

Hadoop

Hadoop
Common

MapReduce

Yet Another
Resource Negotiator

HDFS



Mastering Hadoop

Patrick Vollmar



Mastering Hadoop:

Mastering Hadoop Sandeep Karanth, 2014-12-29 Do you want to broaden your Hadoop skill set and take your knowledge to the next level Do you wish to enhance your knowledge of Hadoop to solve challenging data processing problems Are your Hadoop jobs Pig scripts or Hive queries not working as fast as you intend Are you looking to understand the benefits of upgrading Hadoop If the answer is yes to any of these this book is for you It assumes novice level familiarity with Hadoop

Mastering Data Engineering: Advanced Techniques with Apache Hadoop and Hive Peter Jones, 2025-01-11 Immerse yourself in the realm of big data with Mastering Data Engineering Advanced Techniques with Apache Hadoop and Hive your definitive guide to mastering two of the most potent technologies in the data engineering landscape This book provides comprehensive insights into the complexities of Apache Hadoop and Hive equipping you with the expertise to store manage and analyze vast amounts of data with precision From setting up your initial Hadoop cluster to performing sophisticated data analytics with HiveQL each chapter methodically builds on the previous one ensuring a robust understanding of both fundamental concepts and advanced methodologies Discover how to harness HDFS for scalable and reliable storage utilize MapReduce for intricate data processing and fully exploit data warehousing capabilities with Hive Targeted at data engineers analysts and IT professionals striving to advance their proficiency in big data technologies this book is an indispensable resource Through a blend of theoretical insights practical knowledge and real world examples you will master data storage optimization advanced Hive functionalities and best practices for secure and efficient data management Equip yourself to confront big data challenges with confidence and skill with Mastering Data Engineering Advanced Techniques with Apache Hadoop and Hive Whether you re a novice in the field or seeking to expand your expertise this book will be your invaluable guide on your data engineering journey

Data Processing and Modeling with Hadoop Vinicius Aquino do Vale, 2021-10-12 Understand data in a simple way using a data lake KEY FEATURES In depth practical demonstration of Hadoop Yarn concepts with numerous examples Includes graphical illustrations and visual explanations for Hadoop commands and parameters Includes details of dimensional modeling and Data Vault modeling Includes details of how to create and define a structure to a data lake DESCRIPTION The book Data Processing and Modeling with Hadoop explains how a distributed system works and its benefits in the big data era in a straightforward and clear manner After reading the book you will be able to plan and organize projects involving a massive amount of data The book describes the standards and technologies that aid in data management and compares them to other technology business standards The reader receives practical guidance on how to segregate and separate data into zones as well as how to develop a model that can aid in data evolution It discusses security and the measures that are utilized to reduce the impact of security Self service analytics Data Lake Data Vault 2 0 and Data Mesh are discussed in the book After reading this book the reader will have a thorough understanding of how to structure a data lake as well as the ability to plan organize and carry out the implementation of a

data driven business with full governance and security WHAT YOU WILL LEARN Learn the basics of components to the Hadoop Ecosystem Understand the structure files and zones of a Data Lake Learn to implement the security part of the Hadoop Ecosystem Learn to work with the Data Vault 2.0 modeling Learn to develop a strategy to define good governance Learn new tools to work with Data and Big Data WHO THIS BOOK IS FOR This book caters to big data developers technical specialists consultants and students who want to build good proficiency in big data Knowing basic SQL concepts modeling and development would be good although not mandatory TABLE OF CONTENTS 1 Understanding the Current Moment 2 Defining the Zones 3 The Importance of Modeling 4 Massive Parallel Processing 5 Doing ETL ELT 6 A Little Governance 7 Talking About Security 8 What Are the Next Steps

