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Hadoop Application Architectures

DESIGNING REAL WORLD BIG DATA APPLICATIONS

Mark Grover, Ted Malaska,
Jonathan Seidman & Gwen Shapira

Hadoop Application Architectures Designing Real World Big Data Applications

Bhushan Lakhe



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Hadoop Application Architectures Mark Grover, Ted Malaska, Jonathan Seidman, Gwen Shapira, 2015-06-30 Get expert guidance on architecting end to end data management solutions with Apache Hadoop While many sources explain how to use various components in the Hadoop ecosystem this practical book takes you through architectural considerations necessary to tie those components together into a complete tailored application based on your particular use case To reinforce those lessons the book s second section provides detailed examples of architectures used in some of the most commonly found Hadoop applications Whether you re designing a new Hadoop application or planning to integrate Hadoop into your existing data infrastructure Hadoop Application Architectures will skillfully guide you through the process This book covers Factors to consider when using Hadoop to store and model data Best practices for moving data in and out of the system Data processing frameworks including MapReduce Spark and Hive Common Hadoop processing patterns such as removing duplicate records and using windowing analytics Giraph GraphX and other tools for large graph processing on Hadoop Using workflow orchestration and scheduling tools such as Apache Oozie Near real time stream processing with Apache Storm Apache Spark Streaming and Apache Flume Architecture examples for clickstream analysis fraud detection and data warehousing

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Hadoop Application Architectures Mark Grover, Ted Malaska, Jonathan Seidman, Gwen Shapira, 2015

Innovations in Big Data Mining and Embedded Knowledge Anna Esposito, Antonietta M. Esposito, Lakhmi C. Jain, 2019-07-03 This book addresses the usefulness of knowledge discovery through data mining With this aim contributors from different fields propose concrete problems and applications showing how data mining and discovering embedded knowledge from raw data can be beneficial to social organizations domestic spheres and ICT markets Data mining or knowledge discovery in databases KDD has received increasing interest due to its focus on transforming large amounts of data into novel valid useful and structured knowledge by detecting concealed patterns and relationships The concept of knowledge is broad and speculative and has promoted epistemological debates in western philosophies The intensified interest in knowledge management and data mining stems from the difficulty in identifying computational models able to approximate human behaviors and abilities in resolving organizational social and physical problems Current ICT interfaces are not yet adequately advanced to support and simulate

the abilities of physicians teachers assistants or housekeepers in domestic spheres And unlike in industrial contexts where abilities are routinely applied the domestic world is continuously changing and unpredictable There are challenging questions in this field Can knowledge locked in conventions rules of conduct common sense ethics emotions laws cultures and experiences be mined from data Is it acceptable for automatic systems displaying emotional behaviors to govern complex interactions based solely on the mining of large volumes of data Discussing multidisciplinary themes the book proposes computational models able to approximate to a certain degree human behaviors and abilities in resolving organizational social and physical problems The innovations presented are of primary importance for a The academic research community b The ICT market c Ph D students and early stage researchers d Schools hospitals rehabilitation and assisted living centers e Representatives from multimedia industries and standardization bodies

Handbook of Research on Big Data and the IoT Kaur, Gurjit, Tomar, Pradeep, 2019-03-29 The increase in connected devices in the internet of things IoT is leading to an exponential increase in the data that an organization is required to manage To successfully utilize IoT in businesses big data analytics are necessary in order to efficiently sort through the increased data The combination of big data and IoT can thus enable new monitoring services and powerful processing of sensory data streams The Handbook of Research on Big Data and the IoT is a pivotal reference source that provides vital research on emerging trends and recent innovative applications of big data and IoT challenges facing organizations and the implications of these technologies on society and best practices for their implementation While highlighting topics such as bootstrapping data fusion and graph mining this publication is ideally designed for IT specialists managers policymakers analysts software engineers academicians and researchers

Big Data Computing Vivek Kale, 2016-11-25 This book unravels the mystery of Big Data computing and its power to transform business operations The approach it uses will be helpful to any professional who must present a case for realizing Big Data computing solutions or to those who could be involved in a Big Data computing project It provides a framework that enables business and technical managers to make optimal decisions necessary for the successful migration to Big Data computing environments and applications within their organizations

