

18 ESSENTIAL HADOOP TOOLS

FOR CRUNCHING BIG DATA



Essential Hadoop Tools For Crunching Big Data

Yijin Wang



Essential Hadoop Tools For Crunching Big Data:

Big Data Analytics for Satellite Image Processing and Remote Sensing Swarnalatha, P.,Sevugan, Prabu,2018-03-09 The scope of image processing and recognition has broadened due to the gap in scientific visualization Thus new imaging techniques have developed and it is imperative to study this progression for optimal utilization Big Data Analytics for Satellite Image Processing and Remote Sensing is a critical scholarly resource that examines the challenges and difficulties of implementing big data in image processing for remote sensing and related areas Featuring coverage on a broad range of topics such as distributed computing parallel processing and spatial data this book is geared towards scientists professionals researchers and academicians seeking current research on the use of big data analytics in satellite image processing and remote sensing

Roadmap to Successful Digital Health Ecosystems Evelyn Hovenga,Heather Grain,2022-02-12 Roadmap to Successful Digital Health Ecosystems A Global Perspective presents evidence based solutions found on adopting open platforms standard information models technology neutral data repositories and computable clinical data and knowledge ontologies terminologies content models process models and guidelines resulting in improved patient organizational and global health outcomes The book helps engaging countries and stakeholders take action and commit to a digital health strategy create a global environment and processes that will facilitate and induce collaboration develop processes for monitoring and evaluating national digital health strategies and enable learnings to be shared in support of WHO s global strategy for digital health The book explains different perspectives and local environments for digital health implementation including data information and technology governance secondary data use need for effective data interpretation costly adverse events models of care HR management workforce planning system connectivity data sharing and linking small and big data change management and future vision All proposed solutions are based on real world scientific social and political evidence Provides a roadmap based on examples already in place to develop and implement digital health systems on a large scale that are easily reproducible in different environments Addresses World Health Organization WHO identified research gaps associated with the feasibility and effectiveness of various digital health interventions Helps readers improve future decision making within a digital environment by detailing insights into the complexities of the health system Presents evidence from real world case studies from multiple countries to discuss new skills that suit new paradigms

High-Performance Big-Data Analytics Pethuru Raj,Anupama Raman,Dhivya Nagaraj,Siddhartha Duggirala,2015-10-16 This book presents a detailed review of high performance computing infrastructures for next generation big data and fast data analytics Features includes case studies and learning activities throughout the book and self study exercises in every chapter presents detailed case studies on social media analytics for intelligent businesses and on big data analytics BDA in the healthcare sector describes the network infrastructure requirements for effective transfer of big data and the storage infrastructure requirements of applications which generate big data examines real time analytics solutions introduces in

database processing and in memory analytics techniques for data mining discusses the use of mainframes for handling real time big data and the latest types of data management systems for BDA provides information on the use of cluster grid and cloud computing systems for BDA reviews the peer to peer techniques and tools and the common information visualization techniques used in BDA

YARN Essentials Amol Fasale,Nirmal Kumar,2015-02-24 If you have a working knowledge of Hadoop 1 x but want to start afresh with YARN this book is ideal for you You will be able to install and administer a YARN cluster and also discover the configuration settings to fine tune your cluster both in terms of performance and scalability This book will help you develop deploy and run multiple applications frameworks on the same shared YARN cluster

Data Science and Big Data Computing Zaigham Mahmood,2016-07-05 This illuminating text reference surveys the state of the art in data science and provides practical guidance on big data analytics Expert perspectives are provided by authoritative researchers and practitioners from around the world discussing research developments and emerging trends presenting case studies on helpful frameworks and innovative methodologies and suggesting best practices for efficient and effective data analytics Features reviews a framework for fast data applications a technique for complex event processing and agglomerative approaches for the partitioning of networks introduces a unified approach to data modeling and management and a distributed computing perspective on interfacing physical and cyber worlds presents techniques for machine learning for big data and identifying duplicate records in data repositories examines enabling technologies and tools for data mining proposes frameworks for data extraction and adaptive decision making and social media analysis

