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Hadoop Essentials

A Quantitative Approach

Henry H. Liu



Hadoop Essentials A Quantitative Approach

Karin Nielsen-Saines



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Hadoop Essentials Henry H. Liu, 2012-10-08 This textbook adopts a unique approach to helping developers and CS students learn Hadoop MapReduce programming fast Rather than filled with disjointed piecemeal code snippets to show Hadoop MapReduce programming features one at a time it is designed to place your total Hadoop MapReduce programming learning process in a common application context of mining customer spending patterns ensconced in large volumes of credit card transaction record data Precise end to end procedures are given to help you set up your Hadoop MapReduce development environment quickly on Eclipse with Maven on Mac OS X Step by step procedures are also given on how to set up a four node Linux cluster at minimum so that you can run your MapReduce programs not only in local mode on your Mac OS X machine but also in fully distributed mode on a real cluster In fact all MapReduce programs presented in the book have been tested and verified in local mode and on such a Linux cluster This textbook mainly focuses on teaching Hadoop MapReduce programming in a scientific objective quantitative approach Rather than heavily relying on subjective verbose and sometimes even pompous textual descriptions with sparse code snippets this textbook uses Hadoop Java APIs Hadoop configuration parameters complete MapReduce programs and their execution logs

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Hadoop For Dummies Dirk deRoos, 2014-04-14 Let Hadoop For Dummies help harness the power of your data and rein in the information overload Big data has become big business and companies and organizations of all sizes are struggling to find ways to retrieve valuable information from their massive data sets with becoming overwhelmed Enter Hadoop and this easy to understand For Dummies guide Hadoop For Dummies helps readers understand the value of big data make a business case for using Hadoop navigate the Hadoop ecosystem and build and manage Hadoop applications and clusters Explains the origins of Hadoop its economic benefits and its functionality and practical applications Helps you find your way around the Hadoop ecosystem program MapReduce utilize design patterns and get your Hadoop cluster up and running quickly and easily Details how to use Hadoop applications for data mining web analytics and personalization large scale text processing data science and problem solving Shows you how to improve the value of your Hadoop cluster maximize your investment in Hadoop and avoid common pitfalls when building your Hadoop cluster From programmers challenged with building and maintaining affordable scaleable data systems to administrators who must deal with huge volumes of information effectively and efficiently this how to has something to help you with Hadoop

Hadoop 2 Essentials Henry H. Liu, 2014-02-09 This textbook adopts a unique approach to helping developers and CS students learn Hadoop MapReduce programming fast in an easy to setup virtual 4 node Linux YARN cluster on a Windows laptop Rather than filled with disjointed piecemeal code snippets to show Hadoop MapReduce programming features one at a time it is designed to place your total Hadoop MapReduce programming learning process in a common application context of mining customer spending patterns ensconced in large volumes of credit card transaction record data Precise end to end procedures are given to help you set up your Hadoop MapReduce development environment quickly on Eclipse with Maven on Windows Step by step procedures are also given on how to set up a four node Linux cluster at minimum so that you can run your MapReduce programs not only in local but also in standalone and fully distributed mode on a real cluster In fact all MapReduce programs presented in the book have been tested and verified on such a Linux cluster This textbook mainly focuses on teaching Hadoop MapReduce programming in a scientific objective quantitative approach Rather than heavily relying on subjective verbose and sometimes even pompous textual descriptions with sparse code snippets this textbook uses Hadoop Java APIs Hadoop configuration parameters complete MapReduce programs and their execution logs and outputs to demonstrate how Hadoop MapReduce

framework works and how to write MapReduce programs Specifically this text covers the following subjects Introduction to Hadoop Setting up a Linux Hadoop Cluster The Hadoop Distributed FileSystem MapReduce Job Orchestration and Workflows Basic MapReduce Programming Advanced MapReduce Programming Hadoop Streaming Hadoop Administration No matter what role you play on your team this text can help you gain truly applicable Hadoop skills in a most effective and efficient manner The book can also be used as a supplementary textbook for a distributed computing or Hadoop course offered to upper division CS students

SOCIAL MEDIA AND WEB ANALYTICS Dr. Saroj Kumar ,Tripti Singh Chowdhury,2025-06-21
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Hadoop Essentials Shiva Achari,2015-04-29 If you are a system or application developer interested in learning how to solve practical problems using the Hadoop framework then this book is ideal for you This book is also meant for Hadoop professionals who want to find solutions to the different challenges they come across in their Hadoop projects

Instant MapReduce Patterns - Hadoop Essentials How-to Srinath Perera,2013 MapReduce is a technology that enables users to process large datasets and Hadoop is an implementation of MapReduce This book is a concise introduction to Hadoop and programming with MapReduce It is aimed to get you started and give you an overall feel for programming with Hadoop providing you with a well grounded foundation to understand and solve all of your MapReduce problems as needed