Big Data Analytics Dr. N. Bharathi, SVN Mahesh Duriseati, Dr. Divvela Srinivasa Rao, J. Rohini, 2025-10-27 Big Data Analytics is the process of examining large complex and rapidly growing datasets called big data to uncover hidden patterns trends correlations and useful insights These datasets are too large or fast changing to be processed using traditional data analysis tools Big Data Analytics uses advanced techniques such as machine learning data mining statistical analysis and predictive modeling to extract meaningful information that supports decision making

Research Methods: A Practical Guide For Students And Researchers Willie Chee Keong Tan, 2017-07-27 For many students doing research is often a joyless struggle This book provides practical advice on how to do research in a concise way It uses classic examples to show how experts conduct their research in different fields allowing this book to be used in different disciplines Research Methods A Practical Guide for Students and Researchers provides a

practical guide to students and researchers on how to do their research systematically and professionally The book begins by distinguishing between causal and interpretive sciences It then guides the reader on how to formulate the research question review the literature develop the hypothesis or theoretical framework select a suitable research methodology and analyze both quantitative and qualitative data The book emphasizes integration It does not merely provide a smorgasbord of research designs data collection methods and ways to analyze data Instead it shows how one can integrate these elements into a coherent research strategy

Encyclopedia of Data Science and Machine Learning Wang, John,2023-01-20 Big data and machine learning are driving the Fourth Industrial Revolution With the age of big data upon us we risk drowning in a flood of digital data Big data has now become a critical part of both the business world and daily life as the synthesis and synergy of machine learning and big data has enormous potential Big data and machine learning are projected to not only maximize citizen wealth but also promote societal health As big data continues to evolve and the demand for professionals in the field increases access to the most current information about the concepts issues trends and technologies in this interdisciplinary area is needed The Encyclopedia of Data Science and Machine Learning examines current state of the art research in the areas of data science machine learning data mining and more It provides an international forum for experts within these fields to advance the knowledge and practice in all facets of big data and machine learning emphasizing emerging theories principals models processes and applications to inspire and circulate innovative findings into research business and communities Covering topics such as benefit management recommendation system analysis and global software development this expansive reference provides a dynamic resource for data scientists data analysts computer scientists technical managers corporate executives students and educators of higher education government officials researchers and academicians

The A.I. Marketer Andrew W. Pearson,2019-04-15 We seem to be living in the age of A I Everywhere you look companies are touting their most recent A I machine learning and deep learning breakthroughs even when they are far short of anything that could be touted as a breakthrough A I has eclipsed Blockchain and Crypto as the buzzword of today Indeed one of the best ways to raise VC funding is to stick AI or ML at the front of your prospectus and ai at the end of your website Separating fact from fiction is more important than it has ever been The A I Marketer breaks down A I machine learning and deep learning into five unique use cases sound time series text image and video and also reveals how marketing executives can utilize this powerful technology to help them more finely tune their marketing campaigns better segment their customers increase lead generation and foster strong customer loyalty Today Personalization the process of utilizing mobile social geo location data web morphing context and even affective computing to tailor messages and experiences to an individual interacting with them is becoming the optimum word in a radically new customer intelligence environment The A I Marketer explains this complex technology in simple to understand terms and then shows how marketers can utilize the psychology of personalization with A I to both create more effective marketing campaigns as well as increase customer

loyalty Pearson shows companies how to avoid Adobe's warning of not using industrial age technology in the digital era Pearson also reveals how to create a platform of technology that seamlessly integrates EDW and real time streaming data with social media content Analytical models and neural nets can then be built on both commercial and open source technology to better understand the customer thereby strengthening the brand and just as importantly increasing ROI

