



Understanding

Hadoop:

Big Data and Distributed
Processing



Hadoop Complete Guide

Q. Ethan McCallum, Stephen Weston



Hadoop Complete Guide:

Hadoop: The Definitive Guide Tom White, 2009-05-29 Hadoop The Definitive Guide helps you harness the power of your data Ideal for processing large datasets the Apache Hadoop framework is an open source implementation of the MapReduce algorithm on which Google built its empire This comprehensive resource demonstrates how to use Hadoop to build reliable scalable distributed systems programmers will find details for analyzing large datasets and administrators will learn how to set up and run Hadoop clusters Complete with case studies that illustrate how Hadoop solves specific problems this book helps you Use the Hadoop Distributed File System HDFS for storing large datasets and run distributed computations over those datasets using MapReduce Become familiar with Hadoop s data and I O building blocks for compression data integrity serialization and persistence Discover common pitfalls and advanced features for writing real world MapReduce programs Design build and administer a dedicated Hadoop cluster or run Hadoop in the cloud Use Pig a high level query language for large scale data processing Take advantage of HBase Hadoop s database for structured and semi structured data Learn ZooKeeper a toolkit of coordination primitives for building distributed systems If you have lots of data whether it s gigabytes or petabytes Hadoop is the perfect solution Hadoop The Definitive Guide is the most thorough book available on the subject Now you have the opportunity to learn about Hadoop from a master not only of the technology but also of common sense and plain talk Doug Cutting Hadoop Founder Yahoo [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 **Hadoop** Tom E. White, 2015 Offers information on how to build and maintain reliable scalable distributed systems with Apache Hadoop covering such topics as MapReduce HDFS YARN Avro for data serialization Parquet for nested data and data ingestion tools Flume and Sqoop **Hadoop** Tom E. White, 2012 Ready to unlock the power of your data With this comprehensive guide you ll learn how to build and maintain reliable scalable distributed systems with Apache Hadoop This book is ideal for programmers looking to analyze datasets of any size and for administrators who want to set up and run Hadoop clusters You ll find illuminating case studies that demonstrate how Hadoop is used to solve specific problems This third edition covers recent changes to Hadoop including material on the new MapReduce API as well as MapReduce 2 and its more flexible execution model YARN Store large datasets with the Hadoop Distributed File System HDFS Run distributed computations with MapReduce Use Hadoop s data and I O building blocks for compression data integrity serialization including Avro and persistence Discover common pitfalls and advanced features for writing real world MapReduce programs Design build and administer a dedicated Hadoop cluster or run Hadoop in the cloud Load data from relational databases into HDFS using Sqoop Perform large scale data processing with the Pig query language Analyze datasets with Hive Hadoop s data warehousing system Take advantage of HBase for structured and semi structured

data and ZooKeeper for building distributed systems *Hadoop: The Definitive Guide* Tom E. White, 2009 Hadoop The Definitive Guide helps you harness the power of your data Ideal for processing large datasets the Apache Hadoop framework is an open source implementation of the MapReduce algorithm on which Google built its empire This comprehensive resource demonstrates how to use Hadoop to build reliable scalable distributed systems programmers will find details for analyzing large datasets and administrators will learn how to set up and run Hadoop clusters **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 *Hadoop Operations* Eric Sammer, 2012-10-09 For system administrators tasked with the job of maintaining large and complex Hadoop clusters this book explains the particulars of Hadoop operations from planning installing and configuring the system to providing ongoing maintenance *Programming Hive* Edward Capriolo, Dean Wampler, Jason Rutherglen, 2012-09-26 Need to move a relational database application to Hadoop This comprehensive guide introduces you to Apache Hive Hadoop s data warehouse infrastructure You ll quickly learn how to use Hive s SQL dialect HiveQL to summarize query and analyze large datasets

stored in Hadoop's distributed filesystem. This example-driven guide shows you how to set up and configure Hive in your environment, provides a detailed overview of Hadoop and MapReduce, and demonstrates how Hive works within the Hadoop ecosystem. You'll also find real-world case studies that describe how companies have used Hive to solve unique problems involving petabytes of data. Use Hive to create, alter, and drop databases, tables, views, functions, and indexes. Customize data formats and storage options from files to external databases. Load and extract data from tables and use queries grouping, filtering, joining, and other conventional query methods. Gain best practices for creating user-defined functions (UDFs). Learn Hive patterns you should use and anti-patterns you should avoid. Integrate Hive with other data processing programs. Use storage handlers for NoSQL databases and other data stores. Learn the pros and cons of running Hive on Amazon's Elastic MapReduce.

