Quick answers to common problems

Hadoop MapReduce v2 Cookbook

Second Edition

Explore the Hadoop MapReduce v2 ecosystem to gain insights
from very large datasets

Thilina Gunarathne

[PACKT] open source*
PUBLISHING   community experience distilled

Hadoop Mapreduce V2 Cookbook Second Edition

M Woodhall

Hadoop Mapreduce V2 Cookbook Second Edition:

   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 MapReduce V2 Cookbook - Second Edition** Thilina Gunarathne,2015 Explore the Hadoop MapReduce v2 ecosystem to gain insights from very large datasets In Detail Starting with installing Hadoop YARN MapReduce HDFS and other Hadoop ecosystem components with this book you will soon learn about many exciting topics such as MapReduce patterns using Hadoop to solve analytics classifications online marketing recommendations and data indexing and searching You will learn how to take advantage of Hadoop ecosystem projects including Hive HBase Pig Mahout Nutch and Giraph and be introduced to deploying in cloud environments Finally you will be able to apply the knowledge you have gained to your own real world scenarios to achieve the best possible results What You Will Learn Configure and administer Hadoop YARN MapReduce v2 and HDFS clusters Use Hive HBase Pig Mahout and Nutch with Hadoop v2 to solve your big data problems easily and effectively Solve large scale analytics problems using MapReduce based applications Tackle complex problems such as classifications finding relationships online marketing recommendations and searching using Hadoop MapReduce and other related projects Perform massive text data processing using Hadoop MapReduce and other related projects Deploy your clusters to cloud environments Downloading the example code for this book You can download the example code files for all Packt books you have purchased from your account at http www PacktPub com If you purchased this book elsewhere you can visit http www PacktPub com support and register to have the files e mailed directly to you   *Elasticsearch for Hadoop* Vishal Shukla,2015-10-27 Integrate Elasticsearch into Hadoop to effectively visualize and analyze your data About This Book Build production ready analytics applications by integrating the Hadoop ecosystem with Elasticsearch Learn complex Elasticsearch queries and develop real time monitoring Kibana dashboards to visualize your data Use Elasticsearch and Kibana to search data in Hadoop easily with this comprehensive step by step guide Who This Book Is For This book is targeted at Java developers with basic knowledge on Hadoop No prior Elasticsearch experience is expected What You Will Learn Set up the Elasticsearch Hadoop environment Import HDFS data into Elasticsearch with MapReduce jobs Perform full text search and aggregations efficiently using Elasticsearch Visualize data and create interactive dashboards using Kibana Check and detect anomalies in streaming data using Storm and Elasticsearch Inject and classify real time streaming data into Elasticsearch Get production ready for Elasticsearch Hadoop based projects Integrate with Hadoop eco system such as Pig Storm Hive and Spark In Detail The Hadoop ecosystem is a de facto standard for processing terra bytes and peta bytes of data Lucene enabled Elasticsearch is becoming an industry

