Optimizing Hadoop for MapReduce

Learn how to configure your Hadoop cluster to run optimal MapReduce jobs

Khaled Tannir

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Optimizing Hadoop for MapReduce Khaled Tannir,2014-02-21 This book is an example based tutorial that deals with Optimizing Hadoop for MapReduce job performance If you are a Hadoop administrator developer MapReduce user or beginner this book is the best choice available if you wish to optimize your clusters and applications Having prior knowledge of creating MapReduce applications is not necessary but will help you better understand the concepts and snippets of MapReduce class template code *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 **Learning Predictive Analytics with R** Eric Mayor,2015-09-24 Get to grips with key data visualization and predictive analytic skills using R About This Book Acquire predictive analytic skills using various tools of R Make predictions about future events by discovering valuable information from data using R Comprehensible guidelines that focus on predictive model design with real world data Who This Book Is For If you are a statistician chief information officer data scientist ML engineer ML practitioner quantitative analyst and student of machine learning this is the book for you You should have basic knowledge of the use of R Readers without previous experience of programming in R will also be able to use the tools in the book What You Will Learn Customize R by installing and loading new packages Explore the structure of data using clustering algorithms Turn unstructured text into ordered data and acquire knowledge from the data Classify your observations using Naive Bayes k NN and decision trees Reduce the dimensionality of your data using principal component analysis Discover association rules using Apriori Understand how statistical distributions can help retrieve information from data using correlations linear regression and multilevel regression Use PMML to deploy the models generated in R In Detail R is statistical software that is used for data analysis There are two main types of learning from data unsupervised learning where the structure of data is extracted automatically and supervised learning where a labeled part of the data is used to learn the relationship or scores in a target attribute As important information is often hidden in a lot of data R helps to extract that information with its many standard and cutting edge statistical functions This book is packed with easy to follow guidelines that explain the workings of the many key data mining tools of R which are used to discover knowledge from your data You will learn how to perform key predictive analytics tasks using R such as train and test predictive models for classification and regression tasks score new data sets and so on All chapters will guide you in acquiring the skills in a practical way Most chapters also include a theoretical introduction that will sharpen your understanding of the subject matter and invite you to go further The book familiarizes you with the most common data mining tools of R such as k means hierarchical regression linear regression association rules principal component analysis multilevel modeling k NN Naive

Bayes decision trees and text mining It also provides a description of visualization techniques using the basic visualization tools of R as well as lattice for visualizing patterns in data organized in groups This book is invaluable for anyone fascinated by the data mining opportunities offered by GNU R and its packages Style and approach This is a practical book which analyzes compelling data about life health and death with the help of tutorials It offers you a useful way of interpreting the data that s specific to this book but that can also be applied to any other data 　　*MapReduce　Hadoop　* Posts & Telecom Press,Khaled Tannir,2024-05-16 Hadoop MapReduce Key Features MapReduce Book Description MapReduce Hadoop MapReduce Hadoop MapReduce MapReduce Hadoop MapReduce Hadoop Hadoop 1 What you will learn Hadoop Hadoop MapReduce mapper reducer Combiner map reduce Hadoop MapReduce Who this book is for Hadoop MapReduce MapReduce MapReduce 　　*Practical Data Analysis Cookbook* Tomasz Drabas,2016-04-29 Over 60 practical recipes on data exploration and analysis About This Book Clean dirty data extract accurate information and explore the relationships between variables Forecast the output of an electric plant and the water flow of American rivers using pandas NumPy Statsmodels and scikit learn Find and extract the most important features from your dataset using the most efficient Python libraries Who This Book Is For If you are a beginner or intermediate level professional who is looking to solve your day to day analytical problems with Python this book is for you Even with no prior programming and data analytics experience you will be able to finish each recipe and learn while doing so What You Will Learn Read clean transform and store your data usng Pandas and OpenRefine Understand your data and explore the relationships between variables using Pandas and D3 js Explore a variety of techniques to classify and cluster outbound marketing campaign calls data of a bank using Pandas mlpy NumPy and Statsmodels Reduce the dimensionality of your dataset and extract the most important features with pandas NumPy and mlpy Predict the output of a power plant with regression models and forecast water flow of American rivers with time series methods using pandas NumPy Statsmodels and scikit learn Explore social interactions and identify fraudulent activities with graph theory concepts using NetworkX and Gephi Scrape Internet web pages using urlib and BeautifulSoup and get to know natural language processing techniques to classify movies ratings using NLTK Study simulation techniques in an example of a gas station with agent based modeling In Detail Data analysis is the process of systematically applying statistical and logical techniques to describe and illustrate condense and recap and evaluate data Its importance has been most visible in the sector of information and communication technologies It is an employee asset in almost all economy sectors This book provides a rich set of independent recipes that dive into the world of data analytics and modeling using a variety of approaches tools and algorithms You will learn the basics of data handling and modeling and will build your skills gradually toward more advanced topics such as simulations raw text processing social interactions analysis and more First you will learn some easy to follow practical techniques on how to read write clean reformat explore and understand your data arguably the most time consuming and the most important tasks for any data scientist In the second section different

