Riyadh Data Geeks

Hadoop In Action

Enough taking about Big data and Hadoop and let's see how Hadoop works in action.
We will locate a real dataset, ingest it to our cluster, connect it to a database, apply some queries and data transformations on it , save our result and show it via BI tool.

Hadoop:
-Hadoop quick definition.
-Why Hadoop?
-Hadoop ecosystem.
-Tools to be used.

Practical part:
-What's the current setup?
-Ambari look.
-Current installed systems.
-Use case high-level description.
-Steps to develop the use case?

Use case:
-Locating the data.
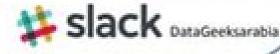-Ingest the data into the HDFS
-See how the files got created in HDFS
-Feed other data from DB.
-Data querying via Hive and MapReduce
-Hive table creation.
-Running transudation job via Pig.
-Check the Hive metastore.
-Connect BI to Hadoop.
-Sqoop basic commands
-End _____ lution.

presented by
Mahmoud Yassin

When

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Where

Badir Program for Technology Incubators

#DataRiyadh

meetup DataGeeks

slack DataGeeksarabia

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VM Jensen

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   Hadoop in Action Chuck Lam,2010-11-30 Hadoop in Action teaches readers how to use Hadoop and write MapReduce programs The intended readers are programmers architects and project managers who have to process large amounts of data offline Hadoop in Action will lead the reader from obtaining a copy of Hadoop to setting it up in a cluster and writing data analytic programs The book begins by making the basic idea of Hadoop and MapReduce easier to grasp by applying the default Hadoop installation to a few easy to follow tasks such as analyzing changes in word frequency across a body of documents The book continues through the basic concepts of MapReduce applications developed using Hadoop including a close look at framework components use of Hadoop for a variety of data analysis tasks and numerous examples of Hadoop in action Hadoop in Action will explain how to use Hadoop and present design patterns and practices of programming MapReduce MapReduce is a complex idea both conceptually and in its implementation and Hadoop users are challenged to learn all the knobs and levers for running Hadoop This book takes you beyond the mechanics of running Hadoop teaching you to write meaningful programs in a MapReduce framework This book assumes the reader will have a basic familiarity with Java as most code examples will be written in Java Familiarity with basic statistical concepts e g histogram correlation will help the reader appreciate the more advanced data processing examples Purchase of the print book comes with an offer of a free PDF ePub and Kindle eBook from Manning Also available is all code from the book   **Hadoop in Action** Chuck Lam,Mark Davis,Ajit Gaddam,2016-01-31 The massive datasets required for most modern businesses are too large to safely store and efficiently process on a single server Hadoop is an open source data processing framework that provides a distributed file system that can manage data stored across clusters of servers and implements the MapReduce data processing model so that users can effectively query and utilize big data The new Hadoop 2 0 is a stable enterprise ready platform supported by a rich ecosystem of tools and related technologies such as Pig Hive YARN Spark Tez and many more Hadoop in Action Second Edition provides a comprehensive introduction to Hadoop and shows how to write programs in the MapReduce style It starts with a few easy examples and then moves quickly to show how Hadoop can be used in more complex data analysis tasks It covers how YARN new in Hadoop 2 simplifies and supercharges resource management to make streaming and real time applications more feasible Included are best practices and design patterns of MapReduce programming The book expands on the first edition by enhancing coverage of important Hadoop 2 concepts and systems and by providing new chapters on data management and data science that reinforce a practical understanding of Hadoop Purchase of the print book includes a free eBook in PDF Kindle and ePub formats from Manning Publications   *Portlets in Action* Ashish Sarin,2011-09-15 Summary Portlets in Action is a comprehensive hands on guide to building portlet driven applications in Java Covers Portlet 2 0 Spring 3 0 Portlet MVC WSRP 2 0 Portlet Bridges Ajax Comet Liferay GateIn Spring JDBC and Hibernate About the Technology Portlets are the small Java applications that run within a portal Good portlets