standard for its full text search and aggregation capabilities Elasticsearch Hadoop serves as a perfect tool to bridge the worlds of Elasticsearch and Hadoop ecosystem to get best out of both the worlds Powered with Kibana this stack makes it a cakewalk to get surprising insights out of your massive amount of Hadoop ecosystem in a flash In this book you ll learn to use Elasticsearch Kibana and Elasticsearch Hadoop effectively to analyze and understand your HDFS and streaming data You begin with an in depth understanding of the Hadoop Elasticsearch Marvel and Kibana setup Right after this you will learn to successfully import Hadoop data into Elasticsearch by writing MapReduce job in a real world example This is then followed by a comprehensive look at Elasticsearch essentials such as full text search analysis queries filters and aggregations after which you gain an understanding of creating various visualizations and interactive dashboard using Kibana Classifying your real world streaming data and identifying trends in it using Storm and Elasticsearch are some of the other topics that we ll cover You will also gain an insight about key concepts of Elasticsearch and Elasticsearch hadoop in distributed mode advanced configurations along with some common configuration presets you may need for your production deployments You will have Go production checklist and high level view for cluster administration for post production Towards the end you will learn to integrate Elasticsearch with other Hadoop eco system tools such as Pig Hive and Spark Style and approach A concise yet comprehensive approach has been adopted with real time examples to help you grasp the concepts easily **Big Data Forensics – Learning Hadoop Investigations** Joe Sremack,2015-09-24 Perform forensic investigations on Hadoop clusters with cutting edge tools and techniques About This Book Identify collect and analyze Hadoop evidence forensically Learn about Hadoop s internals and Big Data file storage concepts A step by step guide to help you perform forensic analysis using freely available tools Who This Book Is For This book is meant for statisticians and forensic analysts with basic knowledge of digital forensics They do not need to know Big Data Forensics If you are an IT professional law enforcement professional legal professional or a student interested in Big Data and forensics this book is the perfect hands on guide for learning how to conduct Hadoop forensic investigations Each topic and step in the forensic process is described in accessible language What You Will Learn Understand Hadoop internals and file storage Collect and analyze Hadoop forensic evidence Perform complex forensic analysis for fraud and other investigations Use state of the art forensic tools Conduct interviews to identify Hadoop evidence Create compelling presentations of your forensic findings Understand how Big Data clusters operate Apply advanced forensic techniques in an investigation including file carving statistical analysis and more In Detail Big Data forensics is an important type of digital investigation that involves the identification collection and analysis of large scale Big Data systems Hadoop is one of the most popular Big Data solutions and forensically investigating a Hadoop cluster requires specialized tools and techniques With the explosion of Big Data forensic investigators need to be prepared to analyze the petabytes of data stored in Hadoop clusters Understanding Hadoop s operational structure and performing forensic analysis with court accepted tools and best practices will help you conduct a successful investigation Discover how to perform a

complete forensic investigation of large scale Hadoop clusters using the same tools and techniques employed by forensic experts This book begins by taking you through the process of forensic investigation and the pitfalls to avoid It will walk you through Hadoop s internals and architecture and you will discover what types of information Hadoop stores and how to access that data You will learn to identify Big Data evidence using techniques to survey a live system and interview witnesses After setting up your own Hadoop system you will collect evidence using techniques such as forensic imaging and application based extractions You will analyze Hadoop evidence using advanced tools and techniques to uncover events and statistical information Finally data visualization and evidence presentation techniques are covered to help you properly communicate your findings to any audience Style and approach This book is a complete guide that follows every step of the forensic analysis process in detail You will be guided through each key topic and step necessary to perform an investigation Hands on exercises are presented throughout the book and technical reference guides and sample documents are included for real world use *Learning Cascading* Michael Covert,Victoria Loewengart,2015-05-29 This book is intended for software developers system architects and analysts big data project managers and data scientists who wish to deploy big data solutions using the Cascading framework You must have a basic understanding of the big data paradigm and should be familiar with Java development techniques **Big Data Analytics: Applications, Hadoop Technologies and Hive** Dr.P.Pushpa,Dr.V.Thamilarasi, Dr. S. Lakshmi Prabha,Mrs.Sudha Nagarajan,2024-04-22 Dr P Pushpa Lecturer School of Software Engineering East China University of Technology Nanchang Jiangxi China Dr V Thamilarasi Assistant Professor Department of Computer Science Sri Sarada College for Women Autonomous Salem Tamil Nadu India Dr S Lakshmi Prabha Associate Professor Department of Computer Science Seethalakshmi Ramaswami College Tiruchirappalli Tamil Nadu India Mrs Sudha Nagarajan Assistant Professor Department of Computer Science Excel College for Commerce and Science Komarapalayam Namakkal Tamil Nadu India **Monitoring Hadoop** Gurmukh Singh,2015-04-28 This book is useful for Hadoop administrators who need to learn how to monitor and diagnose their clusters Also the book will prove useful for new users of the technology as the language used is simple and easy to grasp Data Analysis and Business Modeling with Excel 2013 David Rojas,2015-10-27 Manage analyze and visualize data with Microsoft Excel 2013 to transform raw data into ready to use information About This Book Create formulas to help you analyze and explain findings Develop interactive spreadsheets that will impress your audience and give them the ability to slice and dice data A step by step guide to learn various ways to model data for businesses with the help of Excel 2013 Who This Book Is For If you want to start using Excel 2013 for data analysis and business modeling and enhance your skills in the data analysis life cycle then this book is for you whether you re new to Excel or experienced What You Will Learn Discover what Excel formulas are all about and how to use them in your spreadsheet development Identify bad data and learn cleaning strategies Create interactive spreadsheets that engage and appeal to your audience Leverage Excel s powerful built in tools to get the median maximum and minimum