Mastering Hadoop 3 Chanchal Singh, Manish Kumar, 2019-02-28 A comprehensive guide to mastering the most advanced Hadoop 3 concepts Key Features Get to grips with the newly introduced features and capabilities of Hadoop 3 Crunch and process data using MapReduce YARN and a host of tools within the Hadoop ecosystem Sharpen your Hadoop skills with real world case studies and code Book Description Apache Hadoop is one of the most popular big data solutions for distributed storage and for processing large chunks of data With Hadoop 3 Apache promises to provide a high performance more fault tolerant and highly efficient big data processing platform with a focus on improved scalability and increased efficiency With this guide you will understand advanced concepts of the Hadoop ecosystem tool You will learn how Hadoop works internally study advanced concepts of different ecosystem tools discover solutions to real world use cases and understand how to secure your cluster It will then walk you through HDFS YARN MapReduce and Hadoop 3 concepts You will be able to address common challenges like using Kafka efficiently designing low latency reliable message delivery Kafka systems and handling high data volumes As you advance you will discover how to address major challenges when building an enterprise grade messaging system and how to use different stream processing systems along with Kafka to fulfil your enterprise goals By the end of this book you will have a complete understanding of how components in the Hadoop ecosystem are effectively integrated to implement a fast and reliable data pipeline and you will be equipped to tackle a range of real world problems in data pipelines What you will learn Gain an in depth understanding of distributed computing using Hadoop 3 Develop enterprise grade applications using Apache Spark Flink and more Build scalable and high performance Hadoop data pipelines with security monitoring and data governance Explore batch data processing patterns and how to model data in Hadoop Master best practices for enterprises using or planning to use Hadoop 3 as a data platform Understand security aspects of Hadoop including authorization and authentication Who this book is for If you want to become a big data professional by mastering the advanced concepts of Hadoop this book is for you You will also find this book useful if you are a Hadoop professional looking to strengthen your knowledge of the Hadoop ecosystem Fundamental knowledge of the Java programming language and basics of Hadoop is necessary to get started with this book

Mastering Disruptive Technologies Dr. R. K. Dhanaraj, S. R. Jena, A. K. Yadav, Vani Rajasekar, 2021-04-30 About the

Book The book is divided into 4 modules which consist of 21 chapters that narrates briefly about the top five recent emerging trends such as Cloud Computing Internet of Things IoT Blockchain Artificial Intelligence and Machine Learning At the end of each module authors have provided two Appendices One is Job oriented short type questions with answers and the second one provide us different MCQs with their keys Salient Features of the Book Detailed Coverage on Topics like Introduction to Cloud Computing Cloud Architecture Cloud Applications Cloud Platforms Open Source Cloud Simulation Tools and Mobile Cloud Computing Expanded Coverage on Topics like Introduction to IoT Architecture Core Modules Communication models and protocols IoT Environment IoT Testing IoT and Cloud Computing Focused Coverage on Topics like Introduction to Blockchain Technology Security and Privacy component of Blockchain Technology Consensus Algorithms Blockchain Development Platform and Various Applications Dedicated Coverage on Topics like Introduction to Artificial Intelligence and Machine Learning Techniques Types of Machine Learning Clustering Algorithms K Nearest Neighbor Algorithm Artificial Neural Network Deep Learning and Applications of Machine Learning Pictorial Two Minute Drill to Summarize the Whole Concept Inclusion of 300 Job Oriented Short Type Questions with Answers for the aspirants to have the Thoroughness Practice and Multiplicity Around 178 Job Oriented MCQs with their keys Catch Words and Questions on Self Assessment at Chapter wise Termination About the Authors Dr Rajesh Kumar Dhanaraj is an Associate Professor in the School of Computing Science and Engineering at Galgotias University Greater Noida Uttar Pradesh India He holds a Ph D degree in Information and Communication Engineering from Anna University Chennai India He has published more than 20 authored and edited books on various emerging technologies and more than 35 articles in various peer reviewed journals and international conferences and contributed chapters to the books His research interests include Machine Learning Cyber Physical Systems and Wireless Sensor Networks He is an expert advisory panel member of Texas Instruments Inc USA Mr Soumya Ranjan Jena is currently working as an Assistant Professor in the Department of CSE School of Computing at Vel Tech Rangarajan Dr Sagunthala R D Institute of Science Technology Avadi Chennai Tamil Nadu India He has teaching and research experience from various reputed institutions in India like Galgotias University Greater Noida Uttar Pradesh AKS University Satna Madhya Pradesh K L Deemed to be University Guntur Andhra Pradesh GITA Autonomous Bhubaneswar Odisha He has been awarded M Tech in Information Technology from Utkal University Odisha B Tech in Computer Science Engineering from BPUT Odisha and Cisco Certified Network Associate CCNA from Central Tool Room and Training Centre CTTC Bhubaneswar Odisha He has got the immense experience to teach to graduate as well as post graduate students and author of two books i e Theory of Computation and Application and Design and Analysis of Algorithms He has published more than 25 research papers on Cloud Computing IoT in various international journals and conferences which are indexed by Scopus Web of Science and also published six patents out of which one is granted in Australia Mr Ashok Kumar Yadav is currently working as Dean Academics and Assistant Professor at Rajkiya Engineering College Azamgarh Uttar Pradesh He has worked as an