Ask, Measure, Learn Lutz Finger,Soumitra Dutta,2014-01-23 You can measure practically anything in the age of social media but if you don't know what you're looking for collecting mountains of data won't yield a grain of insight This non technical guide shows you how to extract significant business value from big data with Ask Measure Learn a system that helps you ask the right questions measure the right data and then learn from the results Authors Lutz Finger and Soumitra Dutta originally devised this system to help governments and NGOs sift through volumes of data With this book these two experts provide business managers and analysts with a high level overview of the Ask Measure Learn system and demonstrate specific ways to apply social media analytics to marketing sales public relations and customer management using examples and case studies

Big Data Now: Current Perspectives from O'Reilly Radar O'Reilly Radar Team,2011-08-30 This collection represents the full spectrum of data related content we've published on O'Reilly Radar over the last year Mike Loukides kicked things off in June 2010 with What is data science and from there we've pursued the various threads and themes that naturally emerged Now roughly a year later we can look back over all we've covered and identify a number of core data areas Data issues The opportunities and ambiguities of the data space are evident in discussions around privacy the implications of data centric industries and the debate about the phrase data science itself The application of data products and processes A data product can emerge from virtually any domain including everything from data startups to established enterprises to media journalism to

education and research Data science and data tools The tools and technologies that drive data science are of course essential to this space but the varied techniques being applied are also key to understanding the big data arena The business of data Take a closer look at the actions connected to data the finding organizing and analyzing that provide organizations of all sizes with the information they need to compete

Smart Cities Houbing Song, Ravi Srinivasan, Tamim Sookoor, Sabina Jeschke, 2017-07-12 Provides the foundations and principles needed for addressing the various challenges of developing smart cities Smart cities are emerging as a priority for research and development across the world They open up significant opportunities in several areas such as economic growth health wellness energy efficiency and transportation to promote the sustainable development of cities This book provides the basics of smart cities and it examines the possible future trends of this technology Smart Cities Foundations Principles and Applications provides a systems science perspective in presenting the foundations and principles that span multiple disciplines for the development of smart cities Divided into three parts foundations principles and applications Smart Cities addresses the various challenges and opportunities of creating smart cities and all that they have to offer It also covers smart city theory modeling and simulation and examines case studies of existing smart cities from all around the world In addition the book Addresses how to develop a smart city and how to present the state of the art and practice of them all over the world Focuses on the foundations and principles needed for advancing the science engineering and technology of smart cities including system design system verification real time control and adaptation Internet of Things and test beds Covers applications of smart cities as they relate to smart transportation connected vehicle CV and Intelligent Transportation Systems ITS for improved mobility safety and environmental protection Smart Cities Foundations Principles and Applications is a welcome reference for the many researchers and professionals working on the development of smart cities and smart city related industries

Intelligent Cities Pethuru Raj, Anupama C. Raman, 2015-06-15 The emergence of highly promising and potent technologies has enabled the transition of ordinary objects into smart artifacts providing wider connectivity of digitized entities that can facilitate the building of connected cities This book provides readers with a solid foundation on the latest technologies and tools required to develop and enhance smart cities around the world The book begins by examining the rise of the cloud as the fundamental technology for establishing and sustaining smart cities and enterprises Explaining the principal technologies and platform solutions for implementing intelligent cities the book details the role of various technologies standards protocols and tools in establishing flexible homes and the buildings of the future Examines IT platforms and tools from various product vendors Considers service oriented architecture and event driven architecture for smart city applications Explains how to leverage big data analytics for smart city enhancement and improved decision making Includes case studies of intelligent cities smart homes buildings transports healthcare systems and airports The authors explore the convergence of cloud computing and enterprise architecture and present valuable information on next generation cloud computing They also cover the various

architectural types including enterprise scale integration security management and governance The book concludes by explaining the various security requirements of intelligent cities as well as the threats and vulnerabilities of the various components that form the basis of the intelligent city framework including cloud big data Internet of Things and mobile technologies

Big Data Analytics and Cloud Computing Syed Thouheed Ahmed, Syed Muzamil Basha, Sajeew Ram Arumugam, Kiran Kumari Patil, 2021-09-05 Big data analytics and cloud computing is the fastest growing technologies in current era This text book serves as a purpose in providing an understanding of big data principles and framework at the beginner's level The text book covers various essential concepts of big data analytics and processing tools such as HADOOP and YARN The Textbook covers an analogical understanding on bridging cloud computing with big data technologies with essential cloud infrastructure protocol and ecosystem concepts PART I Hadoop Distributed File System Basics Running Example Programs and Benchmarks Hadoop MapReduce Framework Essential Hadoop Tools Hadoop YARN Applications Managing Hadoop with Apache Ambari Basic Hadoop Administration Procedures PART II Introduction to Cloud Computing Origins and Influences Basic Concepts and Terminology Goals and Benefits Risks and Challenges Fundamental Concepts and Models Roles and Boundaries Cloud Characteristics Cloud Delivery Models Cloud Deployment Models Cloud Computing Technologies Broadband networks and internet architecture data center technology virtualization technology web technology multi tenant technology service Technology Cloud Infrastructure Mechanisms Logical Network Perimeter Virtual Server Cloud Storage Device Cloud Usage Monitor Resource Replication Ready made environment