values of your data Build impressive tables and combine datasets using Excel s built in functionality Learn the powerful scripting language VBA allowing you to implement your own custom solutions with ease In Detail Excel 2013 is one of the easiest to use data analysis tools you will ever come across Its simplicity and powerful features has made it the go to tool for all your data needs Complex operations with Excel such as creating charts and graphs visualization and analyzing data make it a great tool for managers data scientists financial data analysts and those who work closely with data Learning data analysis and will help you bring your data skills to the next level This book starts by walking you through creating your own data and bringing data into Excel from various sources You ll learn the basics of SQL syntax and how to connect it to a Microsoft SQL Server Database using Excel s data connection tools You will discover how to spot bad data and strategies to clean that data to make it useful to you Next you ll learn to create custom columns identify key metrics and make decisions based on business rules You ll create macros using VBA and use Excel 2013 s shiny new macros Finally at the end of the book you ll be provided with useful shortcuts and tips enabling you to do efficient data analysis and business modeling with Excel 2013 Style and approach This is a step by step guide to performing data analysis and business modelling with Excel 2013 complete with examples and tips **Troubleshooting Ubuntu Server** Skanda Bhargav,2015-09-25 Make life at the office easier for server administrators by helping them build resilient Ubuntu server systems About This Book Tackle the issues you come across in keeping your Ubuntu server up and running Build server machines and troubleshoot cloud computing related issues using Open Stack Discover tips and best practices to be followed for minimum maintenance of Ubuntu Server 3 Who This Book Is For This book is for a vast audience of Linux system administrators who primarily work on Debian based systems and spend long hours trying fix issues with the enterprise server Ubuntu is already one of the most popular OSes and this book targets the most common issues that most administrators have to deal with With the right tools and definite solutions you will be able to keep your Ubuntu servers in the pink of health What You Will Learn Deploy packages and their dependencies with repositories Set up your own DNS and network for Ubuntu Server Authenticate and validate users and their access to various systems and services Maintain monitor and optimize your server resources and avoid tremendous load Get to know about processes assigning and changing priorities and running processes in background Optimize your shell with tools and provide users with an improved shell experience Set up separate environments for various services and run them safely in isolation Understand build and deploy OpenStack on your Ubuntu Server In Detail Ubuntu is becoming one of the favorite Linux flavors for many enterprises and is being adopted to a large extent It supports a wide variety of common network systems and the use of standard Internet services including file serving e mail Web DNS and database management A large scale use and implementation of Ubuntu on servers has given rise to a vast army of Linux administrators who battle it out day in and day out to make sure the systems are in the right frame of operation and pre empt any untoward incidents that may result in catastrophes for the businesses using it Despite all these efforts glitches and bugs occur that affect Ubuntu

