



Quick answers to common problems

Hadoop Real-World Solutions Cookbook

Second Edition

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

Tanmay Deshpande



Hadoop Real World Solutions Cookbook

**Alla G. Kravets, Maxim
Shcherbakov, Danila Parygin, Peter P.
Groumpos**



Hadoop Real World Solutions Cookbook:

Hadoop Real World Solutions Cookbook Jonathan R. Owens, 2013 Realistic simple code examples to solve problems at scale with Hadoop and related technologies *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 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 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 Real World Solutions Cookbook Jonathan R. Owens,Jon Lentz,Brian Femiano,2013 Realistic simple code examples to solve problems at scale with Hadoop and related technologies

Hadoop Real-World Solutions Cookbook Tanmay Deshpande,2016 Call Data Record Analytics using Hive

Hadoop Real-World Solutions Cookbook Mulhim Morcos,2014-11-03 Big data is a relative term describing a situation where the volume velocity and variety of data exceed an organization s storage or compute capacity for accurate and timely decision making Big data is not a single technology but a combination of old and new technologies that helps companies gain actionable insight Therefore big data is the capability to manage a huge volume of disparate data at the right speed and within the right time frame to allow real time analysis and reaction As we note earlier in this chapter big data is typically broken down by three characteristics Volume How much data Velocity How fast that data is processed Variety The various types of data Although it s convenient to simplify big data into the three Vs it can be misleading and overly simplistic For example you may be managing a relatively small amount of very disparate complex data or you may be processing a huge volume of very simple data That simple data may be all structured or all unstructured Even more important is the fourth V veracity How accurate is that data in predicting business value Do the results of a big data analysis actually make sense Determining relevant data is key to delivering value from massive amounts of data However big data is defined less by

volume which is a constantly moving target than by its ever increasing variety velocity variability and complexity

Hadoop: Data Processing and Modelling Garry Turkington, Tanmay Deshpande, Sandeep Karanth, 2016-08-31 Unlock the power of your data with Hadoop 2 X ecosystem and its data warehousing techniques across large data sets About This Book Conquer the mountain of data using Hadoop 2 X tools The authors succeed in creating a context for Hadoop and its ecosystem Hands on examples and recipes giving the bigger picture and helping you to master Hadoop 2 X data processing platforms Overcome the challenging data processing problems using this exhaustive course with Hadoop 2 X Who This Book Is For This course is for Java developers who know scripting wanting a career shift to Hadoop Big Data segment of the IT industry So if you are a novice in Hadoop or an expert this book will make you reach the most advanced level in Hadoop 2 X What You Will Learn Best practices for setup and configuration of Hadoop clusters tailoring the system to the problem at hand Integration with relational databases using Hive for SQL queries and Sqoop for data transfer Installing and maintaining Hadoop 2 X cluster and its ecosystem Advanced Data Analysis using the Hive Pig and Map Reduce programs Machine learning principles with libraries such as Mahout and Batch and Stream data processing using Apache Spark Understand the changes involved in the process in the move from Hadoop 1 0 to Hadoop 2 0 Dive into YARN and Storm and use YARN to integrate Storm with Hadoop Deploy Hadoop on Amazon Elastic MapReduce and Discover HDFS replacements and learn about HDFS Federation In Detail As Marc Andreessen has said Data is eating the world which can be witnessed today being the age of Big Data businesses are producing data in huge volumes every day and this rise in tide of data need to be organized and analyzed in a more secured way With proper and effective use of Hadoop you can build new improved models and based on that you will be able to make the right decisions The first module Hadoop beginners Guide will walk you through on understanding Hadoop with very detailed instructions and how to go about using it Commands are explained using sections called What just happened for more clarity and understanding The second module Hadoop Real World Solutions Cookbook 2nd edition is an essential tutorial to effectively implement a big data warehouse in your business where you get detailed practices on the latest technologies such as YARN and Spark Big data has become a key basis of competition and the new waves of productivity growth Hence once you get familiar with the basics and implement the end to end big data use cases you will start exploring the third module Mastering Hadoop So now the question is if you need to broaden your Hadoop skill set to the next level after you nail the basics and the advance concepts then this course is indispensable When you finish this course you will be able to tackle the real world scenarios and become a big data expert using the tools and the knowledge based on the various step by step tutorials and recipes Style and approach This course has covered everything right from the basic concepts of Hadoop till you master the advance mechanisms to become a big data expert The goal here is to help you learn the basic essentials using the step by step tutorials and from there moving toward the recipes with various real world solutions for you It covers all the important aspects of Hadoop from system designing and configuring