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 *Big Data and Hadoop* VK Jain,2017-01-01 This book introduces you to the Big Data processing techniques addressing but not limited to various BI business intelligence requirements such as reporting batch analytics online analytical processing OLAP data mining and Warehousing and predictive analytics The book has been written on IBMs Platform of Hadoop framework IBM Infosphere BigInsight has the highest amount of tutorial matter available free of cost on Internet which makes it easy to acquire proficiency in this technique This therefore becomes highly vulnerable coaching materials in easy to learn steps The book optimally provides the courseware as per MCA and M Tech Level Syllabi of most of the Universities All components of big Data Platform like Jaql Hive Pig Sqoop Flume Hadoop Streaming Oozie HBase HDFS FlumeNG Whirr Cloudera Fuse Zookeeper and Mahout Machine learning for Hadoop has been discussed in sufficient Detail with hands on Exercises on each

Hadoop: The Definitive Guide Tom White,2015-03-25 Get ready to unlock the power of your data With the fourth edition of 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 Using Hadoop 2 exclusively author Tom White presents new chapters on YARN and several Hadoop related projects such as Parquet Flume Crunch and Spark You ll learn about recent changes to Hadoop and explore new case studies on Hadoop s role in healthcare systems and genomics data processing Learn fundamental components such as MapReduce HDFS and YARN Explore MapReduce in depth including steps for developing applications with it Set up and maintain a Hadoop cluster running HDFS and MapReduce on YARN Learn two data formats Avro for data serialization and Parquet for nested data Use data ingestion tools such as Flume for streaming data and Sqoop for bulk data transfer Understand how high level data processing tools like Pig Hive Crunch and Spark work with Hadoop Learn the HBase distributed database and the ZooKeeper distributed configuration service [BIG DATA ANALYTICS WITH HADOOP](#)

THOMPSON. CARTER,2024 *Practical Big Data Analytics* Nataraj Dasgupta,2018-01-15 Get command of your organizational Big Data using the power of data science and analytics Key Features A perfect companion to boost your Big Data storing processing analyzing skills to help you take informed business decisions Work with the best tools such as Apache Hadoop R Python and Spark for NoSQL platforms to perform massive online analyses Get expert tips on statistical inference machine learning mathematical modeling and data visualization for Big Data Book Description Big Data analytics relates to the strategies used by organizations to collect organize and analyze large amounts of data to uncover valuable business insights that otherwise cannot be analyzed through traditional systems Crafting an enterprise scale cost efficient Big Data and machine learning solution to uncover insights and value from your organization s data is a challenge Today with