server s network memory application and hardware and also generate cloud computing related issues using OpenStack This book will help you end to end Right from setting up your new Ubuntu Server to learning the best practices to host OpenStack without any hassles You will be able to control the priority of jobs restrict or allow access users to certain services deploy packages tackle issues related to server effectively and reduce downtime Also you will learn to set up OpenStack and manage and monitor its services while tuning the machine with best practices You will also get to know about Virtualization to make services serve users better Chapter by chapter you will learn to add new features and functionalities and make your Ubuntu server a full fledged production ready system Style and approach This book contains topic by topic discussion in an easy to understand language with loads of examples to help you take care of Ubuntu Server Plenty of screenshots will guide you through a step by step approach **AI-Centric Modeling and Analytics** Alex Khang,Vugar Abdullayev,Babasaheb Jadhav,Shashi Gupta,Gilbert Morris,2023-12-06 This book shares new methodologies technologies and practices for resolving issues associated with leveraging AI centric modeling data analytics machine learning aided models Internet of Things driven applications and cybersecurity techniques in the era of Industrial Revolution 4 0 AI Centric Modeling and Analytics Concepts Technologies and Applications focuses on how to implement solutions using models and techniques to gain insights predict outcomes and make informed decisions This book presents advanced AI centric modeling and analysis techniques that facilitate data analytics and learning in various applications It offers fundamental concepts of advanced techniques technologies and tools along with the concept of real time analysis systems It also includes AI centric approaches for the overall innovation development and implementation of business development and management systems along with a discussion of AI centric robotic process automation systems that are useful in many government and private industries This reference book targets a mixed audience of engineers and business analysts researchers professionals and students from various fields *Big Data Analytics with R* Simon Walkowiak,2016-07-29 Utilize R to uncover hidden patterns in your Big Data About This Book Perform computational analyses on Big Data to generate meaningful results Get a practical knowledge of R programming language while working on Big Data platforms like Hadoop Spark H2O and SQL NoSQL databases Explore fast streaming and scalable data analysis with the most cutting edge technologies in the market Who This Book Is For This book is intended for Data Analysts Scientists Data Engineers Statisticians Researchers who want to integrate R with their current or future Big Data workflows It is assumed that readers have some experience in data analysis and understanding of data management and algorithmic processing of large quantities of data however they may lack specific skills related to R What You Will Learn Learn about current state of Big Data processing using R programming language and its powerful statistical capabilities Deploy Big Data analytics platforms with selected Big Data tools supported by R in a cost effective and time saving manner Apply the R language to real world Big Data problems on a multi node Hadoop cluster e g electricity consumption across various socio demographic indicators and bike share scheme usage Explore the compatibility of R with

Hadoop Spark SQL and NoSQL databases and H2O platform In Detail Big Data analytics is the process of examining large and complex data sets that often exceed the computational capabilities R is a leading programming language of data science consisting of powerful functions to tackle all problems related to Big Data processing The book will begin with a brief introduction to the Big Data world and its current industry standards With introduction to the R language and presenting its development structure applications in real world and its shortcomings Book will progress towards revision of major R functions for data management and transformations Readers will be introduce to Cloud based Big Data solutions e g Amazon EC2 instances and Amazon RDS Microsoft Azure and its HDInsight clusters and also provide guidance on R connectivity with relational and non relational databases such as MongoDB and HBase etc It will further expand to include Big Data tools such as Apache Hadoop ecosystem HDFS and MapReduce frameworks Also other R compatible tools such as Apache Spark its machine learning library Spark MLlib as well as H2O Style and approach This book will serve as a practical guide to tackling Big Data problems using R programming language and its statistical environment Each section of the book will present you with concise and easy to follow steps on how to process transform and analyse large data sets **Intelligent Systems Design and Applications** Ajith Abraham,Patrick Siarry,Kun Ma,Arturas Kaklauskas,2020-08-14 This book highlights recent research on intelligent systems and nature inspired computing It presents 62 selected papers from the 19th International Conference on Intelligent Systems Design and Applications ISDA 2019 which was held online The ISDA is a premier conference in the field of computational intelligence and the latest installment brought together researchers engineers and practitioners whose work involves intelligent systems and their applications in industry Including contributions by authors from 33 countries the book offers a valuable reference guide for all researchers students and practitioners in the fields of Computer Science and Engineering **Information and Communication Technology for Development for Africa** Fisseha Mekuria,Ethiopia Nigussie,Tesfa Tegegne,2019-08-01 This book constitutes the proceedings of the Second International Conference on Information and Communication Technology for Development for Africa ICT4DA 2019 held in Bahir Dar Ethiopia in May 2019 The 29 revised full papers presented were carefully reviewed and selected from 69 submissions The papers address the impact of ICT in fostering economic development in Africa In detail they cover the following topics artificial intelligence and data science wireless and mobile computing and Natural Language Processing **HBase High Performance Cookbook** Ruchir Choudhry,2017-01-31 Exciting projects that will teach you how complex data can be exploited to gain maximum insights About This Book Architect a good HBase cluster for a very large distributed system Get to grips with the concepts of performance tuning with HBase A practical guide full of engaging recipes and attractive screenshots to enhance your system s performance Who This Book Is For This book is intended for developers and architects who want to know all about HBase at a hands on level This book is also for big data enthusiasts and database developers who have worked with other NoSQL databases and now want to explore HBase as another futuristic scalable database solution in the big data space What You