Handbook of Research on Innovations and Applications of AI, IoT, and Cognitive Technologies

Zhao, Jingyuan, Kumar, V. Vinodh, 2021-06-25. Recently, artificial intelligence (AI), the Internet of Things (IoT), and cognitive technologies have successfully been applied to various research domains, including computer vision, natural language processing, voice recognition, and more. In addition, AI with IoT has made a significant breakthrough and a shift in technical direction to achieve high efficiency and adaptability in a variety of new applications. On the other hand, network design and optimization for AI applications addresses a complementary topic, namely, the support of AI-based systems through novel networking techniques, including new architectures as well as performance models for IoT systems. IoT has paved the way to a plethora of new application domains at the same time, posing several challenges as a multitude of devices, protocols, communication channels, architectures, and middleware exist. Big data generated by these devices calls for advanced learning and data mining techniques to effectively understand, learn, and reason with this volume of information, such as cognitive technologies. Cognitive technologies play a major role in developing successful cognitive systems which mimic cognitive functions associated with human intelligence, such as learning and problem solving. Thus, there is a continuing demand for recent research in these two linked fields. The Handbook of Research on Innovations and Applications of AI, IoT, and Cognitive Technologies discusses the latest innovations and applications of AI, IoT, and cognitive-based smart systems. The chapters cover the intersection of these three fields in emerging and developed economies in terms of their respective development situation, public policies, technologies, and intellectual capital, innovation systems, competition, and strategies, marketing, and growth capability, and governance and regulation models. These applications span areas such as healthcare, security, and privacy, industrial systems, multidisciplinary sciences, and more. This book is ideal for technologists, IT specialists, policymakers, government officials, academics, students, and practitioners interested in the experiences of innovations and applications of AI, IoT, and cognitive technologies.

Intelligence Science and Big Data Engineering. Big Data and Machine Learning Techniques

Xiaofei He, Xinbo Gao, Yanning Zhang, Zhi-Hua Zhou, Zhi-Yong Liu, Baochuan Fu, Fuyuan Hu, Zhancheng Zhang, 2015-10-13. The two-volume set LNCS 9242/9243 constitutes the proceedings of the 5th International Conference on

Intelligence Science and Big Data Engineering IScIDE 2015 held in Suzhou China in June 2015 The total of 126 papers presented in the proceedings was carefully reviewed and selected from 416 submissions They deal with big data neural networks image processing computer vision pattern recognition and graphics object detection dimensionality reduction and manifold learning unsupervised learning and clustering anomaly detection semi supervised learning

Monitoring with Ganglia Matt Massie, Bernard Li, Brad Nicholes, Vladimir Vuksan, Robert Alexander, Jeff Buchbinder, Frederiko Costa, Alex Dean, Dave Josephsen, Peter Phaal, Daniel Pocock, 2012-11-09 Written by Ganglia designers and maintainers this book shows you how to collect and visualize metrics from clusters grids and cloud infrastructures at any scale Want to track CPU utilization from 50 000 hosts every ten seconds Ganglia is just the tool you need once you know how its main components work together This hands on book helps experienced system administrators take advantage of Ganglia 3 x Learn how to extend the base set of metrics you collect fetch current values see aggregate views of metrics and observe time series trends in your data You ll also examine real world case studies of Ganglia installs that feature challenging monitoring requirements Determine whether Ganglia is a good fit for your environment Learn how Ganglia s gmond and gmetad daemons build a metric collection overlay Plan for scalability early in your Ganglia deployment with valuable tips and advice Take data visualization to a new level with gweb Ganglia s web frontend Write plugins to extend gmond s metric collection capability Troubleshoot issues you may encounter with a Ganglia installation Integrate Ganglia with the sFlow and Nagios monitoring systems Contributors include Robert Alexander Jeff Buchbinder Frederiko Costa Alex Dean Dave Josephsen Peter Phaal and Daniel Pocock Case study writers include John Allspaw Ramon Bastiaans Adam Compton Andrew Dibble and Jonah Horowitz