independent recipes delve into intermediate topics such as classification clustering predicting and more With the help of these easy to follow recipes you will also learn techniques that can easily be expanded to solve other real life problems such as building recommendation engines or predictive models In the third section you will explore more advanced topics from the field of graph theory through natural language processing discrete choice modeling to simulations You will also get to expand your knowledge on identifying fraud origin with the help of a graph scrape Internet websites and classify movies based on their reviews By the end of this book you will be able to efficiently use the vast array of tools that the Python environment has to offer Style and approach This hands on recipe guide is divided into three sections that tackle and overcome real world data modeling problems faced by data analysts scientist in their everyday work Each independent recipe is written in an easy to follow and step by step fashion *MongoDB High Availability* Afshin Mehrabani,2014-07-24 This book has a perfect balance of concepts and their practical implementation along with solutions to make a highly available MongoDB server with clear instructions and guidance If you are using MongoDB in a production environment and need a solution to make a highly available MongoDB server this book is ideal for you Familiarity with MongoDB is expected so that you understand the content of this book *Hadoop MapReduce v2 Cookbook - Second Edition* Thilina Gunarathne,2015-02-25 If you are a Big Data enthusiast and wish to use Hadoop v2 to solve your problems then this book is for you This book is for Java programmers with little to moderate knowledge of Hadoop MapReduce This is also a one stop reference for developers and system admins who want to quickly get up to speed with using Hadoop v2 It would be helpful to have a basic knowledge of software development using Java and a basic working knowledge of Linux **Hadoop in Practice** Alex Holmes,2014-09-29 Summary Hadoop in Practice Second Edition provides over 100 tested instantly useful techniques that will help you conquer big data using Hadoop This revised new edition covers changes and new features in the Hadoop core architecture including MapReduce 2 Brand new chapters cover YARN and integrating Kafka Impala and Spark SQL with Hadoop You ll also get new and updated techniques for Flume Sqoop and Mahout all of which have seen major new versions recently In short this is the most practical up to date coverage of Hadoop available anywhere Purchase of the print book includes a free eBook in PDF Kindle and ePub formats from Manning Publications About the Book It s always a good time to upgrade your Hadoop skills Hadoop in Practice Second Edition provides a collection of 104 tested instantly useful techniques for analyzing real time streams moving data securely machine learning managing large scale clusters and taming big data using Hadoop This completely revised edition covers changes and new features in Hadoop core including MapReduce 2 and YARN You ll pick up hands on best practices for integrating Spark Kafka and Impala with Hadoop and get new and updated techniques for the latest versions of Flume Sqoop and Mahout In short this is the most practical up to date coverage of Hadoop available Readers need to know a programming language like Java and have basic familiarity with Hadoop What s Inside Thoroughly updated for Hadoop 2 How to write YARN applications Integrate real time technologies like Storm Impala and Spark

Predictive analytics using Mahout and RR Readers need to know a programming language like Java and have basic familiarity with Hadoop About the Author Alex Holmes works on tough big data problems He is a software engineer author speaker and blogger specializing in large scale Hadoop projects Table of Contents PART 1 BACKGROUND AND FUNDAMENTALS Hadoop in a heartbeat Introduction to YARN PART 2 DATA LOGISTICS Data serialization working with text and beyond Organizing and optimizing data in HDFS Moving data into and out of Hadoop PART 3 BIG DATA PATTERNS Applying MapReduce patterns to big data Utilizing data structures and algorithms at scale Tuning debugging and testing PART 4 BEYOND MAPREDUCE SQL on Hadoop Writing a YARN application   Hadoop in Practice Alex Holmes,2014-10-12 Summary Hadoop in Practice Second Edition provides over 100 tested instantly useful techniques that will help you conquer big data using Hadoop This revised new edition covers changes and new features in the Hadoop core architecture including MapReduce 2 Brand new chapters cover YARN and integrating Kafka Impala and Spark SQL with Hadoop You ll also get new and updated techniques for Flume Sqoop and Mahout all of which have seen major new versions recently In short this is the most practical up to date coverage of Hadoop available anywhere Purchase of the print book includes a free eBook in PDF Kindle and ePub formats from Manning Publications About the Book It s always a good time to upgrade your Hadoop skills Hadoop in Practice Second Edition provides a collection of 104 tested instantly useful techniques for analyzing real time streams moving data securely machine learning managing large scale clusters and taming big data using Hadoop This completely revised edition covers changes and new features in Hadoop core including MapReduce 2 and YARN You ll pick up hands on best practices for integrating Spark Kafka and Impala with Hadoop and get new and updated techniques for the latest versions of Flume Sqoop and Mahout In short this is the most practical up to date coverage of Hadoop available Readers need to know a programming language like Java and have basic familiarity with Hadoop What s Inside Thoroughly updated for Hadoop 2 How to write YARN applications Integrate real time technologies like Storm Impala and Spark Predictive analytics using Mahout and RR Readers need to know a programming language like Java and have basic familiarity with Hadoop About the Author Alex Holmes works on tough big data problems He is a software engineer author speaker and blogger specializing in large scale Hadoop projects Table of Contents PART 1 BACKGROUND AND FUNDAMENTALS Hadoop in a heartbeat Introduction to YARN PART 2 DATA LOGISTICS Data serialization working with text and beyond Organizing and optimizing data in HDFS Moving data into and out of Hadoop PART 3 BIG DATA PATTERNS Applying MapReduce patterns to big data Utilizing data structures and algorithms at scale Tuning debugging and testing PART 4 BEYOND MAPREDUCE SQL on Hadoop Writing a YARN application   MapReduce Design Patterns Donald Miner,Adam Shook,2012-11-21 Until now design patterns for the MapReduce framework have been scattered among various research papers blogs and books This handy guide brings together a unique collection of valuable MapReduce patterns that will save you time and effort regardless of the domain language or development framework you re using Each pattern is explained in