Distributed Computing and Artificial Intelligence, 15th International Conference Fernando De La Prieta, Sigeru Omatu, Antonio Fernández-Caballero, 2018-07-04 The 15th International Symposium on Distributed Computing and Artificial Intelligence 2018 DCAI 2018 is a forum to present applications of innovative techniques for studying and solving complex problems The exchange of ideas between scientists and technicians from both the academic and industrial sector is essential to facilitate the development of systems that can meet the ever increasing demands of today's society The present edition brings together past experience current work and promising future trends associated with distributed computing artificial intelligence and their application in order to provide efficient solutions to real problems This symposium is organized by the University of Castilla La Mancha the Osaka Institute of Technology and the University of Salamanca The present edition was held in Toledo Spain from 20th 22nd June 2018 *Architecting Modern Data Platforms* Jan Kunigk, Ian Buss, Paul

Wilkinson, Lars George, 2018-12-05 There's a lot of information about big data technologies but splicing these technologies into an end to end enterprise data platform is a daunting task not widely covered With this practical book you'll learn how to build big data infrastructure both on premises and in the cloud and successfully architect a modern data platform Ideal for enterprise architects IT managers application architects and data engineers this book shows you how to overcome the many challenges that emerge during Hadoop projects You'll explore the vast landscape of tools available in the Hadoop and big data realm in a thorough technical primer before diving into Infrastructure Look at all component layers in a modern data platform from the server to the data center to establish a solid foundation for data in your enterprise Platform Understand aspects of deployment operation security high availability and disaster recovery along with everything you need to know to integrate your platform with the rest of your enterprise IT Taking Hadoop to the cloud Learn the important architectural aspects of running a big data platform in the cloud while maintaining enterprise security and high availability **Hadoop Security** Ben Spivey, Joey Echeverria, 2015-06-29 As more corporations turn to Hadoop to store and process their most valuable data the risk of a potential breach of those systems increases exponentially This practical book not only shows Hadoop administrators and security architects how to protect Hadoop data from unauthorized access it also shows how to limit the ability of an attacker to corrupt or modify data in the event of a security breach Authors Ben Spivey and Joey Echeverria provide in depth information about the security features available in Hadoop and organize them according to common computer security concepts You'll also get real world examples that demonstrate how you can apply these concepts to your use cases Understand the challenges of securing distributed systems particularly Hadoop Use best practices for

preparing Hadoop cluster hardware as securely as possible Get an overview of the Kerberos network authentication protocol Delve into authorization and accounting principles as they apply to Hadoop Learn how to use mechanisms to protect data in a Hadoop cluster both in transit and at rest Integrate Hadoop data ingest into enterprise wide security architecture Ensure that security architecture reaches all the way to end user access

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

Practical Hadoop Migration Bhushan Lakhe, 2016-08-10 Re architect relational applications to NoSQL integrate relational database management systems with the Hadoop ecosystem and transform and migrate relational data to and from Hadoop components This book covers the best practice design approaches to re architecting your relational applications and transforming your relational data to optimize concurrency security denormalization and performance Winner of IBM s 2012 Gerstner Award for his implementation of big data and data warehouse initiatives and author of **Practical Hadoop Security** author Bhushan Lakhe walks you through the entire transition process First he lays out the criteria for deciding what blend of re architecting migration and integration between RDBMS and HDFS best meets your transition objectives Then he demonstrates how to design your transition model Lakhe proceeds to cover the selection criteria for ETL tools the implementation steps for migration with SQOOP and Flume based data transfers and transition optimization techniques for tuning partitions scheduling aggregations and redesigning ETL Finally he assesses the pros and cons of data lakes and Lambda architecture as integrative solutions and illustrates their implementation with real world case studies Hadoop NoSQL solutions do not offer by default certain relational technology features such as role based access control locking for concurrent updates and various tools for measuring and enhancing performance **Practical Hadoop Migration** shows how to use open source tools to emulate such relational functionalities in

Hadoop ecosystem components What You'll Learn Decide whether you should migrate your relational applications to big data technologies or integrate them Transition your relational applications to Hadoop NoSQL platforms in terms of logical design and physical implementation Discover RDBMS to HDFS integration data transformation and optimization techniques Consider when to use Lambda architecture and data lake solutions Select and implement Hadoop based components and applications to speed transition optimize integrated performance and emulate relational functionalities Who This Book Is For Database developers database administrators enterprise architects Hadoop NoSQL developers and IT leaders Its secondary readership is project and program managers and advanced students of database and management information systems **Big Data**