work independently and also communicate fluently with the portal other portlets as well as outside servers and information sources Using Java s Portlet 2 0 API and portal servers like Liferay you can build flexible stable business portals without the design overhead required by other application styles About the Book Portlets in Action is a comprehensive guide to building portlet driven applications in Java It teaches portlet development hands on as you develop a portal that incorporates most key features of the Portlet 2 0 API And because portals and portlets are so flexible the accompanying source code can be easily adapted and reused Along the way you ll learn how to work with key web frameworks like Spring 3 0 Portlet MVC and DWR Written for Java developers No prior experience with portlets required Purchase of the print book comes with an offer of a free PDF ePub and Kindle eBook from Manning Also available is all code from the book What s Inside Complete coverage of the Portlet 2 0 API Spring 3 0 Portlet MVC and the Liferay portal server Portal design best practices Reusable source code Table of Contents PART 1 GETTING STARTED WITH PORTLET DEVELOPMENT Introducing portals and portlets The portlet lifecycle Portlet 2 0 API portlet objects and container runtime options Portlet 2 0 API caching security and localization Building your own portal Using the portlet tag library PART 2 DEVELOPING PORTLETS USING SPRING AND HIBERNATE Getting started with Spring Portlet MVC Annotation driven development with Spring Integrating portlets with databases PART 3 ADVANCED PORTLET DEVELOPMENT Personalizing portlets Communicating with other portlets Ajaxing portlets Reusable logic with portlet filters Portlet bridges Web Services for Remote Portlets WSRP *Hadoop Beginner's Guide* Garry Turkington,2013-02-22 Data is arriving faster than you can process it and the overall volumes keep growing at a rate that keeps you awake at night Hadoop can help you tame the data beast Effective use of Hadoop however requires a mixture of programming design and system administration skills Hadoop Beginner s Guide removes the mystery from Hadoop presenting Hadoop and related technologies with a focus on building working systems and getting the job done using cloud services to do so when it makes sense From basic concepts and initial setup through developing applications and keeping the system running as the data grows the book gives the understanding needed to effectively use Hadoop to solve real world problems Starting with the basics of installing and configuring Hadoop the book explains how to develop applications maintain the system and how to use additional products to integrate with other systems While learning different ways to develop applications to run on Hadoop the book also covers tools such as Hive Sqoop and Flume that show how Hadoop can be integrated with relational databases and log collection In addition to examples on Hadoop clusters on Ubuntu uses of cloud services such as Amazon EC2 and Elastic MapReduce are covered *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   *Hadoop For Dummies* Dirk deRoos,2014-04-14 Let Hadoop For Dummies help harness the power of your data and rein in the information overload Big data has become big business and companies and organizations of all sizes are struggling to find ways to retrieve valuable information from their massive data sets with becoming overwhelmed Enter Hadoop and this easy to understand For Dummies guide Hadoop For Dummies helps readers