Will Learn Configure HBase from a high performance perspective Grab data from various RDBMS Flat files into the HBASE systems Understand table design and perform CRUD operations Find out how the communication between the client and server happens in HBase Grasp when to use and avoid MapReduce and how to perform various tasks with it Get to know the concepts of scaling with HBase through practical examples Set up Hbase in the Cloud for a small scale environment Integrate HBase with other tools including ElasticSearch In Detail Apache HBase is a non relational NoSQL database management system that runs on top of HDFS It is an open source disturbed versioned column oriented store and is written in Java to provide random real time access to big Data We ll start off by ensuring you have a solid understanding the basics of HBase followed by giving you a thorough explanation of architecting a HBase cluster as per our project specifications Next we will explore the scalable structure of tables and we will be able to communicate with the HBase client After this we ll show you the intricacies of MapReduce and the art of performance tuning with HBase Following this we ll explain the concepts pertaining to scaling with HBase Finally you will get an understanding of how to integrate HBase with other tools such as ElasticSearch By the end of this book you will have learned enough to exploit HBase for boost system performance Style and approach This book is intended for software quality assurance testing professionals software project managers or software developers with prior experience in using Selenium and Java to test web based applications This books also provides examples for C Python and Ruby users   **Hadoop MapReduce Cookbook** Srinath Perera,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   **Hadoop MapReduce Cookbook** Mulhim Morcos,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 print collection Exabytes zettabytes and yottabytes definitely are on the horizon Data is pouring in from every conceivable direction from operational and transactional systems from scanning and facilities management systems from inbound and outbound customer contact points from mobile media and the Web   Hadoop Real-World Solutions Cookbook Second Edition Tanmay Deshpande,2016-03-29 Over 90 hands on recipes to help you learn and master the intricacies of Apache Hadoop 2 X YARN Hive Pig Oozie Flume Sqoop Apache Spark and MahoutAbout This Book Implement outstanding Machine Learning use cases on your own analytics models and processes Solutions to common problems when working with the Hadoop ecosystem Step by step implementation of end to end big data use cases Who This Book Is ForReaders who have a basic knowledge of big data systems and want to advance their knowledge with hands on recipes What You Will Learn Installing and maintaining Hadoop 2 X cluster and its ecosystem Write advanced Map Reduce programs and understand design patterns Advanced Data Analysis using the Hive Pig and Map Reduce programs Import and export data from various sources using Sqoop and Flume Data storage in various file formats such as Text Sequential Parquet ORC and RC Files Machine learning principles with libraries such as Mahout Batch and Stream data processing using Apache SparkIn DetailBig