Assistant Professor on Ad hoc in the Department of Computer Science University of Delhi He has also worked with Cluster Innovation Center University of Delhi New Delhi He qualified for UGC JRF Presently he is pursuing his Ph D in Computer Science from JNU New Delhi He has received M Tech in Computer Science and Technology from JNU New Delhi He has presented and published papers at international conferences and journals on blockchain technology and machine learning He has delivered various expert lectures on reputed institutes Ms Vani Rajasekar completed B Tech Information Technology M Tech Information and Cyber warfare in Department of Information Technology Kongu Engineering College Erode Tamil Nadu India She is pursuing her Ph D Information and Communication Engineering in the area of Biometrics and Network security Presently she is working as an Assistant professor in the Department of Computer Science and Engineering Kongu Engineering College Erode Tamil Nadu India for the past 5 years Her areas of interest include Cryptography Biometrics Network Security and Wireless Networks She has authored around 20 research papers and book chapters published in various international journals and conferences which were indexed in Scopus Web of Science and SCI

Mastering Spring Application Development Anjana Mankale, 2015-05-30 If you are a Java developer with experience in developing applications with Spring then this book is perfect for you A good working knowledge of Spring programming conventions and applying dependency injections is recommended to make the most of this book

Mastering Apache Spark 2.x Romeo Kienzler, 2017-07-26 Advanced analytics on your Big Data with latest Apache Spark 2 x About This Book An advanced guide with a combination of instructions and practical examples to extend the most up to date Spark functionalities Extend your data processing capabilities to process huge chunk of data in minimum time using advanced concepts in Spark Master the art of real time processing with the help of Apache Spark 2 x Who This Book Is For If you are a developer with some experience with Spark and want to strengthen your knowledge of how to get around in the world of Spark then this book is ideal for you Basic knowledge of Linux Hadoop and Spark is assumed Reasonable knowledge of Scala is expected What You Will Learn Examine Advanced Machine Learning and DeepLearning with MLlib SparkML SystemML H2O and DeepLearning4J Study highly optimised unified batch and real time data processing using SparkSQL and Structured Streaming Evaluate large scale Graph Processing and Analysis using GraphX and GraphFrames Apply Apache Spark in Elastic deployments using Jupyter and Zeppelin Notebooks Docker Kubernetes and the IBM Cloud Understand internal details of cost based optimizers used in Catalyst SystemML and GraphFrames Learn how specific parameter settings affect overall performance of an Apache Spark cluster Leverage Scala R and python for your data science projects In Detail Apache Spark is an in memory cluster based parallel processing system that provides a wide range of functionalities such as graph processing machine learning stream processing and SQL This book aims to take your knowledge of Spark to the next level by teaching you how to expand Spark s functionality and implement your data flows and machine deep learning programs on top of the platform The book commences with an overview of the Spark ecosystem It will introduce you to Project Tungsten and Catalyst two of the major

advancements of Apache Spark 2 x You will understand how memory management and binary processing cache aware computation and code generation are used to speed things up dramatically The book extends to show how to incorporate H2O SystemML and Deeplearning4j for machine learning and Jupyter Notebooks and Kubernetes Docker for cloud based Spark During the course of the book you will learn about the latest enhancements to Apache Spark 2 x such as interactive querying of live data and unifying DataFrames and Datasets You will also learn about the updates on the APIs and how DataFrames and Datasets affect SQL machine learning graph processing and streaming You will learn to use Spark as a big data operating system understand how to implement advanced analytics on the new APIs and explore how easy it is to use Spark in day to day tasks Style and approach This book is an extensive guide to Apache Spark modules and tools and shows how Spark s functionality can be extended for real time processing and storage with worked examples