understand the value of big data make a business case for using Hadoop navigate the Hadoop ecosystem and build and manage Hadoop applications and clusters Explains the origins of Hadoop its economic benefits and its functionality and practical applications Helps you find your way around the Hadoop ecosystem program MapReduce utilize design patterns and get your Hadoop cluster up and running quickly and easily Details how to use Hadoop applications for data mining web analytics and personalization large scale text processing data science and problem solving Shows you how to improve the value of your Hadoop cluster maximize your investment in Hadoop and avoid common pitfalls when building your Hadoop cluster From programmers challenged with building and maintaining affordable scaleable data systems to administrators who must deal with huge volumes of information effectively and efficiently this how to has something to help you with Hadoop   *Hadoop in 24 Hours, Sams Teach Yourself* Jeffrey Aven,2017-04-07 Apache Hadoop is the technology at the heart of the Big Data revolution and Hadoop skills are in enormous demand Now in just 24 lessons of one hour or less you can learn all the skills and techniques you ll need to deploy each key component of a Hadoop platform in your local environment or in the cloud building a fully functional Hadoop cluster and using it with real programs and datasets Each short easy lesson builds on all that s come before helping you master all of Hadoop s essentials and extend it to meet your unique challenges Apache Hadoop in 24 Hours Sams Teach Yourself covers all this and much more Understanding Hadoop and the Hadoop Distributed File System HDFS Importing data into Hadoop and process it there Mastering basic MapReduce Java programming and using advanced MapReduce API concepts Making the most of Apache Pig and Apache Hive Implementing and administering YARN Taking advantage of the full Hadoop ecosystem Managing Hadoop clusters with Apache Ambari Working with the Hadoop User Environment HUE Scaling securing and troubleshooting Hadoop environments Integrating Hadoop into the enterprise Deploying Hadoop in the cloud Getting started with Apache Spark Step by step instructions walk you through common questions issues and tasks Q and As Quizzes and Exercises build and test your knowledge Did You Know tips offer insider advice and shortcuts and Watch Out alerts help you avoid pitfalls By the time you re finished you ll be comfortable using Apache Hadoop to solve a wide spectrum of Big Data problems   *Mastering Hadoop 3* Chanchal Singh,Manish Kumar,2019-02-28 A comprehensive guide to mastering the most advanced Hadoop 3 concepts Key FeaturesGet to grips with the newly introduced features and capabilities of Hadoop 3Crunch and process data using MapReduce YARN and a host of tools within the Hadoop ecosystemSharpen your Hadoop skills with real world case studies and codeBook 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 ll understand advanced concepts of the Hadoop ecosystem tool You ll 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 ll 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 ll 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 ll have a complete understanding of how components in the Hadoop ecosystem are effectively integrated to implement a fast and reliable data pipeline and you ll be equipped to tackle a range of real world problems in data pipelines What you will learnGain an in depth understanding of distributed computing using Hadoop 3Develop enterprise grade applications using Apache Spark Flink and moreBuild scalable and high performance Hadoop data pipelines with security monitoring and data governanceExplore batch data processing patterns and how to model data in HadoopMaster best practices for enterprises using or planning to use Hadoop 3 as a data platformUnderstand security aspects of Hadoop including authorization and authenticationWho 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 ll also find this book useful if you re 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   Mahout in Action Sean Owen,B. Ellen Friedman,Robin Anil,Ted Dunning,2011-10-04 Summary Mahout in Action is a hands on introduction to machine learning with Apache Mahout Following real world examples the book presents practical use cases and then illustrates how Mahout can be applied to solve them Includes a free audio and video enhanced ebook About the Technology A computer system that learns and adapts as it collects data can be really powerful Mahout Apache s open source machine learning project captures the core algorithms of recommendation systems classification and clustering in ready to use scalable libraries With Mahout you can immediately apply to your own projects the machine learning techniques that drive Amazon Netflix and others About this Book This book covers machine learning using Apache Mahout Based on experience with real world applications it introduces practical use cases and illustrates how Mahout can be applied to solve them It places particular focus on issues of scalability and how to apply these techniques against large data sets using the Apache Hadoop framework This book is written for developers familiar with Java no prior experience with Mahout is assumed Owners of a Manning pBook purchased anywhere in the world can download a free eBook from manning com at any time They can do so multiple times and in any or all formats available PDF ePub or Kindle To do so customers must register their printed copy on Manning s site by creating a user account and then following instructions printed on the pBook registration insert at the front of the book What s Inside Use group data to make individual recommendations Find logical clusters within your data Filter and refine with on the fly classification Free audio and video extras Table of Contents Meet Apache Mahout PART 1 RECOMMENDATIONS Introducing recommenders Representing recommender data Making recommendations Taking recommenders to production Distributing

recommendation computations PART 2 CLUSTERING Introduction to clustering Representing data Clustering algorithms in Mahout Evaluating and improving clustering quality Taking clustering to production Real world applications of clustering PART 3 CLASSIFICATION Introduction to classification Training a classifier Evaluating and tuning a classifier Deploying a classifier Case study Shop It To Me   Spark in Action Marko Bonaci,Petar Zecevic,2016-11-03 Summary Spark in Action teaches you the theory and skills you need to effectively handle batch and streaming data using Spark Fully updated for Spark 2 0 Purchase of the print book includes a free eBook in PDF Kindle and ePub formats from Manning Publications About the Technology Big data systems distribute datasets across clusters of machines making it a challenge to efficiently query stream and interpret them Spark can help It is a processing system designed specifically for distributed data It provides easy to use interfaces along with the performance you need for production quality analytics and machine learning Spark 2 also adds improved programming APIs better performance and countless other upgrades About the Book Spark in Action teaches you the theory and skills you need to effectively handle batch and streaming data using Spark You ll get comfortable with the Spark CLI as you work through a few introductory examples Then you ll start programming Spark using its core APIs Along the way you ll work with structured data using Spark SQL process near real time streaming data apply machine learning algorithms and munge graph data using Spark GraphX For a zero effort startup you can download the preconfigured virtual machine ready for you to try the book s code What s Inside Updated for Spark 2 0 Real life case studies Spark DevOps with Docker Examples in Scala and online in Java and Python About the Reader Written for experienced programmers with some background in big data or machine learning About the Authors Petar Ze evi and Marko Bona i are seasoned developers heavily involved in the Spark community Table of Contents PART 1 FIRST STEPS Introduction to Apache Spark Spark fundamentals Writing Spark applications The Spark API in depth PART 2 MEET THE SPARK FAMILY Sparkling queries with Spark SQL Ingesting data with Spark Streaming Getting smart with MLlib ML classification and clustering Connecting the dots with GraphX PART 3 SPARK OPS Running Spark Running on a Spark standalone cluster Running on YARN and Mesos PART 4 BRINGING IT TOGETHER Case study real time dashboard Deep learning on Spark with H2O   **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 **Hadoop: The Definitive Guide** Tom White,2012-05-19 With the latest edition of this comprehensive resource readers will learn how to use Apache Hadoop to build and maintain reliable scalable distributed systems Ideal for programmers and administrators wanting to set up and analyze datasets of any size **Pro Hadoop Data Analytics** Kerry Koitzsch,2016-12-29 Learn advanced analytical techniques and leverage existing tool kits to make your analytic applications more powerful precise and efficient This book provides the right combination of architecture design and implementation information to create analytical systems that go beyond the basics of classification clustering and recommendation Pro Hadoop Data Analytics emphasizes best practices to ensure coherent efficient development A complete example system will be developed using standard third party components that consist of the tool kits libraries visualization and reporting code as well as support glue to provide a working and extensible end to end system The book also highlights the importance of end to end flexible configurable high performance data pipeline systems with analytical components as well as appropriate visualization results You ll discover the importance of mix and match or hybrid systems using different analytical components in one application This hybrid approach will be prominent in the examples What You ll Learn Build big data analytic systems with the Hadoop ecosystem Use libraries tool kits and algorithms to make development easier and more effective Apply metrics to measure performance and efficiency of components and systems Connect to standard relational databases noSQL data sources and more Follow case studies with