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 streaming applications Developers and system administrators will learn the fundamentals of monitoring tuning and debugging Spark and explore machine learning techniques and scenarios for employing MLlib Spark s scalable machine learning library Get a gentle overview of big data and Spark Learn about DataFrames SQL and Datasets Spark s core APIs through worked examples Dive into Spark s low level APIs RDDs and execution of SQL and DataFrames Understand how Spark runs on a cluster Debug monitor and tune Spark clusters and applications Learn the power of Structured Streaming Spark s stream processing engine Learn how you can apply MLlib to a variety of problems including classification or recommendation

Handbook of Research on Technologies and Systems for E-Collaboration During Global Crises Zhao, Jingyuan, Kumar, V. Vinoth, 2022-04-08 Necessity is the mother of invention challenging times can provide new opportunities that must be detected and exploited at

the right moments The COVID 19 pandemic has demonstrated that it is not only an issue of healthcare but also a challenge for the global economy business and society Organizations have rapidly deployed technology solutions that enable them to work and service remotely and continue most of their normal operations The Handbook of Research on Technologies and Systems for E Collaboration During Global Crises focuses on emerging technologies and systems strategies and solutions for e collaboration This book assesses the importance of technologies and systems for e collaboration in dealing with emerging crises such as pandemics Covering topics such as deep learning processes machine vision and profit sharing models it is an essential resource for computer scientists public officials engineers students and professors of higher education healthcare administration programmers researchers and academicians

Handbook of Research on Big Data Storage and Visualization Techniques Segall, Richard S.,Cook, Jeffrey S.,2018-01-05 The digital age has presented an exponential growth in the amount of data available to individuals looking to draw conclusions based on given or collected information across industries Challenges associated with the analysis security sharing storage and visualization of large and complex data sets continue to plague data scientists and analysts alike as traditional data processing applications struggle to adequately manage big data The Handbook of Research on Big Data Storage and Visualization Techniques is a critical scholarly resource that explores big data analytics and technologies and their role in developing a broad understanding of issues pertaining to the use of big data in multidisciplinary fields Featuring coverage on a broad range of topics such as architecture patterns programing systems and computational energy this publication is geared towards professionals researchers and students seeking current research and application topics on the subject

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

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 **Testing iOS Apps with**

HadoopUnit Scott Tilley, Krissada Dechokul, 2022-05-31 Smartphone users have come to expect high quality apps This has increased the importance of software testing in mobile software development Unfortunately testing apps particularly the GUI can be very time consuming Exercising every user interface element and verifying transitions between different views of the app under test quickly becomes problematic For example execution of iOS GUI test suites using Apple's UI Automation framework can take an hour or more if the app's interface is complicated The longer it takes to run a test the less frequently the test can be run which in turn reduces software quality This book describes how to accelerate the testing process for iOS apps using HadoopUnit a distributed test execution environment that leverages the parallelism inherent in the Hadoop platform HadoopUnit was previously used to run unit and system tests in the cloud It has been modified to perform GUI testing of iOS apps on a small scale cluster a modest computing infrastructure available to almost every developer Experimental results have shown that distributed test execution with HadoopUnit can significantly outperform the test execution on a single machine even if the size of the cluster used for the execution is as small as two nodes This means that the approach described in this book could be adopted without a huge investment in IT resources HadoopUnit is a cost effective solution for reducing lengthy test execution times of system level GUI testing of iOS apps Parallel R Q. Ethan

