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# Hadoop MapReduce v2 Cookbook *Second Edition*

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

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# Hadoop Mapreduce V2 Cookbook Second Edition

## Gunarathne Thilina

**Tanmay Deshpande**



## **Hadoop Mapreduce V2 Cookbook Second Edition Gunarathne Thilina:**

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

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

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*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 *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

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**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 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



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## **Table of Contents Hadoop Mapreduce V2 Cookbook Second Edition Gunarathne Thilina**

1. Understanding the eBook Hadoop Mapreduce V2 Cookbook Second Edition Gunarathne Thilina
  - The Rise of Digital Reading Hadoop Mapreduce V2 Cookbook Second Edition Gunarathne Thilina
  - Advantages of eBooks Over Traditional Books
2. Identifying Hadoop Mapreduce V2 Cookbook Second Edition Gunarathne Thilina
  - 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 Gunarathne Thilina
  - User-Friendly Interface
4. Exploring eBook Recommendations from Hadoop Mapreduce V2 Cookbook Second Edition Gunarathne Thilina
  - Personalized Recommendations
  - Hadoop Mapreduce V2 Cookbook Second Edition Gunarathne Thilina User Reviews and Ratings
  - Hadoop Mapreduce V2 Cookbook Second Edition Gunarathne Thilina and Bestseller Lists
5. Accessing Hadoop Mapreduce V2 Cookbook Second Edition Gunarathne Thilina Free and Paid eBooks
  - Hadoop Mapreduce V2 Cookbook Second Edition Gunarathne Thilina Public Domain eBooks
  - Hadoop Mapreduce V2 Cookbook Second Edition Gunarathne Thilina eBook Subscription Services
  - Hadoop Mapreduce V2 Cookbook Second Edition Gunarathne Thilina Budget-Friendly Options

6. Navigating Hadoop Mapreduce V2 Cookbook Second Edition Gunarathne Thilina eBook Formats
  - ePub, PDF, MOBI, and More
  - Hadoop Mapreduce V2 Cookbook Second Edition Gunarathne Thilina Compatibility with Devices
  - Hadoop Mapreduce V2 Cookbook Second Edition Gunarathne Thilina Enhanced eBook Features
7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Hadoop Mapreduce V2 Cookbook Second Edition Gunarathne Thilina
  - Highlighting and Note-Taking Hadoop Mapreduce V2 Cookbook Second Edition Gunarathne Thilina
  - Interactive Elements Hadoop Mapreduce V2 Cookbook Second Edition Gunarathne Thilina
8. Staying Engaged with Hadoop Mapreduce V2 Cookbook Second Edition Gunarathne Thilina
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Hadoop Mapreduce V2 Cookbook Second Edition Gunarathne Thilina
9. Balancing eBooks and Physical Books Hadoop Mapreduce V2 Cookbook Second Edition Gunarathne Thilina
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Hadoop Mapreduce V2 Cookbook Second Edition Gunarathne Thilina
10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
11. Cultivating a Reading Routine Hadoop Mapreduce V2 Cookbook Second Edition Gunarathne Thilina
  - Setting Reading Goals Hadoop Mapreduce V2 Cookbook Second Edition Gunarathne Thilina
  - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Hadoop Mapreduce V2 Cookbook Second Edition Gunarathne Thilina
  - Fact-Checking eBook Content of Hadoop Mapreduce V2 Cookbook Second Edition Gunarathne Thilina
  - Distinguishing Credible Sources
13. Promoting Lifelong Learning
  - Utilizing eBooks for Skill Development
  - Exploring Educational eBooks
14. Embracing eBook Trends
  - Integration of Multimedia Elements

- Interactive and Gamified eBooks

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