example components to create your own systems Who This Book Is For Software engineers architects and data scientists with an interest in the design and implementation of big data analytical systems using Hadoop the Hadoop ecosystem and other associated technologies   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   **Machine Learning in Action** Peter Harrington,2012-04-03 Summary Machine Learning in Action is unique book that blends the foundational theories of machine learning with the practical realities of building tools for everyday data analysis You ll use the flexible Python programming language to build programs that implement algorithms for data classification forecasting recommendations and higher level features like summarization and simplification About the Book A machine is said to learn when its performance improves with experience Learning requires algorithms and programs that capture data and ferret out the interestingor useful patterns Once the specialized domain of analysts and mathematicians machine learning is becoming a skill needed by many Machine Learning in Action is a clearly written tutorial for developers It avoids academic language and takes you straight to the techniques you ll use in your day to day work Many Python examples present the core algorithms of statistical data processing data analysis and data visualization in code you can reuse You ll understand the concepts and how they fit in with tactical tasks like classification forecasting recommendations and higher level features like summarization and simplification Readers need no prior experience with machine learning or statistical processing Familiarity with Python is helpful Purchase of the print book comes with an offer of a free PDF ePub and Kindle eBook from Manning Also available is all code from the book What s Inside A no nonsense introduction Examples showing common ML tasks Everyday data analysis Implementing classic algorithms like Apriori and Adaboos Table of Contents PART 1 CLASSIFICATION Machine learning basics Classifying with k Nearest Neighbors Splitting datasets one feature at a time decision trees Classifying with probability theory na ve Bayes Logistic regression Support vector machines Improving classification with the AdaBoost meta algorithm PART 2 FORECASTING NUMERIC VALUES WITH REGRESSION Predicting numeric values regression Tree based regression PART 3 UNSUPERVISED LEARNING Grouping unlabeled items using k means clustering Association analysis with the Apriori algorithm Efficiently finding frequent itemsets with FP growth PART 4 ADDITIONAL TOOLS Using principal component analysis to simplify data Simplifying data with the singular value decomposition Big data and MapReduce   **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 **HBase in Action** Amandeep Khurana,Nick Dimiduk,2012-11-01 Summary HBase in Action has all the knowledge you need to design build and run applications using HBase First it introduces you to the fundamentals of distributed systems and large scale data handling Then you ll explore real world applications and code samples with just enough theory to understand the practical techniques You ll see how to build applications with HBase and take advantage of the MapReduce processing framework And along the way you ll learn patterns and best practices About the Technology HBase is a NoSQL storage system designed for fast random access to large volumes of data It runs on commodity hardware and scales smoothly from modest datasets to billions of rows and millions of columns About this Book HBase in Action is an experience driven guide that shows you how to design build and run applications using HBase First it introduces you to the fundamentals of handling big data Then you ll explore HBase with the help of real applications and code samples and with just enough theory to back up the practical techniques You ll take advantage of the MapReduce processing framework and benefit from seeing HBase best practices in action Purchase of the print book comes with an offer of a free PDF ePub and Kindle eBook from Manning Also available is all code