Hadoop machine learning principles with various libraries with chapters illustrated with code fragments and schematic diagrams This is a compendious course to explore Hadoop from the basics to the most advanced techniques available in Hadoop 2 X **Mastering Magento Theme Design** Andrea Saccà,2014-04-25 Written in a step by step tutorial style with a lot of code snippets and hands on examples to create an advanced Magento theme from scratch this book is tailor made for web designers and developers This book is great for developers and web designers who are looking to get a good grounding in how to create custom responsive and advanced Magento themes Readers must have some experience with HTML PHP CSS and Magento theme design This book will be useful for anybody who already has knowledge of the Magento frontend structure *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 FeaturesSet up configure and get started with Hadoop to get useful insights from large data setsWork with the different components of Hadoop such as MapReduce HDFS and YARN Learn about the new features introduced in Hadoop 3Book 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 learnStore and analyze data at scale using HDFS MapReduce and YARNInstall and configure Hadoop 3 in different modesUse Yarn effectively to run different applications on Hadoop based platformUnderstand and monitor how Hadoop cluster is managedConsume streaming data using Storm and then analyze it using SparkExplore Apache Hadoop ecosystem components such as Flume Sqoop HBase Hive and KafkaWho 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 *Big Data Analytics* Ümit Demirbaga,Gagangeet Singh Aujla,Anish Jindal,Oğuzhan Kalyon,2024-05-07 This book introduces readers to big data analytics It covers the background to and the concepts of big data big data analytics and cloud computing along with the process of setting up configuring and getting familiar with the big data analytics working environments in the first two chapters The third chapter provides comprehensive information on big data processing systems from installing these systems

to implementing real world data applications along with the necessary codes The next chapter dives into the details of big data storage technologies including their types essentiality durability and availability and reveals their differences in their properties The fifth and sixth chapters guide the reader through understanding configuring and performing the monitoring and debugging of big data systems and present the available commercial and open source tools for this purpose Chapter seven gives information about a trending machine learning Bayesian network a probabilistic graphical model by presenting a real world probabilistic application to understand causal complex and hidden relationships for diagnosis and forecasting in a scalable manner for big data Special sections throughout the eighth chapter present different case studies and applications to help the readers to develop their big data analytics skills using various big data analytics frameworks The book will be of interest to business executives and IT managers as well as university students and their course leaders in fact all those who want to get involved in the big data world

Hadoop Blueprints Anurag Shrivastava,Tanmay Deshpande,2016-09-30 Use Hadoop to solve business problems by learning from a rich set of real life case studies About This Book Solve real world business problems using Hadoop and other Big Data technologies Build efficient data lakes in Hadoop and develop systems for various business cases like improving marketing campaigns fraud detection and more Power packed with six case studies to get you going with Hadoop for Business Intelligence Who This Book Is For If you are interested in building efficient business solutions using Hadoop this is the book for you This book assumes that you have basic knowledge of Hadoop Java and any scripting language What You Will Learn Learn about the evolution of Hadoop as the big data platform Understand the basics of Hadoop architecture Build a 360 degree view of your customer using Sqoop and Hive Build and run classification models on Hadoop using BigML Use Spark and Hadoop to build a fraud detection system Develop a churn detection system using Java and MapReduce Build an IoT based data collection and visualization system Get to grips with building a Hadoop based Data Lake for large enterprises Learn about the coexistence of NoSQL and In Memory databases in the Hadoop ecosystem In Detail If you have a basic understanding of Hadoop and want to put your knowledge to use to build fantastic Big Data solutions for business then this book is for you Build six real life end to end solutions using the tools in the Hadoop ecosystem and take your knowledge of Hadoop to the next level Start off by understanding various business problems which can be solved using Hadoop You will also get acquainted with the common architectural patterns which are used to build Hadoop based solutions Build a 360 degree view of the customer by working with different types of data and build an efficient fraud detection system for a financial institution You will also develop a system in Hadoop to improve the effectiveness of marketing campaigns Build a churn detection system for a telecom company develop an Internet of Things IoT system to monitor the environment in a factory and build a data lake all making use of the concepts and techniques mentioned in this book The book covers other technologies and frameworks like Apache Spark Hive Sqoop and more and how they can be used in conjunction with Hadoop You will be able to try out the solutions explained in the book and use the

knowledge gained to extend them further in your own problem space Style and approach This is an example driven book where each chapter covers a single business problem and describes its solution by explaining the structure of a dataset and tools required to process it Every project is demonstrated with a step by step approach and explained in a very easy to understand manner *Creativity in Intelligent Technologies and Data Science* Alla G. Kravets,Maxim Shcherbakov,Danila Parygin,Peter P. Groumpos,2021-09-15 This book constitutes the proceedings of the 4th Conference on Creativity in Intellectual Technologies and Data Science CIT open science semantic technologies IoT and computer vision in knowledge based control Cyber physical systems and big data driven control pro active modeling in intelligent decision making support design creativity in CASE CAI CAD PDM intelligent technologies in urban design and computing Intelligent technologies in social engineering data science in social networks analysis and cyber security educational creativity and game based learning intelligent assistive technologies software design and application **Handbook of Systems Engineering and Risk**