Mastering Apache Cassandra - Second Edition Nishant Neeraj,2015-03-26 The book is aimed at intermediate developers with an understanding of core database concepts who want to become a master at implementing Cassandra for their application

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 Geospatial Analysis with Python* Silas Toms,Paul Crickard,Eric van Rees,2018-04-27 Explore GIS processing and learn to work with various tools and libraries in Python Key Features Analyze and process geospatial data using Python libraries such as Anaconda GeoPandas Leverage new ArcGIS API to process geospatial data for the cloud Explore various Python geospatial web and machine learning frameworks Book Description Python comes with a host of open source libraries and tools that help you work on professional geoprocessing tasks without investing in expensive tools This book will introduce Python developers both new and experienced to a variety of new code libraries that have been developed to perform geospatial analysis statistical analysis and data management This book will use examples and code snippets that will help explain how Python 3 differs from Python 2 and how these new code libraries can be used to solve age old problems in geospatial analysis You will begin by understanding what geoprocessing is and explore the tools and libraries that Python 3 offers You will then learn to use Python code libraries to read and write geospatial data You will then learn to perform geospatial queries within databases and learn PyQGIS to automate analysis within the QGIS mapping suite Moving forward you will explore the newly released ArcGIS API for Python and ArcGIS Online to perform geospatial analysis and create ArcGIS Online web maps Further you will deep dive into Python Geospatial web frameworks and learn to create a geospatial REST API What you will learn Manage code libraries and abstract geospatial analysis techniques using Python 3 Explore popular code libraries that perform specific tasks for geospatial analysis Utilize code libraries for data conversion data management web maps and REST API creation Learn techniques related to processing geospatial data in the cloud Leverage features of Python 3 with geospatial databases such as PostGIS SQL Server and SpatiaLite Who this book is for The audience for this book includes students developers and geospatial professionals who need a reference book that covers GIS data

management analysis and automation techniques with code libraries built in Python 3 *Mastering Apache Storm* Ankit Jain, 2017-08-16 Master the intricacies of Apache Storm and develop real time stream processing applications with ease About This Book Exploit the various real time processing functionalities offered by Apache Storm such as parallelism data partitioning and more Integrate Storm with other Big Data technologies like Hadoop HBase and Apache Kafka An easy to understand guide to effortlessly create distributed applications with Storm Who This Book Is For If you are a Java developer who wants to enter into the world of real time stream processing applications using Apache Storm then this book is for you No previous experience in Storm is required as this book starts from the basics After finishing this book you will be able to develop not so complex Storm applications What You Will Learn Understand the core concepts of Apache Storm and real time processing Follow the steps to deploy multiple nodes of Storm Cluster Create Trident topologies to support various message processing semantics Make your cluster sharing effective using Storm scheduling Integrate Apache Storm with other Big Data technologies such as Hadoop HBase Kafka and more Monitor the health of your Storm cluster In Detail Apache Storm is a real time Big Data processing framework that processes large amounts of data reliably guaranteeing that every message will be processed Storm allows you to scale your data as it grows making it an excellent platform to solve your big data problems This extensive guide will help you understand right from the basics to the advanced topics of Storm The book begins with a detailed introduction to real time processing and where Storm fits in to solve these problems You ll get an understanding of deploying Storm on clusters by writing a basic Storm Hello World example Next we ll introduce you to Trident and you ll get a clear understanding of how you can develop and deploy a trident topology We cover topics such as monitoring Storm Parallelism scheduler and log processing in a very easy to understand manner You will also learn how to integrate Storm with other well known Big Data technologies such as HBase Redis Kafka and Hadoop to realize the full potential of Storm With real world examples and clear explanations this book will ensure you will have a thorough mastery of Apache Storm You will be able to use this knowledge to develop efficient distributed real time applications to cater to your business needs Style and approach This easy to follow guide is full of examples and real world applications to help you get an in depth understanding of Apache Storm This book covers the basics thoroughly and also delves into the intermediate and slightly advanced concepts of application development with Apache Storm **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 **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