from the book What s Inside When and how to use HBase Practical examples Design patterns for scalable data systems Deployment integration and design Written for developers and architects familiar with data storage and processing No prior knowledge of HBase Hadoop or MapReduce is required Table of Contents PART 1 HBASE FUNDAMENTALS Introducing HBase Getting started Distributed HBase HDFS and MapReduce PART 2 ADVANCED CONCEPTS HBase table design Extending HBase with coprocessors Alternative HBase clients PART 3 EXAMPLE APPLICATIONS HBase by example OpenTSDB Scaling GIS on HBase PART 4 OPERATIONALIZING HBASE Deploying HBase Operations   Professional Hadoop Solutions Boris Lublinsky,Kevin T. Smith,Alexey Yakubovich,2013-09-12 The go to guidebook for deploying Big Data solutions with Hadoop Today s enterprise architects need to understand how the Hadoop frameworks and APIs fit together and how they can be integrated to deliver real world solutions This book is a practical detailed guide to building and implementing those solutions with code level instruction in the popular Wrox tradition It covers storing data with HDFS and Hbase processing data with MapReduce and automating data processing with Oozie Hadoop security running Hadoop with Amazon Web Services best practices and automating Hadoop processes in real time are also covered in depth With in depth code examples in Java and XML and the latest on recent additions to the Hadoop ecosystem this complete resource also covers the use of APIs exposing their inner workings and allowing architects and developers to better leverage and customize them The ultimate guide for developers designers and architects who need to build and deploy Hadoop applications Covers storing and processing data with various technologies automating data processing Hadoop security and delivering real time solutions Includes detailed real world examples and code level guidelines Explains when why and how to use these tools effectively Written by a team of Hadoop experts in the programmer to programmer Wrox style Professional Hadoop Solutions is the reference enterprise architects and developers need to maximize the power of Hadoop   Big Data Made Easy Michael Frampton,2014-12-31 Many corporations are finding that the size of their data sets are outgrowing the capability of their systems to store and process them The data is becoming too big to manage and use with traditional tools The solution implementing a big data system As Big Data Made Easy A Working Guide to the Complete Hadoop Toolset shows Apache Hadoop offers a scalable fault tolerant system for storing and processing data in parallel It has a very rich toolset that allows for storage Hadoop configuration YARN and ZooKeeper collection Nutch and Solr processing Storm Pig and Map Reduce scheduling Oozie moving Sqoop and Avro monitoring Chukwa Ambari and Hue testing Big Top and analysis Hive The problem is that the Internet offers IT pros wading into big data many versions of the truth and some outright falsehoods born of ignorance What is needed is a book just like this one a wide ranging but easily understood set of instructions to explain where to get Hadoop tools what they can do how to install them how to configure them how to integrate them and how to use them successfully And you need an expert who has worked in this area for a decade someone just like author and big data expert Mike Frampton Big Data Made Easy approaches the problem of managing massive data sets from a systems

perspective and it explains the roles for each project like architect and tester for example and shows how the Hadoop toolset can be used at each system stage It explains in an easily understood manner and through numerous examples how to use each tool The book also explains the sliding scale of tools available depending upon data size and when and how to use them Big Data Made Easy shows developers and architects as well as testers and project managers how to Store big data Configure big data Process big data Schedule processes Move data among SQL and NoSQL systems Monitor data Perform big data analytics Report on big data processes and projects Test big data systems Big Data Made Easy also explains the best part which is that this toolset is free Anyone can download it and with the help of this book start to use it within a day With the skills this book will teach you under your belt you will add value to your company or client immediately not to mention your career   *Practical Hadoop Security* Bhushan Lakhe,2014-12-12 Practical Hadoop Security is an excellent resource for administrators planning a production Hadoop deployment who want to secure their Hadoop clusters A detailed guide to the security options and configuration within Hadoop itself author Bhushan Lakhe takes you through a comprehensive study of how to implement defined security within a Hadoop cluster in a hands on way You will start with a detailed overview of all the security options available for Hadoop including popular extensions like Kerberos and OpenSSH and then delve into a hands on implementation of user security with illustrated code samples with both in the box features and with security extensions implemented by leading vendors No security system is complete without a monitoring and tracing facility so Practical Hadoop Security next steps you through audit logging and monitoring technologies for Hadoop as well as ready to use implementation and configuration examples again with illustrated code samples The book concludes with the most important aspect of Hadoop security encryption Both types of encryptions for data in transit and data at rest are discussed at length with leading open source projects that integrate directly with Hadoop at no licensing cost Practical Hadoop Security Explains importance of security auditing and encryption within a Hadoop installation Describes how the leading players have incorporated these features within their Hadoop distributions and provided extensions Demonstrates how to set up and use these features to your benefit and make your Hadoop installation secure without impacting performance or ease of use

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