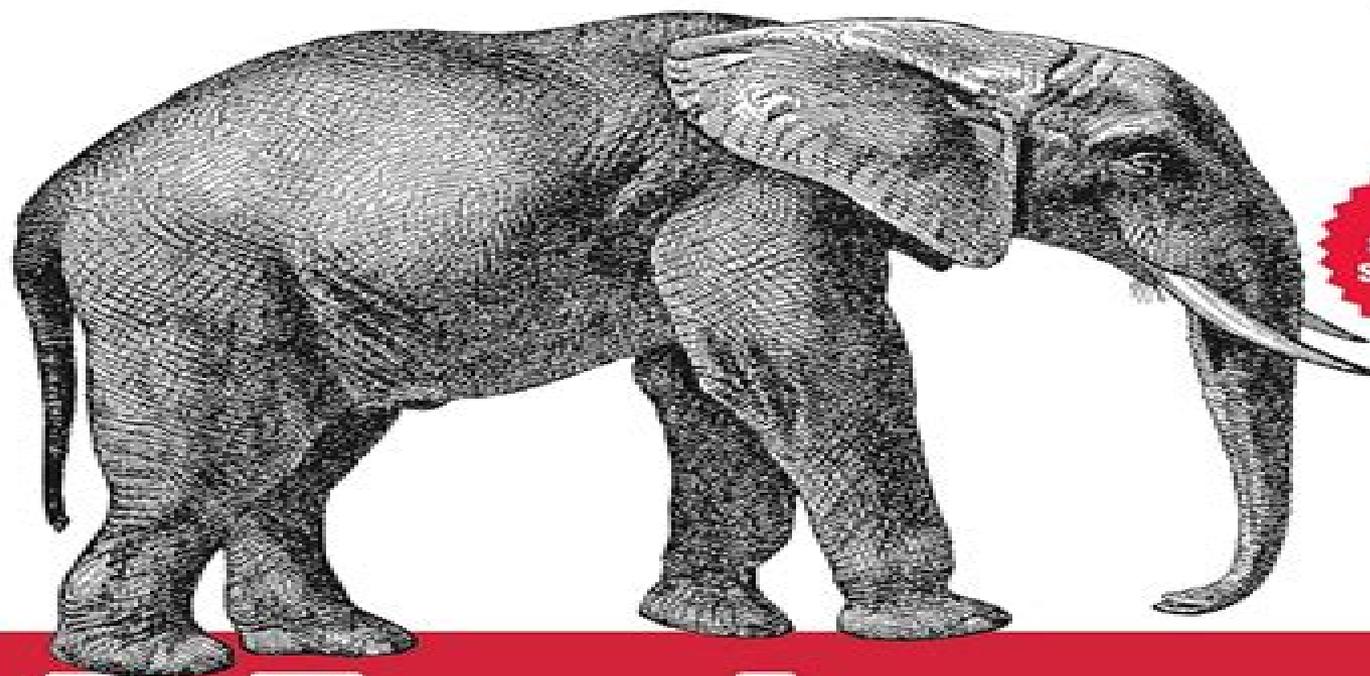


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# Hadoop

## The Definitive Guide

STORAGE AND ANALYSIS AT INTERNET SCALE



Tom White

# Hadoop The Definitive Guide

**Bill Chambers, Matei Zaharia**



## **Hadoop The Definitive Guide:**

**Hadoop: The Definitive Guide** Tom White,2012-05-19 With the latest edition of this comprehensive resource readers will learn how to use Apache Hadoop to build and maintain reliable scalable distributed systems Ideal for programmers and administrators wanting to set up and analyze datasets of any size

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Professional Hadoop Solutions Boris Lublinsky, Kevin T. Smith,Alexey Yakubovich,2013-09-12 The go to guidebook for deploying Big Data solutions with Hadoop Today s enterprise architects need to understand how the Hadoop frameworks and APIs fit together and how they can be integrated to deliver real world solutions This book is a practical detailed guide to building and implementing those solutions with code level instruction in the popular Wrox tradition It covers storing data with HDFS and Hbase processing data with MapReduce and automating data processing with Oozie Hadoop security running Hadoop with Amazon Web Services best practices and automating Hadoop processes in real time are also covered in depth With in depth code examples in Java and XML and the latest on recent additions to the Hadoop ecosystem this complete resource also covers the use of APIs exposing their inner workings and allowing architects and developers to better leverage and customize them The ultimate guide for developers designers and architects who need to build and deploy Hadoop applications Covers storing and processing data with various technologies automating data processing Hadoop security and delivering real time solutions Includes detailed real world examples and code level guidelines Explains when why and how to use these tools effectively Written by a team of Hadoop experts in the programmer to programmer Wrox style Professional Hadoop Solutions is the reference enterprise architects