Management in Control Systems, Communication, Space Technology, Missile, Security and Defense Operations

Anna M. Doro-on,2022-09-27 This book provides multifaceted components and full practical perspectives of systems engineering and risk management in security and defense operations with a focus on infrastructure and manpower control systems missile design space technology satellites intercontinental ballistic missiles and space security While there are many existing selections of systems engineering and risk management textbooks there is no existing work that connects systems engineering and risk management concepts to solidify its usability in the entire security and defense actions With this book Dr Anna M Doro on rectifies the current imbalance She provides a comprehensive overview of systems engineering and risk management before moving to deeper practical engineering principles integrated with newly developed concepts and examples based on industry and government methodologies The chapters also cover related points including design principles for defeating and deactivating improvised explosive devices and land mines and security measures against kinds of threats The book is designed for systems engineers in practice political risk professionals managers policy makers engineers in other engineering fields scientists decision makers in industry and government and to serve as a reference work in systems engineering and risk management courses with focus on security and defense operations **Proceedings of**

ICETIT 2019 Pradeep Kumar Singh,Bijaya Ketan Panigrahi,Nagender Kumar Suryadevara,Sudhir Kumar Sharma,Amit Prakash Singh,2019-09-23 This book presents high quality original contributions both theoretical and experimental on Information Security Machine Learning Data Mining and Internet of Things IoT It gathers papers presented at ICETIT 2019 the 1st International Conference on Emerging Trends in Information Technology which was held in Delhi India in June 2019 This conference series represents a targeted response to the growing need for research that reports on and assesses the practical implications of IoT and network technologies AI and machine learning data analytics and cloud computing security and privacy and next generation computing technologies **Dataproccookbook** Narasimha Sadineni,Anuyogam

Venkataraman,2025-06-03 Want to build big data solutions in Google Cloud Dataproc Cookbook is your hands on guide to mastering Dataproc and the essential GCP fundamentals like networking security monitoring and cost optimization that apply across Google Cloud services Learn practical skills that not only fast track your Dataproc expertise but also help you succeed with a wide range of GCP technologies Written by data experts Narasimha Sadineni and Anu Venkataraman this cookbook tackles real world use cases like serverless Spark jobs Kubernetes native deployments and cost optimized data lake workflows You ll learn how to create ephemeral and persistent Dataproc clusters run secure data science workloads implement monitoring solutions and plan effective migration and optimization strategies Create Dataproc clusters on Compute Engine and Kubernetes Engine Run data science workloads on Dataproc Execute Spark jobs on Dataproc Serverless Optimize Dataproc clusters to be cost effective and performant Monitor Spark jobs in various ways Orchestrate various workloads and activities Use different methods for migrating data and workloads from existing Hadoop clusters to Dataproc

Hadoop Posts & Telecom Press,JONATHAN OWENS,Lentz Jon,Femiano Brian,2024-05-16 Hadoop Key Features Book Description Hadoop 3 Hadoop HDFS Pig Hive ETL MapReduce Hadoop MapReduce Hadoop Hadoop Hadoop Hadoop Hadoop Hadoop What you will learn Hadoop HDFS Pig Hive ETL MapReduce Hadoop Hadoop MapReduce Who this book is for Hadoop Hadoop Hadoop Hadoop Hadoop Hadoop **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 **Linux Server Cookbook** Alberto Gonzalez,2023-02-10 Learn How to Implement Key System Administration Tasks in Linux KEY FEATURES Configure and use Linux network commands to analyze maintain and troubleshoot the network Get familiar with the most commonly used advanced commands required for administrating the Linux Server Explore new and trending services in the system administration domain DESCRIPTION Linux is the most popular operating system in the IT industry due to its security and performance In this book you will get familiar with the most important and advanced concepts of Linux server administration The book begins by showing you how to install a Linux

distribution and the different possibilities available depending on the end usage of it After installation the book shows how to manage your system administrate users and permissions and how to install new software and configure the services The book provides a review of the most common and useful CLI commands and will provide knowledge on how to manage files directories and processes It explains how to install and administer advanced services like databases and file sharing The book will then guide you through new technologies related to automation containers and continuous integration delivery pipelines Lastly it will help you explore concepts such as Infrastructure as Code and Infrastructure as a Service and the usage of Linux on Public and Private clouds in detail with multiple examples By the end of the book you will be able to use different open source tools available on Linux to perform tasks