hundreds of new Big Data systems machine learning packages and BI Tools selecting the right combination of technologies is an even greater challenge This book will help you do that With the help of this guide you will be able to bridge the gap between the theoretical world of technology with the practical ground reality of building corporate Big Data and data science platforms You will get hands on exposure to Hadoop and Spark build machine learning dashboards using R and R Shiny create web based apps using NoSQL databases such as MongoDB and even learn how to write R code for neural networks By the end of the book you will have a very clear and concrete understanding of what Big Data analytics means how it drives revenues for organizations and how you can develop your own Big Data analytics solution using different tools and methods articulated in this book What you will learn Get a 360 degree view into the world of Big Data data science and machine learning Broad range of technical and business Big Data analytics topics that caters to the interests of the technical experts as well as corporate IT executives Get hands on experience with industry standard Big Data and machine learning tools such as Hadoop Spark MongoDB KDB and R Create production grade machine learning BI Dashboards using R and R Shiny with step by step instructions Learn how to combine open source Big Data machine learning and BI Tools to create low cost business analytics applications Understand corporate strategies for successful Big Data and data science projects Go beyond general purpose analytics to develop cutting edge Big Data applications using emerging technologies Who this book is for The book is intended for existing and aspiring Big Data professionals who wish to become the go to person in their organization when it comes to Big Data architecture analytics and governance While no prior knowledge of Big Data or related technologies is assumed it will be helpful to have some programming experience Big Data Analytics Venkat Ankam,2016-09-28 A handy reference guide for data analysts and data scientists to help to obtain value from big data analytics using Spark on Hadoop clusters About This Book This book is based on the latest 2.0 version of Apache Spark and 2.7 version of Hadoop integrated with most commonly used tools Learn all Spark stack components including latest topics such as DataFrames DataSets GraphFrames Structured Streaming DataFrame based ML Pipelines and SparkR Integrations with frameworks such as HDFS YARN and tools such as Jupyter Zeppelin NiFi Mahout HBase Spark Connector GraphFrames H2O and Hivemall Who This Book Is For Though this book is primarily aimed at data analysts and data scientists it will also help architects programmers and practitioners Knowledge of either Spark or Hadoop would be beneficial It is assumed that you have basic programming background in Scala Python SQL or R programming with basic Linux experience Working experience within big data environments is not mandatory What You Will Learn Find out and implement the tools and techniques of big data analytics using Spark on Hadoop clusters with wide variety of tools used with Spark and Hadoop Understand all the Hadoop and Spark ecosystem components Get to know all the Spark components Spark Core Spark SQL DataFrames DataSets Conventional and Structured Streaming MLLib ML Pipelines and Graphx See batch and real time data analytics using Spark Core Spark SQL and Conventional and Structured Streaming Get to grips with data science and

machine learning using MLlib ML Pipelines H2O Hivemall Graphx SparkR and Hivemall In Detail Big Data Analytics book aims at providing the fundamentals of Apache Spark and Hadoop All Spark components Spark Core Spark SQL DataFrames Data sets Conventional Streaming Structured Streaming MLlib Graphx and Hadoop core components HDFS MapReduce and Yarn are explored in greater depth with implementation examples on Spark Hadoop clusters It is moving away from MapReduce to Spark So advantages of Spark over MapReduce are explained at great depth to reap benefits of in memory speeds DataFrames API Data Sources API and new Data set API are explained for building Big Data analytical applications Real time data analytics using Spark Streaming with Apache Kafka and HBase is covered to help building streaming applications New Structured streaming concept is explained with an IOT Internet of Things use case Machine learning techniques are covered using MLlib ML Pipelines and SparkR and Graph Analytics are covered with GraphX and GraphFrames components of Spark Readers will also get an opportunity to get started with web based notebooks such as Jupyter Apache Zeppelin and data flow tool Apache NiFi to analyze and visualize data Style and approach This step by step pragmatic guide will make life easy no matter what your level of experience You will deep dive into Apache Spark on Hadoop clusters through ample exciting real life examples Practical tutorial explains data science in simple terms to help programmers and data analysts get started with Data Science

Apache Hadoop 3 Quick Start Guide Hrishikesh Vijay Karambelkar, 2018-10-31 A fast paced guide that will help you learn about Apache Hadoop 3 and its ecosystem Key Features Set up configure and get started with Hadoop to get useful insights from large data sets Work with the different components of Hadoop such as MapReduce HDFS and YARN Learn about the new features introduced in Hadoop 3 Book Description Apache Hadoop is a widely used distributed data platform It enables large datasets to be efficiently processed instead of using one large computer to store and process the data This book will get you started with the Hadoop ecosystem and introduce you to the main technical topics including MapReduce YARN and HDFS The book begins with an overview of big data and Apache Hadoop Then you will set up a pseudo Hadoop development environment and a multi node enterprise Hadoop cluster You will see how the parallel programming paradigm such as MapReduce can solve many complex data processing problems The book also covers the important aspects of the big data software development lifecycle including quality assurance and control performance administration and monitoring You will then learn about the Hadoop ecosystem and tools such as Kafka Sqoop Flume Pig Hive and HBase Finally you will look at advanced topics including real time streaming using Apache Storm and data analytics using Apache Spark By the end of the book you will be well versed with different configurations of the Hadoop 3 cluster What you will learn Store and analyze data at scale using HDFS MapReduce and YARN Install and configure Hadoop 3 in different modes Use Yarn effectively to run different applications on Hadoop based platform Understand and monitor how Hadoop cluster is managed Consume streaming data using Storm and then analyze it using Spark Explore Apache Hadoop ecosystem components such as Flume Sqoop HBase Hive and Kafka Who this

book is for Aspiring Big Data professionals who want to learn the essentials of Hadoop 3 will find this book to be useful Existing Hadoop users who want to get up to speed with the new features introduced in Hadoop 3 will also benefit from this book Having knowledge of Java programming will be an added advantage