Mastering MongoDB 3.x Alex Giamas, 2017-11-17

An expert's guide to build fault tolerant MongoDB application About This Book Master the advanced modeling querying and administration techniques in MongoDB and become a MongoDB expert Covers the latest updates and Big Data features frequently used by professional MongoDB developers and administrators If your goal is to become a certified MongoDB professional this book is your perfect companion Who This Book Is For Mastering MongoDB is a book for database developers architects and administrators who want to learn how to use MongoDB more effectively and productively If you have experience in and are interested in working with NoSQL databases to build apps and websites then this book is for you What You Will Learn Get hands on with advanced querying techniques such as indexing expressions arrays and more Configure monitor and maintain highly scalable MongoDB environment like an expert Master replication and data sharding to optimize read write performance Design secure and robust applications based on MongoDB Administer MongoDB based applications on premise or in the cloud Scale MongoDB to achieve your design goals Integrate MongoDB with big data sources to process huge amounts of data In Detail MongoDB has grown to become the de facto NoSQL database with millions of users from small startups to Fortune 500 companies Addressing the limitations of SQL schema based databases MongoDB pioneered a shift of focus for DevOps and offered sharding and replication maintainable by DevOps teams The book is based on MongoDB 3.x and covers topics ranging from database querying using the shell built in drivers and popular ODM mappers to more advanced topics such as sharding high availability and integration with big data sources You will get an overview of MongoDB and how to play to its strengths with relevant use cases After that you will learn how to query MongoDB effectively and make use of indexes as much as possible The next part deals with the administration of MongoDB installations on premise or in the cloud We deal with database internals in the next section explaining storage systems and how they can affect performance The last section of this book deals with replication and MongoDB scaling along with integration with heterogeneous data sources By the end this book you will be equipped with all the required industry skills and knowledge to become a certified MongoDB developer and administrator Style and approach This book takes a practical step by step approach to explain the concepts of MongoDB Practical use cases involving real world examples are used throughout the book to clearly explain theoretical concepts

Mastering Python for Data Science Samir Madhavan, 2015-08-31

Explore the world of data science through Python and learn how to make sense of data About This Book Master data science methods using Python and its libraries Create data visualizations and mine for patterns Advanced techniques for the four fundamentals of Data Science with Python data mining data analysis data visualization and machine learning Who This Book Is For If you are a Python developer who wants to master the world of data science then this book is for you Some knowledge of data science is assumed What You Will Learn Manage data and perform linear algebra in Python Derive inferences from the analysis by performing inferential statistics Solve data science problems in Python Create high end visualizations using

Python Evaluate and apply the linear regression technique to estimate the relationships among variables Build recommendation engines with the various collaborative filtering algorithms Apply the ensemble methods to improve your predictions Work with big data technologies to handle data at scale In Detail Data science is a relatively new knowledge domain which is used by various organizations to make data driven decisions Data scientists have to wear various hats to work with data and to derive value from it The Python programming language beyond having conquered the scientific community in the last decade is now an indispensable tool for the data science practitioner and a must know tool for every aspiring data scientist Using Python will offer you a fast reliable cross platform and mature environment for data analysis machine learning and algorithmic problem solving This comprehensive guide helps you move beyond the hype and transcend the theory by providing you with a hands on advanced study of data science Beginning with the essentials of Python in data science you will learn to manage data and perform linear algebra in Python You will move on to deriving inferences from the analysis by performing inferential statistics and mining data to reveal hidden patterns and trends You will use the matplotlib library to create high end visualizations in Python and uncover the fundamentals of machine learning Next you will apply the linear regression technique and also learn to apply the logistic regression technique to your applications before creating recommendation engines with various collaborative filtering algorithms and improving your predictions by applying the ensemble methods Finally you will perform K means clustering along with an analysis of unstructured data with different text mining techniques and leveraging the power of Python in big data analytics Style and approach This book is an easy to follow comprehensive guide on data science using Python The topics covered in the book can all be used in real world scenarios

Mastering matplotlib Duncan M. McGreggor, 2015-06-29 matplotlib is a Python plotting library that provides a large feature set for a multitude of platforms Given the depth of the library's legacy and the variety of related open source projects gaining expert knowledge can be a time consuming and often confusing process You'll begin your exciting journey learning about the skills that are necessary in leading technical teams for a visualization project or to become a matplotlib contributor Supported by highly detailed IPython Notebooks this book takes you through the conceptual components underlying the library and then provides a detailed overview of its APIs From there you will learn about event handling and how to code for interactive plots Next you will move on to customization techniques local configuration of matplotlib and then deployments in Cloud environments The adventure culminates in an exploration of big data visualization and matplotlib clustering