context with pitfalls and caveats clearly identified to help you avoid common design mistakes when modeling your big data architecture This book also provides a complete overview of MapReduce that explains its origins and implementations and why design patterns are so important All code examples are written for Hadoop Summarization patterns get a top level view by summarizing and grouping data Filtering patterns view data subsets such as records generated from one user Data organization patterns reorganize data to work with other systems or to make MapReduce analysis easier Join patterns analyze different datasets together to discover interesting relationships Metapatterns piece together several patterns to solve multi stage problems or to perform several analytics in the same job Input and output patterns customize the way you use Hadoop to load or store data A clear exposition of MapReduce programs for common data processing patterns this book is indespensible for anyone using Hadoop Tom White author of Hadoop The Definitive Guide **Programming MapReduce with Scalding** Antonios Chalkiopoulos,2014-06-25 This book is an easy to understand practical guide to designing testing and implementing complex MapReduce applications in Scala using the Scalding framework It is packed with examples featuring log processing ad targeting and machine learning This book is for developers who are willing to discover how to effectively develop MapReduce applications Prior knowledge of Hadoop or Scala is not required however investing some time on those topics would certainly be beneficial **Expert Hadoop Administration** Sam R. Alapati,2016-11-29 This is the eBook of the printed book and may not include any media website access codes or print supplements that may come packaged with the bound book The Comprehensive Up to Date Apache Hadoop Administration Handbook and Reference Sam Alapati has worked with production Hadoop clusters for six years His unique depth of experience has enabled him to write the go to resource for all administrators looking to spec size expand and secure production Hadoop clusters of any size Paul Dix Series Editor In Expert Hadoop Administration leading Hadoop administrator Sam R Alapati brings together authoritative knowledge for creating configuring securing managing and optimizing production Hadoop clusters in any environment Drawing on his experience with large scale Hadoop administration Alapati integrates action oriented advice with carefully researched explanations of both problems and solutions He covers an unmatched range of topics and offers an unparalleled collection of realistic examples Alapati demystifies complex Hadoop environments helping you understand exactly what happens behind the scenes when you administer your cluster You ll gain unprecedented insight as you walk through building clusters from scratch and configuring high availability performance security encryption and other key attributes The high value administration skills you learn here will be indispensable no matter what Hadoop distribution you use or what Hadoop applications you run Understand Hadoop s architecture from an administrator s standpoint Create simple and fully distributed clusters Run MapReduce and Spark applications in a Hadoop cluster Manage and protect Hadoop data and high availability Work with HDFS commands file permissions and storage management Move data and use YARN to allocate resources and schedule jobs Manage job workflows with Oozie and Hue Secure monitor log and optimize Hadoop Benchmark