"[Data Processing and Modeling with Hadoop](#)" ,2008 **Modern Big Data Processing with Hadoop V**

Naresh Kumar,Prashant Shindgikar,2018-03-30 A comprehensive guide to design build and execute effective Big Data strategies using Hadoop Key Features Get an in depth view of the Apache Hadoop ecosystem and an overview of the architectural patterns pertaining to the popular Big Data platform Conquer different data processing and analytics challenges using a multitude of tools such as Apache Spark Elasticsearch Tableau and more A comprehensive step by step guide that will teach you everything you need to know to be an expert Hadoop Architect Book Description The complex structure of data these days requires sophisticated solutions for data transformation to make the information more accessible to the users This book empowers you to build such solutions with relative ease with the help of Apache Hadoop along with a host of other Big Data tools This book will give you a complete understanding of the data lifecycle management with Hadoop followed by modeling of structured and unstructured data in Hadoop It will also show you how to design real time streaming pipelines by leveraging tools such as Apache Spark and build efficient enterprise search solutions using Elasticsearch You will learn to build enterprise grade analytics solutions on Hadoop and how to visualize your data using tools such as Apache Superset This book also covers techniques for deploying your Big Data solutions on the cloud Apache Ambari as well as expert techniques for managing and administering your Hadoop cluster By the end of this book you will have all the knowledge you need to build expert Big Data systems What you will learn Build an efficient enterprise Big Data strategy centered around Apache Hadoop Gain a thorough understanding of using Hadoop with various Big Data frameworks such as Apache Spark Elasticsearch and more Set up and deploy your Big Data environment on premises or on the cloud with Apache Ambari Design effective streaming data pipelines and build your own enterprise search solutions Utilize the historical data to build your analytics solutions and visualize them using popular tools such as Apache Superset Plan set up and administer your Hadoop cluster efficiently Who this book is for This book is for Big Data professionals who want to fast track their career in the Hadoop industry and become an expert Big Data architect Project managers and mainframe professionals looking forward to build a career in Big Data Hadoop will also find this book to be useful Some understanding of Hadoop is required to get the best out of this book *Data Processing and Modeling with Hadoop* Vinicius Aquino do Vale,2021-10-12 Understand data in a simple way using a data lake KEY FEATURES In depth practical demonstration of Hadoop Yarn concepts with numerous examples Includes graphical illustrations and visual explanations for Hadoop commands and parameters Includes details of dimensional modeling and Data Vault modeling Includes details of how to create and define a structure to a data lake DESCRIPTION The book *Data Processing and Modeling with Hadoop* explains how a distributed

system works and its benefits in the big data era in a straightforward and clear manner After reading the book you will be able to plan and organize projects involving a massive amount of data The book describes the standards and technologies that aid in data management and compares them to other technology business standards The reader receives practical guidance on how to segregate and separate data into zones as well as how to develop a model that can aid in data evolution It discusses security and the measures that are utilized to reduce the impact of security Self service analytics Data Lake Data Vault 2 0 and Data Mesh are discussed in the book After reading this book the reader will have a thorough understanding of how to structure a data lake as well as the ability to plan organize and carry out the implementation of a data driven business with full governance and security

WHAT YOU WILL LEARN Learn the basics of components to the Hadoop Ecosystem Understand the structure files and zones of a Data Lake Learn to implement the security part of the Hadoop Ecosystem Learn to work with the Data Vault 2 0 modeling Learn to develop a strategy to define good governance Learn new tools to work with Data and Big Data

WHO THIS BOOK IS FOR This book caters to big data developers technical specialists consultants and students who want to build good proficiency in big data Knowing basic SQL concepts modeling and development would be good although not mandatory

TABLE OF CONTENTS 1 Understanding the Current Moment 2 Defining the Zones 3 The Importance of Modeling 4 Massive Parallel Processing 5 Doing ETL ELT 6 A Little Governance 7 Talking About Security 8 What Are the Next Steps

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