Ultimate Big Data Analytics with Apache Hadoop: Master Big Data Analytics with Apache Hadoop Using Apache Spark, Hive, and Python Simhadri Govindappa, 2024-09-09 Master the Hadoop Ecosystem and Build Scalable Analytics Systems Key Features Explains Hadoop YARN MapReduce and Tez for understanding distributed data processing and resource management Delves into Apache Hive and Apache Spark for their roles in data warehousing real time processing and advanced analytics Provides hands on guidance for using Python with Hadoop for business intelligence and

data analytics Book Description In a rapidly evolving Big Data job market projected to grow by 28% through 2026 and with salaries reaching up to 150 000 annually mastering big data analytics with the Hadoop ecosystem is most sought after for career advancement The Ultimate Big Data Analytics with Apache Hadoop is an indispensable companion offering in depth knowledge and practical skills needed to excel in today s data driven landscape The book begins laying a strong foundation with an overview of data lakes data warehouses and related concepts It then delves into core Hadoop components such as HDFS YARN MapReduce and Apache Tez offering a blend of theory and practical exercises You will gain hands on experience with query engines like Apache Hive and Apache Spark as well as file and table formats such as ORC Parquet Avro Iceberg Hudi and Delta Detailed instructions on installing and configuring clusters with Docker are included along with big data visualization and statistical analysis using Python Given the growing importance of scalable data pipelines this book equips data engineers analysts and big data professionals with practical skills to set up manage and optimize data pipelines and to apply machine learning techniques effectively Don t miss out on the opportunity to become a leader in the big data field to unlock the full potential of big data analytics with Hadoop What you will learn Gain expertise in building and managing large scale data pipelines with Hadoop YARN and MapReduce Master real time analytics and data processing with Apache Spark s powerful features Develop skills in using Apache Hive for efficient data warehousing and complex queries Integrate Python for advanced data analysis visualization and business intelligence in the Hadoop ecosystem Learn to enhance data storage and processing performance using formats like ORC Parquet and Delta Acquire hands on experience in deploying and managing Hadoop clusters with Docker and Kubernetes Build and deploy machine learning models with tools integrated into the Hadoop ecosystem Table of Contents 1 Introduction to Hadoop and ASF 2 Overview of Big Data Analytics 3 Hadoop and YARN MapReduce and Tez 4 Distributed Query Engines Apache Hive 5 Distributed Query Engines Apache Spark 6 File Formats and Table Formats Apache Iceberg Hudi and Delta 7 Python and the Hadoop Ecosystem for Big Data Analytics BI 8 Data Science and Machine Learning with Hadoop Ecosystem 9 Introduction to Cloud Computing and Other Apache Projects Index

Mastering Apache Hudi Robert Johnson, 2025-01-06 Mastering Apache Hudi Building Real Time Data Lakes is an authoritative guide designed to equip data engineers architects and IT professionals with the knowledge and skills needed to leverage Apache Hudi s powerful capabilities in managing dynamic continuously evolving datasets As organizations worldwide strive to harness the vast streams of real time data for actionable insights this book demystifies the intricacies of deploying and optimizing Hudi turning traditional data lakes into agile real time analytical engines This comprehensive resource covers a spectrum of essential topics from the architectural components underpinning Hudi s functionality to practical strategies for seamless integration with existing big data ecosystems Readers will gain invaluable insights into performance tuning schema evolution and data governance alongside real world case studies that highlight industry best practices and successful Hudi implementations With step by step guidance and expert insights this book empowers

professionals to transform their data infrastructures enabling rapid and informed decision making in a data driven world