and troubleshoot Hadoop   Big Data with Hadoop MapReduce Rathinaraja Jeyaraj,Ganeshkumar Pugalendhi,Anand Paul,2020-05-01 The authors provide an understanding of big data and MapReduce by clearly presenting the basic terminologies and concepts They have employed over 100 illustrations and many worked out examples to convey the concepts and methods used in big data the inner workings of MapReduce and single node multi node installation on physical virtual machines This book covers almost all the necessary information on Hadoop MapReduce for most online certification exams Upon completing this book readers will find it easy to understand other big data processing tools such as Spark Storm etc Ultimately readers will be able to understand what big data is and the factors that are involved understand the inner workings of MapReduce which is essential for certification exams learn the features and weaknesses of MapReduce set up Hadoop clusters with 100s of physical virtual machines create a virtual machine in AWS write MapReduce with Eclipse in a simple way understand other big data processing tools and their applications   **Apache Hadoop YARN** Arun Murthy,Vinod Vavilapalli,Douglas Eadline,Joseph Niemiec,Jeff Markham,2014-03-14 This book is a critically needed resource for the newly released Apache Hadoop 2 0 highlighting YARN as the significant breakthrough that broadens Hadoop beyond the MapReduce paradigm From the Foreword by Raymie Stata CEO of Altiscale The Insider s Guide to Building Distributed Big Data Applications with Apache Hadoop YARN Apache Hadoop is helping drive the Big Data revolution Now its data processing has been completely overhauled Apache Hadoop YARN provides resource management at data center scale and easier ways to create distributed applications that process petabytes of data And now in Apache Hadoop YARN two Hadoop technical leaders show you how to develop new applications and adapt existing code to fully leverage these revolutionary advances YARN project founder Arun Murthy and project lead Vinod Kumar Vavilapalli demonstrate how YARN increases scalability and cluster utilization enables new programming models and services and opens new options beyond Java and batch processing They walk you through the entire YARN project lifecycle from installation through deployment You ll find many examples drawn from the authors cutting edge experience first as Hadoop s earliest developers and implementers at Yahoo and now as Hortonworks developers moving the platform forward and helping customers succeed with it Coverage includes YARN s goals design architecture and components how it expands the Apache Hadoop ecosystem Exploring YARN on a single node Administering YARN clusters and Capacity Scheduler Running existing MapReduce applications Developing a large scale clustered YARN application Discovering new open source frameworks that run under YARN   Scaling Big Data with Hadoop and Solr Hrishikesh Karambelkar,2013 As data grows exponentially day by day extracting information becomes a tedious activity in itself Technologies like Hadoop are trying to address some of the concerns while Solr provides high speed faceted search Bringing these two technologies together is helping organizations resolve the problem of information extraction from Big Data by providing excellent distributed faceted search capabilities Scaling Big Data with Hadoop and Solr is a step by step guide that helps you build high performance enterprise search engines while scaling data

Starting with the basics of Apache Hadoop and Solr this book then dives into advanced topics of optimizing search with some interesting real world use cases and sample Java code Scaling Big Data with Hadoop and Solr starts by teaching you the basics of Big Data technologies including Hadoop and its ecosystem and Apache Solr It explains the different approaches of scaling Big Data with Hadoop and Solr with discussion regarding the applicability benefits and drawbacks of each approach It then walks readers through how sharding and indexing can be performed on Big Data followed by the performance optimization of Big Data search Finally it covers some real world use cases for Big Data scaling With this book you will learn everything you need to know to build a distributed enterprise search platform as well as how to optimize this search to a greater extent resulting in maximum utilization of available resources **Data Algorithms** Mahmoud Parsian,2015-07-13 If you are ready to dive into the MapReduce framework for processing large datasets this practical book takes you step by step through the algorithms and tools you need to build distributed MapReduce applications with Apache Hadoop or Apache Spark Each chapter provides a recipe for solving a massive computational problem such as building a recommendation system You ll learn how to implement the appropriate MapReduce solution with code that you can use in your projects Dr Mahmoud Parsian covers basic design patterns optimization techniques and data mining and machine learning solutions for problems in bioinformatics genomics statistics and social network analysis This book also includes an overview of MapReduce Hadoop and Spark Topics include Market basket analysis for a large set of transactions Data mining algorithms K means KNN and Naive Bayes Using huge genomic data to sequence DNA and RNA Naive Bayes theorem and Markov chains for data and market prediction Recommendation algorithms and pairwise document similarity Linear regression Cox regression and Pearson correlation Allelic frequency and mining DNA Social network analysis recommendation systems counting triangles sentiment analysis 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 **Hadoop MapReduce Cookbook** Srinath Perera,Thilina Gunarathne,2013 Individual self contained code recipes Solve specific problems using individual recipes or work through the book to develop your capabilities If you are a big data enthusiast and striving to use Hadoop to solve your problems this book is for you Aimed at Java programmers with some knowledge of Hadoop MapReduce this is also a comprehensive reference for developers and system admins who want to get up to speed using Hadoop *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 **Data-intensive Text Processing with MapReduce** Jimmy Lin,Chris

Dyer,2010 This volume is a printed version of a work that appears in the Synthesis Digital Library of Engineering and Computer Science Synthesis Lectures provide concise original presentations of important research and development topics published quickly in digital and print formats For more information visit www morganclaypool com Book Jacket

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Optimizing Hadoop For Mapreduce Tannir Khaled Introduction

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