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Hdinsight Essentials - Second Edition Rajesh Nadipalli,2015-01-27 If you want to discover one of the latest tools designed to produce stunning Big Data insights this book features everything you need to get to grips with your data Whether you are a data architect developer or a business strategist HDInsight adds value in everything from development administration and reporting

Apache Hive Essentials Dayong Du,2018-06-30 This book takes you on a fantastic journey to discover the attributes of big data using Apache Hive Key Features Grasp the skills needed to write efficient Hive queries to analyze the Big Data Discover how Hive can coexist and work with other tools within the Hadoop ecosystem Uses practical example oriented scenarios to cover all the newly released features of Apache Hive 2 3 3 Book Description In this book we prepare you for your journey into big data by firstly introducing you to backgrounds in the big data domain alongwith the process of setting up and getting familiar with your Hive working environment Next the book guides you through discovering and transforming the values of big data with the help of examples It also hones your skills in using the Hive language in an efficient manner Toward the end the book focuses on advanced topics such as performance security and extensions in Hive which will guide you on exciting adventures on this worthwhile big data journey By the end of the book you will be familiar

with Hive and able to work effeciently to find solutions to big data problems What you will learn Create and set up the Hive environment Discover how to use Hive s definition language to describe data Discover interesting data by joining and filtering datasets in Hive Transform data by using Hive sorting ordering and functions Aggregate and sample data in different ways Boost Hive query performance and enhance data security in Hive Customize Hive to your needs by using user defined functions and integrate it with other tools Who this book is for If you are a data analyst developer or simply someone who wants to quickly get started with Hive to explore and analyze Big Data in Hadoop this is the book for you Since Hive is an SQL like language some previous experience with SQL will be useful to get the most out of this book **Instant Mapreduce Patterns - Hadoop Essentials How-To** Srinath Perera,2013-05-22 Filled with practical step by step instructions and clear explanations for the most important and useful tasks This is a Packt Instant How to guide which provides concise and clear recipes for getting started with Hadoop This book is for big data enthusiasts and would be Hadoop programmers It is also meant for Java programmers who either have not worked with Hadoop at all or who know Hadoop and MapReduce but are not sure how to deepen their understanding *Hadoop in 24 Hours, Sams Teach Yourself* Jeffrey Aven,2017-04-07 Apache Hadoop is the technology at the heart of the Big Data revolution and Hadoop skills are in enormous demand Now in just 24 lessons of one hour or less you can learn all the skills and techniques you ll need to deploy each key component of a Hadoop platform in your local environment or in the cloud building a fully functional Hadoop cluster and using it with real programs and datasets Each short easy lesson builds on all that s come before helping you master all of Hadoop s essentials and extend it to meet your unique challenges Apache Hadoop in 24 Hours Sams Teach Yourself covers all this and much more Understanding Hadoop and the Hadoop Distributed File System HDFS Importing data into Hadoop and process it there Mastering basic MapReduce Java programming and using advanced MapReduce API concepts Making the most of Apache Pig and Apache Hive Implementing and administering YARN Taking advantage of the full Hadoop ecosystem Managing Hadoop clusters with Apache Ambari Working with the Hadoop User Environment HUE Scaling securing and troubleshooting Hadoop environments Integrating Hadoop into the enterprise Deploying Hadoop in the cloud Getting started with Apache Spark Step by step instructions walk you through common questions issues and tasks Q and As Quizzes and Exercises build and test your knowledge Did You Know tips offer insider advice and shortcuts and Watch Out alerts help you avoid pitfalls By the time you re finished you ll be comfortable using Apache Hadoop to solve a wide spectrum of Big Data problems HDInsight Essentials - Second Edition Rajesh Nadipalli,2015-01-27 If you want to discover one of the latest tools designed to produce stunning Big Data insights this book features everything you need to get to grips with your data Whether you are a data architect developer or a business strategist HDInsight adds value in everything from development administration and reporting Practical Data Science with Hadoop and Spark Ofer Mendelevitch,Casey Stella,Douglas Eadline,2016-12-08 The Complete Guide to Data Science with Hadoop For Technical Professionals

Businesspeople and Students Demand is soaring for professionals who can solve real data science problems with Hadoop and Spark Practical Data Science with Hadoop and Spark is your complete guide to doing just that Drawing on immense experience with Hadoop and big data three leading experts bring together everything you need high level concepts deep dive techniques real world use cases practical applications and hands on tutorials The authors introduce the essentials of data science and the modern Hadoop ecosystem explaining how Hadoop and Spark have evolved into an effective platform for solving data science problems at scale In addition to comprehensive application coverage the authors also provide useful guidance on the important steps of data ingestion data munging and visualization Once the groundwork is in place the authors focus on specific applications including machine learning predictive modeling for sentiment analysis clustering for document analysis anomaly detection and natural language processing NLP This guide provides a strong technical foundation for those who want to do practical data science and also presents business driven guidance on how to apply Hadoop and Spark to optimize ROI of data science initiatives Learn What data science is how it has evolved and how to plan a data science career How data volume variety and velocity shape data science use cases Hadoop and its ecosystem including HDFS MapReduce YARN and Spark Data importation with Hive and Spark Data quality preprocessing preparation and modeling Visualization surfacing insights from huge data sets Machine learning classification regression clustering and anomaly detection Algorithms and Hadoop tools for predictive modeling Cluster analysis and similarity functions Large scale anomaly detection NLP applying data science to human language