and developers need to maximize the power of Hadoop Hadoop Davud Keulen,2014-11-26 Introduction Data warehousing is a success judging by its 25 year history of use across all industries Business intelligence met the needs it was designed for to give non technical people within the organization access to important shared data During the same period that data warehousing and BI matured the automation and instrumenting of almost all processes and activities changed the data landscape in most companies Where there were only a few applications and minimal monitoring 25 years ago there is ubiquitous computing and data available about every activity today Data warehouses have not been able to keep up with business demands for new sources of information new types of data more complex analysis and greater speed Companies can put this data to use in countless ways but for most it remains uncollected or unused locked away in silos within IT There has been a gradual maturing of data use in organizations In the early days of BI it was enough to provide access to core financial and customer transactions Better access enabled process changes and these led to the need for more data and more varied uses of information These changes put increasing strain on information processing and delivery capabilities that were designed under assumptions of stability and common use Most companies now have a backlog of new data and analysis requests that BI groups are struggling to meet Big data is not simply about growing data volumes it s also about the fact that the data being collected today is different in ways that make it unwieldy for conventional databases and BI tools Big data is also about new technologies that were developed to support the storage retrieval and processing of this new data The technologies originated in the world of web applications and internet based companies but they are now spreading into enterprise applications of all sorts New technology coupled with new data enables new practices like real time monitoring of operations across retail channels supply chain practices at finer grain and faster speed and analysis of customers at the level of individual activities and behaviors Until recently large scale data collection and analysis capabilities like these would have required a Wal Mart sized investment limiting them to large organizations These capabilities are now available to all regardless of company size or budget This is creating a rush to adopt big data technologies As the use of big data grows the need for data management will grow Many organizations already struggle to manage existing data Big data adds complexity which will only increase the challenge The combination of new data and new technology requires new data management capabilities and processes to capture the promised long term value Wal Mart handles more than a million customer transactions each hour and imports those into databases estimated to contain more than 2.5 petabytes of data Radio frequency identification RFID systems used by retailers and others can generate 100 to 1 000 times the data of conventional bar code systems Facebook handles more than 250 million photo uploads and the interactions of 800 million active users with more than 900 million objects pages groups etc each day More than 5 billion people are calling texting tweeting and browsing on mobile phones worldwide Organizations are inundated with data terabytes and petabytes of it To put it in context 1 terabyte contains 2 000 hours of CD quality music and 10 terabytes could store the entire US Library of Congress

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**R in a Nutshell** Joseph Adler (M.Eng.), 2012 If you're considering R for statistical computing and data visualization this book provides a quick and practical guide to just about everything you can do with the open source R language and software environment You'll learn how to write R functions and use R packages to help you prepare visualize and analyze data Author Joseph Adler illustrates each process with a wealth of examples from medicine business and sports Updated for R 2.14 and 2.15 this second edition includes new and expanded chapters on R performance the ggplot2 data visualization package and parallel R computing with Hadoop Get started quickly with an R tutorial and hundreds of examples Explore R syntax objects and other language details Find thousands of user contributed R packages online including Bioconductor Learn how to use R to prepare data for analysis Visualize your data with R's graphics lattice and ggplot2 packages Use R to calculate statistical tests fit models and compute probability distributions Speed up intensive computations by writing parallel R programs for Hadoop Get a complete desktop reference to R

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**Big Data Analytics with Java** Rajat Mehta, 2017-07-31 Learn the basics of analytics on big data using Java machine learning and other big data tools About This Book Acquire real world set of tools for building enterprise level data science applications Surpasses the barrier of other languages in data science and learn create useful object oriented codes Extensive use of Java compliant big data tools like apache spark Hadoop etc Who This Book Is For This book is for Java developers who are looking to perform data analysis in production environment Those who wish to

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**Emerging Research in Computing, Information, Communication and Applications** N. R. Shetty,L. M. Patnaik,N. H. Prasad,N. Nalini,2017-11-15 This book presents the proceedings of International Conference on Emerging Research in Computing Information Communication and Applications ERCICA 2016 ERCICA provides an interdisciplinary forum for researchers professional engineers and scientists educators and technologists to discuss debate and promote research and technology in the upcoming areas of computing information communication and their applications The book discusses these emerging research areas providing a valuable resource for researchers and practicing engineers alike **Hadoop quan wei zhi nan** ,2013 Computer and Information Technology Prasad Yarlagadda,Seung Bok Choi,Yun Hae Kim,2014-02-06 Selected peer reviewed papers from the International Forum on Computer and Information Technology IFCIT 2013 December 24 25 2013 Shenzhen China **Spark: The Definitive Guide** Bill Chambers,Matei Zaharia,2018-02-08 Learn how to use deploy and maintain Apache Spark with this comprehensive guide written by the creators of the open source cluster computing framework With an emphasis on improvements and new features in Spark 2 0 authors Bill Chambers and Matei Zaharia break down Spark topics into distinct sections each with unique goals You ll explore the basic operations and common functions of Spark s structured APIs as well as Structured Streaming a new high level API for building end to end