McCallum, Stephen Weston, 2011-10-21 It's tough to argue with R as a high quality cross platform open source statistical software product unless you're in the business of crunching Big Data This concise book introduces you to several strategies for using R to analyze large datasets including three chapters on using R and Hadoop together You'll learn the basics of Snow Multicore Parallel Segue RHIPE and Hadoop Streaming including how to find them how to use them when they work well and when they don't With these packages you can overcome R's single threaded nature by spreading work across multiple CPUs or offloading work to multiple machines to address R's memory barrier Snow works well in a traditional cluster environment Multicore popular for multiprocessor and multicore computers Parallel part of the upcoming R 2.14.0 release R Hadoop provides low level access to a popular form of cluster computing RHIPE uses Hadoop's power with R's language and interactive shell Segue lets you use Elastic MapReduce as a backend for lapply style operations Cloud Computing Kamal Kant Hiran, Ruchi Doshi, Temitayo Fagbola, Mehul Mahrishi, 2019-05-01 Unleash the power of cloud computing using Azure AWS and Apache Hadoop Description With the advent of internet there is a complete paradigm shift

in the manner we comprehend computing Need to enable ubiquity convenient and on demand access to resources in highly scalable and resilient environments that can be remotely accessed gave birth to the concept of Cloud computing The acceptance is so rapid that the notion influences sophisticated innovations in academia industry and research world wide and hereby change the landscape of information technology as we thought of Through this book the authors tried to incorporate core principles and basic notion of cloud computing in a step by step manner and tried to emphasize on key concepts for clear and thorough insight into the subject Audience This book is intended for students of B E B Tech B Sc M Sc M E and M Tech as a text book The content is designed keeping in mind the bench marked curriculum of various universities both National and International The book covers not only the technical details of how cloud works but also exhibits the strategy technical design and in depth knowledge required to migrate existing applications to the cloud Therefore it makes it relevant for the beginners who wants to learn cloud computing right from the foundation Aspiring Cloud Computing Researchers Instructors Academicians and Professionals if they are familiar with cloud can use this book to learn various open source cloud computing tools applications technologies They will also get a flavor of various international certification exams available What will you learn Learn about the Importance of Cloud Computing in Current Digital Era Understand the Core concepts and Principles of Cloud Computing with practical benefits Learn about the Cloud Deployment models and Services Discover how Cloud Computing Architecture works Learn about the Load balancing approach and Mobile Cloud Computing MCC Learn about the Virtualization and Service Oriented Architecture SOA concepts Learn about the various Cloud Computing applications Platforms and Security concepts Understand the adoption Cloud Computing technology and strategies for migration to the cloud Case Studies for Cloud computing adoption Sub Saharan Africa and India Key Features Provides a sound understanding of the Cloud computing concepts architecture and its applications Explores the practical benefits of Cloud computing services and deployment models in details Cloud Computing Architecture Cloud Computing Life Cycle CCLC Load balancing approach Mobile Cloud Computing MCC Google App Engine GAE Virtualization and Service Oriented Architecture SOA Cloud Computing applications Google Apps Dropbox Cloud and Apple iCloud and its uses in various sectors Education Healthcare Politics Business and Agriculture Cloud Computing platforms Microsoft Azure Amazon Web Services AWS Open Nebulla Eucalyptus Open Stack Nimbus and The Apache Hadoop Architecture Adoption of Cloud Computing technology and strategies for migration to the cloud Cloud computing adoption case studies Sub Saharan Africa and India Chapter wise Questions with Summary and Examination Model Question papers Table of Contents 1 Foundation of Cloud Computing 2 Cloud Services and Deployment Models 3 Cloud Computing Architecture 4 Virtualization Service Oriented Architecture 5 Cloud Security and Privacy 6 Cloud Computing Applications 7 Cloud Computing Technologies Platform and Services 8 Adoption of Cloud Computing 9 Model Paper 1 10 Model Paper 2 11 Model Paper 3 12 Model Paper

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