out how the communication between the client and server happens in hbase grasp when to use and avoid mapreduce and how to perform various tasks with it get to know the concepts of scaling with hbase through practical examples set up hbase in the cloud for a small scale environment integrate hbase with other tools including elasticsearch in detail apache hbase is a non relational nosql database management system that runs on top of hdfs it is an open source distributed versioned column oriented store and is written in java to provide random real time access to big data

we'll start off by ensuring you have a solid understanding the basics of hbase followed by giving you a thorough explanation of architecting a hbase cluster as per our project specifications next we will explore the scalable structure of tables and we will be able to communicate with the hbase client after this we'll show you the intricacies of mapreduce and the art of performance tuning with hbase following this we'll explain the concepts pertaining to scaling with hbase finally you will get an understanding of how to integrate hbase with other tools such as elasticsearch by the end of this book you will have learned enough to exploit hbase for boost system performance style and approach this book is intended for software quality assurance testing professionals software project managers or software developers with prior experience in using selenium and java to test web based applications this books also provides examples for c python and ruby users

this is a practical hands on book with clear instructions and lot of code examples it takes a simple approach guiding you through different architectural topics using realistic sample projects

simplify machine learning model implementations with spark about this book solve the day to day problems of data science with spark this unique cookbook consists of exciting and intuitive numerical recipes optimize your work by acquiring cleaning analyzing predicting and visualizing your data who this book is for this book is for scala developers with a fairly good exposure to and understanding of machine learning techniques but lack practical implementations with spark a solid knowledge of machine learning algorithms is assumed as well as hands on experience of implementing ml algorithms with scala however you do not need to be acquainted with the spark ml libraries and ecosystem what you will learn get to know how scala and spark go hand in hand for developers when developing ml systems with spark build a recommendation engine that scales with spark find out how to build unsupervised clustering systems to classify data in spark build machine learning systems with the decision tree and ensemble models in spark deal with the curse of high dimensionality in big data using spark implement text analytics for search engines in spark streaming machine learning system implementation using spark in detail machine learning aims to extract knowledge from data relying on fundamental concepts in computer science statistics probability and optimization learning about algorithms enables a wide range of applications from everyday tasks such as product recommendations and spam filtering to cutting edge applications such as self driving cars and personalized medicine you will gain hands on experience of applying these principles using apache spark a resilient cluster computing system well suited for large scale machine learning tasks this book begins with a quick overview of setting up the necessary ides to facilitate the execution of code examples that will be covered in various chapters it also highlights some key issues developers face while working with machine learning algorithms on the spark platform we progress by uncovering the various spark apis and the implementation of ml algorithms with developing classification systems recommendation engines text analytics clustering and learning systems toward the final chapters we'll focus on building high end applications and explain various unsupervised methodologies and challenges to tackle when implementing with big data ml systems style and approach this book is packed with intuitive recipes supported with line by line explanations to help you understand how to optimize your work flow and resolve problems when working with complex data modeling tasks and predictive algorithms this is a valuable resource for data scientists and those working on large scale data projects

a beginner's guide to get you up and running with cassandra dynamodb hbase influxdb mongodb neo4j and redis key features covers the basics of 7 nosql databases and how they are used in the enterprises quick introduction to mongodb dynamodb redis cassandra neo4j influxdb and hbase includes effective techniques for database querying and management book description this is the golden age of open source nosql databases with enterprises having to work with large amounts of unstructured data and moving away from expensive monolithic architecture the adoption of nosql databases is rapidly increasing being familiar with the popular nosql databases and knowing how to use them is a must for budding dbas and developers this book introduces you to the different types of nosql databases and gets you started with seven of the most popular nosql databases used by enterprises today we start off with a brief overview of what nosql databases are followed by an explanation of why and when to use them the book then covers the seven most popular databases in each of these categories mongodb amazon dynamodb redis hbase cassandra influxdb and neo4j the book doesn't go into too much detail about each database but teaches you enough to get started with them by the end of this book you will have a thorough understanding of the different nosql databases and their functionalities empowering you to select and use the right database according to your needs what you will learn understand how mongodb provides high performance high availability and automatic scaling interact with your neo4j instances via database queries python scripts and java application code get familiar with common querying and programming methods to interact with redis study the different types of problems cassandra can solve work with hbase components to support common operations such as creating tables and reading writing data discover data models and work with crud operations using dynamodb discover what makes influxdb a great choice for working with time series data who this book is for if you are a budding dba or a developer who wants to get started with the fundamentals of nosql databases this book is for you relational dbas who want to get insights into the various offerings of popular nosql databases will also find this book to be very useful

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