Mastering AWS Security Albert Anthony, 2017-10-26 In depth informative guide to implement and use AWS security services effectively About This Book Learn to secure your network infrastructure data and applications in AWS cloud Log monitor and audit your AWS resources for continuous security and continuous compliance in AWS cloud Use AWS managed security services to automate security Focus on increasing your business rather than being diverged onto security risks and issues with AWS security Delve deep into various aspects such as the security model compliance access management and much more to build and maintain a secure environment Who This Book Is For This book is for all IT professionals system administrators and security analysts solution architects and Chief Information Security Officers who are responsible for securing workloads in AWS for their organizations It is helpful for all Solutions Architects who want to design and implement secure architecture on AWS by the following security by design principle This book is helpful for personnel in Auditors and Project Management role to understand how they can audit AWS workloads and how they can manage security in AWS respectively If you are learning AWS or championing AWS adoption in your organization you should read this book to build security in all your workloads You will benefit from knowing about security footprint of all major AWS services for multiple domains use cases and scenarios What You Will Learn Learn about AWS Identity Management and Access control Gain knowledge to create and secure your private network in AWS Understand and secure your infrastructure in AWS Understand monitoring logging and auditing in AWS Ensure Data Security in AWS Learn to secure your applications in AWS Explore AWS Security best practices In Detail Mastering AWS Security starts with a deep dive into the fundamentals of the shared security responsibility model This book tells you how you can enable continuous security continuous auditing and continuous compliance by automating your security in AWS with the tools services and features it provides Moving on you will learn about access control in AWS for all resources You will also learn about the security of your network servers data and applications in the AWS cloud using native AWS security services By the end of this book you will understand the complete AWS Security landscape covering all aspects of end to end software and hardware security along with logging auditing and compliance of your entire IT environment in the AWS cloud Lastly the book will wrap up with AWS best practices for security Style and approach The book will take a practical approach delving into different aspects of AWS security to help you become a master of it It will focus on using native AWS security features and managed AWS services to help you achieve continuous security and continuous compliance

Mastering Spark for Data Science Andrew Morgan, Antoine Amend, David George, Matthew Hallett, 2017-03-29 Master the techniques and sophisticated analytics used to construct Spark based solutions that scale to deliver production grade data science products About This Book Develop and apply advanced analytical techniques with Spark Learn how to tell a compelling story with data science using Spark s ecosystem Explore data at scale and work with cutting edge data science methods Who This Book Is For This book is for those who have beginner

level familiarity with the Spark architecture and data science applications especially those who are looking for a challenge and want to learn cutting edge techniques This book assumes working knowledge of data science common machine learning methods and popular data science tools and assumes you have previously run proof of concept studies and built prototypes

What You Will Learn Learn the design patterns that integrate Spark into industrialized data science pipelines See how commercial data scientists design scalable code and reusable code for data science services Explore cutting edge data science methods so that you can study trends and causality Discover advanced programming techniques using RDD and the DataFrame and Dataset APIs Find out how Spark can be used as a universal ingestion engine tool and as a web scraper Practice the implementation of advanced topics in graph processing such as community detection and contact chaining Get to know the best practices when performing Extended Exploratory Data Analysis commonly used in commercial data science teams Study advanced Spark concepts solution design patterns and integration architectures Demonstrate powerful data science pipelines In Detail Data science seeks to transform the world using data and this is typically achieved through disrupting and changing real processes in real industries In order to operate at this level you need to build data science solutions of substance solutions that solve real problems Spark has emerged as the big data platform of choice for data scientists due to its speed scalability and easy to use APIs This book deep dives into using Spark to deliver production grade data science solutions This process is demonstrated by exploring the construction of a sophisticated global news analysis service that uses Spark to generate continuous geopolitical and current affairs insights You will learn all about the core Spark APIs and take a comprehensive tour of advanced libraries including Spark SQL Spark Streaming MLlib and more You will be introduced to advanced techniques and methods that will help you to construct commercial grade data products

Focusing on a sequence of tutorials that deliver a working news intelligence service you will learn about advanced Spark architectures how to work with geographic data in Spark and how to tune Spark algorithms so they scale linearly

Style and approach This is an advanced guide for those with beginner level familiarity with the Spark architecture and working with Data Science applications Mastering Spark for Data Science is a practical tutorial that uses core Spark APIs and takes a deep dive into advanced libraries including Spark SQL visual streaming and MLlib This book expands on titles like Machine Learning with Spark and Learning Spark It is the next learning curve for those comfortable with Spark and looking to improve their skills

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