data is the current requirement Most organizations produce huge amount of data every day With the arrival of Hadoop like tools it has become easier for everyone to solve big data problems with great efficiency and at minimal cost Grasping Machine Learning techniques will help you greatly in building predictive models and using this data to make the right decisions for your organization Hadoop Real World Solutions Cookbook gives readers insights into learning and mastering big data via recipes The book not only clarifies most big data tools in the market but also provides best practices for using them The book provides recipes that are based on the latest versions of Apache Hadoop 2 X YARN Hive Pig Sqoop Flume Apache Spark Mahout and many more such ecosystem tools This real world solution cookbook is packed with handy recipes you can apply to your own everyday issues Each chapter provides in depth recipes that can be referenced easily This book provides detailed practices on the latest technologies such as YARN and Apache Spark Readers will be able to consider themselves as big data experts on completion of this book This guide is an invaluable tutorial if you are planning to implement a big data warehouse for your business Style and approachAn easy to follow guide that walks you through world of big data Each tool in the Hadoop ecosystem is explained in detail and the recipes are placed in such a manner that readers can implement them sequentially Plenty of reference links are provided for advanced reading   Hadoop Real-World Solutions Cookbook Tanmay Deshpande,2016-03-31 Over 90 hands on recipes to help you learn and master the intricacies of Apache Hadoop 2 X YARN Hive Pig Oozie Flume Sqoop Apache Spark and Mahout About This Book Implement outstanding Machine Learning use cases on your own analytics models and processes Solutions to common problems when working with the Hadoop ecosystem Step by step implementation of end to end big data use cases Who This Book Is For Readers who have a basic knowledge of big data systems and want to advance their knowledge with hands on recipes What You Will Learn Installing and maintaining Hadoop 2 X cluster and its ecosystem Write advanced Map Reduce programs and understand design patterns Advanced Data Analysis using the Hive Pig and Map Reduce programs Import and export data from various sources using Sqoop and Flume Data storage in various file formats such as Text Sequential Parquet ORC and RC Files Machine learning principles with libraries such as Mahout Batch and Stream data processing using Apache Spark In Detail Big data is the current requirement Most organizations produce huge amount of data every day With the arrival of Hadoop like tools it has become easier for everyone to solve big data problems with great efficiency and at minimal cost Grasping Machine Learning techniques will help you greatly in building predictive models and using this data to make the right decisions for your organization Hadoop Real World Solutions Cookbook gives readers insights into learning and mastering big data via recipes The book not only clarifies most big data tools in the market but also provides best practices for using them The book provides recipes that are based on the latest versions of Apache Hadoop 2 X YARN Hive Pig Sqoop Flume Apache Spark Mahout and many more such ecosystem tools This real world solution cookbook is packed with handy recipes you can apply to your own everyday issues Each chapter provides in depth recipes that can be referenced easily This book

provides detailed practices on the latest technologies such as YARN and Apache Spark Readers will be able to consider themselves as big data experts on completion of this book This guide is an invaluable tutorial if you are planning to implement a big data warehouse for your business Style and approach An easy to follow guide that walks you through world of big data Each tool in the Hadoop ecosystem is explained in detail and the recipes are placed in such a manner that readers can implement them sequentially Plenty of reference links are provided for advanced reading *Hadoop Operations and Cluster Management Cookbook* Shumin Guo,2013 **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

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Table of Contents Hadoop Mapreduce V2 Cookbook Second Edition

1. Understanding the eBook Hadoop Mapreduce V2 Cookbook Second Edition
    - The Rise of Digital Reading Hadoop Mapreduce V2 Cookbook Second Edition
    - Advantages of eBooks Over Traditional Books
2. Identifying Hadoop Mapreduce V2 Cookbook Second Edition
    - Exploring Different Genres
    - Considering Fiction vs. Non-Fiction
    - Determining Your Reading Goals
3. Choosing the Right eBook Platform
    - Popular eBook Platforms
    - Features to Look for in an Hadoop Mapreduce V2 Cookbook Second Edition
    - User-Friendly Interface
4. Exploring eBook Recommendations from Hadoop Mapreduce V2 Cookbook Second Edition
    - Personalized Recommendations
    - Hadoop Mapreduce V2 Cookbook Second Edition User Reviews and Ratings
    - Hadoop Mapreduce V2 Cookbook Second Edition and Bestseller Lists
5. Accessing Hadoop Mapreduce V2 Cookbook Second Edition Free and Paid eBooks
    - Hadoop Mapreduce V2 Cookbook Second Edition Public Domain eBooks
    - Hadoop Mapreduce V2 Cookbook Second Edition eBook Subscription Services
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Hadoop Mapreduce V2 Cookbook Second Edition Introduction

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