Hadoop 2 Quick-start Guide Doug Eadline,2016

Hbase Essentials Nishant Garg,2014-08-29 This book is intended for developers and Big Data engineers who want to know all about HBase at a hands on level For in depth understanding it would be helpful to have a bit of familiarity with HDFS and MapReduce programming concepts with no prior experience with HBase or similar technologies 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

Sams Teach Yourself Hadoop in 24 Hours Jeffrey Aven,2017 Apache Hadoop is the technology at the heart of the Big Data revolution and Hadoop skills are in enormous demand Now in just 24 lessons of one hour or less students can learn all the skills and techniques they ll need to deploy each key component of a Hadoop platform in a local environment or in the cloud building a fully functional Hadoop cluster and using it with real programs and datasets Each short easy lesson builds on all that s come before helping students master all of Hadoop s essentials and extend it to meet real world challenges Apache Hadoop in 24 Hours Sams Teach Yourself covers all this and much more Understanding Hadoop and the Hadoop Distributed File System HDFS Importing data into Hadoop and process it there Mastering basic MapReduce Java programming and using advanced MapReduce API concepts Making the most of Apache Pig and Apache Hive Implementing and administering YARN Taking advantage of the full Hadoop ecosystem Managing Hadoop clusters with Apache Ambari Working with the Hadoop User Environment HUE Scaling

securing and troubleshooting Hadoop environments Integrating Hadoop into the enterprise Deploying Hadoop in the cloud Getting started with Apache Spark Step by step instructions walk students through common questions issues and tasks Q and As Quizzes and Exercises build and test your knowledge Did You Know tips offer insider advice and shortcuts and Watch Out alerts help avoid pitfalls By the time they re finished they ll be comfortable using Apache Hadoop to solve a wide spectrum of Big Data problems

Apache Mahout Essentials Jayani Withanawasam,2015-06-19 Apache Mahout is a scalable machine learning library with algorithms for clustering classification and recommendations It empowers users to analyze patterns in large diverse and complex datasets faster and more scalably This book is an all inclusive guide to analyzing large and complex datasets using Apache Mahout It explains complicated but very effective machine learning algorithms simply in relation to real world practical examples Starting from the fundamental concepts of machine learning and Apache Mahout this book guides you through Apache Mahout s implementations of machine learning techniques including classification clustering and recommendations During this exciting walkthrough real world applications a diverse range of popular algorithms and their implementations code examples evaluation strategies and best practices are given for each technique Finally you will learn vdata visualization techniques for Apache Mahout to bring your data to life

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Table of Contents Hadoop Essentials A Quantitative Approach

1. Understanding the eBook Hadoop Essentials A Quantitative Approach
 - The Rise of Digital Reading Hadoop Essentials A Quantitative Approach
 - Advantages of eBooks Over Traditional Books
2. Identifying Hadoop Essentials A Quantitative Approach
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Hadoop Essentials A Quantitative Approach
 - User-Friendly Interface
4. Exploring eBook Recommendations from Hadoop Essentials A Quantitative Approach
 - Personalized Recommendations
 - Hadoop Essentials A Quantitative Approach User Reviews and Ratings
 - Hadoop Essentials A Quantitative Approach and Bestseller Lists
5. Accessing Hadoop Essentials A Quantitative Approach Free and Paid eBooks
 - Hadoop Essentials A Quantitative Approach Public Domain eBooks
 - Hadoop Essentials A Quantitative Approach eBook Subscription Services
 - Hadoop Essentials A Quantitative Approach Budget-Friendly Options
6. Navigating Hadoop Essentials A Quantitative Approach eBook Formats
 - ePub, PDF, MOBI, and More
 - Hadoop Essentials A Quantitative Approach Compatibility with Devices
 - Hadoop Essentials A Quantitative Approach Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Hadoop Essentials A Quantitative Approach
 - Highlighting and Note-Taking Hadoop Essentials A Quantitative Approach
 - Interactive Elements Hadoop Essentials A Quantitative Approach
8. Staying Engaged with Hadoop Essentials A Quantitative Approach

- Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Hadoop Essentials A Quantitative Approach
9. Balancing eBooks and Physical Books Hadoop Essentials A Quantitative Approach
- Benefits of a Digital Library
 - Creating a Diverse Reading Collection Hadoop Essentials A Quantitative Approach
10. Overcoming Reading Challenges
- Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Hadoop Essentials A Quantitative Approach
- Setting Reading Goals Hadoop Essentials A Quantitative Approach
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Hadoop Essentials A Quantitative Approach
- Fact-Checking eBook Content of Hadoop Essentials A Quantitative Approach
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning
- Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
14. Embracing eBook Trends
- Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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