WHAT YOU WILL LEARN Learn how to install a Linux distribution Explore advanced Network Configuration in Linux Configure firewall and network security in the Linux server Learn how to automate your system administration tasks Automate Linux Server Deployments with Terraform

WHO THIS BOOK IS FOR This book is best suited for System administrators Linux administrators IT managers Network engineers Network administrators and Security professionals

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Mastering Apache Hbase Cybellium, Unlock the Power of Scalable and Distributed Data Storage with Mastering Apache HBase In the rapidly evolving landscape of data management the ability to efficiently handle massive amounts of data has become an indispensable skill Mastering Apache HBase serves as your definitive guide to mastering one of the most powerful and flexible distributed NoSQL databases Apache HBase Whether you re a seasoned data professional or a newcomer to the world of big data this book equips you with the knowledge and skills needed to harness the full potential of Apache HBase

About the Book Mastering Apache HBase takes you on a comprehensive journey through the intricacies of this robust and versatile NoSQL database From the fundamentals of installation and configuration to advanced topics such as performance tuning and integration with other Big Data tools this book covers it all Each chapter is meticulously crafted to provide a deep understanding of the concepts along with practical real world applications

Key Features Solid Foundation Build a strong understanding by exploring the core concepts of Apache HBase including its architecture data model and storage components Efficient Data Management Learn how to create tables insert and retrieve data and implement effective data modeling strategies that maximize performance and flexibility Scalability and Distribution Dive into the distributed nature of Apache HBase and discover techniques to scale your cluster horizontally ensuring seamless growth as your data needs expand Advanced Techniques Master advanced topics such as data versioning coprocessors security and backup and recovery enabling you to tackle complex scenarios with confidence Performance

Optimization Uncover strategies and best practices for optimizing the performance of your Apache HBase cluster ensuring your applications run smoothly even at scale Integration with Ecosystem Explore how Apache HBase seamlessly integrates with other Big Data tools like Apache Hadoop Apache Spark and Apache Hive opening up possibilities for data analysis and processing Real World Use Cases Learn through practical examples and use cases from various industries including social media e commerce finance and more to understand how Apache HBase can solve real world data challenges Expert Insights Benefit from the experience of seasoned professionals who provide insights tips and recommendations garnered from their years of working with Apache HBase Who This Book Is For Mastering Apache HBase is designed for data engineers database administrators and anyone involved in managing and analyzing large volumes of data Whether you re a developer looking to expand your skillset or an experienced professional aiming to deepen your understanding of distributed data storage this book is your ultimate resource 2023 Cybellium Ltd All rights reserved www.cybellium.com

Hadoop Blueprints Anurag Shrivastava, 2016-12-30 Use Hadoop to solve business problems by learning from a rich set of real life case studies About This Book Learn to solve real world business problems using Hadoop and other big data technologies Power packed with seven case studies to get you going with Hadoop for Business Intelligence Analyze sensor data using Hadoop and develop a data visualization dashboard Who This Book Is For This book is designed for those who are interested in exploring the capabilities of Hadoop This book assumes that you have basic knowledge of Hadoop and its ecosystem of tools Basic knowledge of Java and scripting is expected What You Will Learn Use Sqoop and Hive to build your customer a 360 degree view Use Spark and Hadoop to build a fraud detection system See how customer master data and transaction streams can be used to build a fraud detection system Familiarize yourself on how machine learning libraries can be used with Hadoop to solve business problems Collect data through GPS sensors to build dashboards using visualization Get to grips with building a Hadoop based Data Lake for large enterprises In Detail If you have a basic understanding of Hadoop and want to put your knowledge to use to build fantastic business solutions then this book is for you You will learn to build six real life end to end applications using Hadoop in its ecosystem Each chapter will cover the steps required to build an application end to end We start off by discussing various industry use cases and the associated business cases We also discuss common architectural patterns Next you ll learn how to import and utilize structured and semi structured data to build a 360 degree view of the customer We ll also build a classification model based upon historical data using a machine learning library We then move on to use an analytics model to predict the likelihood of a certain event Through these real world cases you ll take your Hadoop learning to the next level You will be able to try out the solutions explained in the book and use the knowledge gained to extend them further in your own problem space

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Hadoop Real World Solutions Cookbook Introduction

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