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**U.C. Davis Law Review** University of California, Davis. School of Law,2014 **Practical Hadoop Ecosystem** Deepak Vohra,2016-09-30 Learn how to use the Apache Hadoop projects including MapReduce HDFS Apache Hive Apache HBase Apache Kafka Apache Mahout and Apache Solr From setting up the environment to running sample applications each chapter in this book is a practical tutorial on using an Apache Hadoop ecosystem project While several books on Apache Hadoop are available most are based on the main projects MapReduce and HDFS and none discusses the other Apache Hadoop ecosystem projects and how they all work together as a cohesive big data development platform What You Will Learn Set up the environment in Linux for Hadoop projects using Cloudera Hadoop Distribution CDH 5 Run a MapReduce job Store data with Apache Hive and Apache HBase Index data in HDFS with Apache Solr Develop a Kafka messaging system Stream Logs to HDFS with Apache Flume Transfer data from MySQL database to Hive HDFS and HBase with Sqoop Create a Hive table over Apache Solr Develop a Mahout User Recommender System Who This Book Is For Apache Hadoop developers Pre requisite knowledge of Linux and some knowledge of Hadoop is required **HBase: The Definitive Guide** Lars George,2011-08-29 If you re looking for a scalable storage solution to accommodate a virtually endless amount of data this book shows you how Apache HBase can fulfill your needs As the open source implementation of Google s BigTable architecture HBase scales to billions of rows and millions of columns while ensuring that write and read performance remain constant Many IT executives are asking pointed questions about HBase This book provides meaningful answers whether you re evaluating this non relational database or planning to put it into practice right away Discover how tight integration with Hadoop makes scalability with HBase easier Distribute large datasets across an inexpensive cluster of commodity servers Access HBase with native Java clients or with gateway servers providing REST Avro or Thrift APIs Get details on HBase s architecture including the storage format write ahead log background processes and more Integrate HBase with Hadoop s MapReduce framework for massively parallelized data processing jobs Learn how to tune clusters design schemas copy tables import bulk data decommission nodes and many other tasks **Big Data Made Easy** Michael Frampton,2014-12-31 Many corporations are finding that the size of their data sets are outgrowing the capability of their systems to store and process them The data is becoming too big to manage and use with traditional tools The solution implementing a big data system As Big Data Made Easy A Working Guide to the Complete Hadoop Toolset shows Apache

Hadoop offers a scalable fault tolerant system for storing and processing data in parallel It has a very rich toolset that allows for storage Hadoop configuration YARN and ZooKeeper collection Nutch and Solr processing Storm Pig and Map Reduce scheduling Oozie moving Sqoop and Avro monitoring Chukwa Ambari and Hue testing Big Top and analysis Hive The problem is that the Internet offers IT pros wading into big data many versions of the truth and some outright falsehoods born of ignorance What is needed is a book just like this one a wide ranging but easily understood set of instructions to explain where to get Hadoop tools what they can do how to install them how to configure them how to integrate them and how to use them successfully And you need an expert who has worked in this area for a decade someone just like author and big data expert Mike Frampton Big Data Made Easy approaches the problem of managing massive data sets from a systems perspective and it explains the roles for each project like architect and tester for example and shows how the Hadoop toolset can be used at each system stage It explains in an easily understood manner and through numerous examples how to use each tool The book also explains the sliding scale of tools available depending upon data size and when and how to use them Big Data Made Easy shows developers and architects as well as testers and project managers how to Store big data Configure big data Process big data Schedule processes Move data among SQL and NoSQL systems Monitor data Perform big data analytics Report on big data processes and projects Test big data systems Big Data Made Easy also explains the best part which is that this toolset is free Anyone can download it and with the help of this book start to use it within a day With the skills this book will teach you under your belt you will add value to your company or client immediately not to mention your career

**Lucene and Solr: The Definitive Guide** Jason Rutherglen,Ryan Tabora,John Krupansky,2013-05-15 With the intense interest in big data and the growing complexity of Apache Solr applications application developers business professionals and end users alike are clamoring for a more in depth look at Apache Lucene and Solr This comprehensive one stop guide helps you gain a thorough understanding of Lucene s underlying architecture so you can design implement and tune successful Solr applications High speed inverted indexes are inherently difficult to develop That s why more and more enterprises are implementing the Solr search server and Lucene Core search technology for complex text retrieval as a NoSQL system for big data or as a replacement for relational database systems that require horizontal scalability With this guide s complete coverage of both Lucene and Solr you ll get a unified view of their value and applicability to your big data projects Learn how Lucene works from the inside out Get examples for using both Lucene and Solr APIs Configure Solr for optimal production use Learn how to use Solr with Hadoop

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