Application Architecture Q&A Nitin Sawant, Himanshu Shah, 2013-12-17 The expert's voice in big data Cover

Architecting Big Data: Mastering Hadoop Solution, Architecting Big Data Mastering Hadoop Solutions Certification is a comprehensive guide tailored for professionals seeking to become proficient in architecting Hadoop solutions for big data applications Authored by industry experts with extensive experience in big data technologies and Hadoop ecosystems this book offers a succinct yet thorough overview of the concepts techniques and best practices essential for success in this rapidly evolving field The book begins by providing a solid foundation in big data fundamentals covering topics such as data storage processing frameworks and distributed computing principles It then delves into the intricacies of the Hadoop ecosystem including HDFS Hadoop Distributed File System MapReduce YARN Yet Another Resource Negotiator and various Hadoop ecosystem projects like Hive Pig and Spark Through clear explanations and practical examples readers gain a deep understanding of how these components work together to handle large volumes of data efficiently One of the book's key strengths lies in its focus on architectural considerations Readers learn how to design scalable fault tolerant and high performance Hadoop solutions that meet the unique requirements of their organizations From data ingestion and storage to processing and analysis the authors provide insights into designing robust architectures that optimize resource utilization and minimize latency Moreover the book addresses advanced topics such as data governance security and optimization techniques ensuring that readers are well equipped to address the complexities of real world big data projects Throughout the book emphasis is placed on practical implementation with hands on exercises and case studies that reinforce learning and facilitate skill development Whether you're a seasoned data professional looking to expand your expertise or a newcomer seeking to enter the field of big data architecture Architecting Big Data Mastering Hadoop Solutions Certification serves as an invaluable resource By combining comprehensive coverage of Hadoop technologies with practical insights and expert guidance this book equips readers with the knowledge and skills needed to excel as Hadoop solution architects in today's data driven world *Apache Oozie* Mohammad Kamrul Islam, Aravind Srinivasan, 2015-05-12 Get a solid grounding in Apache Oozie the workflow scheduler system for managing Hadoop jobs With this hands on guide two experienced Hadoop practitioners walk you through the intricacies of this powerful and flexible platform with numerous examples and real world

use cases Once you set up your Oozie server you'll dive into techniques for writing and coordinating workflows and learn how to write complex data pipelines Advanced topics show you how to handle shared libraries in Oozie as well as how to implement and manage Oozie's security capabilities Install and configure an Oozie server and get an overview of basic concepts Journey through the world of writing and configuring workflows Learn how the Oozie coordinator schedules and executes workflows based on triggers Understand how Oozie manages data dependencies Use Oozie bundles to package several coordinator apps into a data pipeline Learn about security features and shared library management Implement custom extensions and write your own EL functions and actions Debug workflows and manage Oozie's operational details

Hadoop For Dummies Dirk deRoos, 2014-03-21 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 without 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 scalable 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 *Modern Big Data Processing with Hadoop V* Naresh Kumar, Prashant Shindgikar, 2018-03-30 A comprehensive guide to design build and execute effective Big Data strategies using Hadoop Key Features Get an in depth view of the Apache Hadoop ecosystem and an overview of the architectural patterns pertaining to the popular Big Data platform Conquer different data processing and analytics challenges using a multitude of tools such as Apache Spark Elasticsearch Tableau and more A comprehensive step by step guide that will teach you everything you need to know to be an expert Hadoop Architect Book Description The complex structure of data these days requires sophisticated solutions for data transformation to make the information more accessible to the users This book empowers you to build such solutions with relative ease with the help of Apache Hadoop along with a host of other Big Data tools This book will give you a complete understanding of the data lifecycle management with Hadoop followed by modeling of structured and unstructured data in Hadoop It will also show you how to design real time streaming pipelines by leveraging tools such as Apache Spark and build efficient enterprise search solutions using Elasticsearch You will learn to build enterprise grade analytics solutions on Hadoop and how to visualize your data using tools such as Apache

Superset This book also covers techniques for deploying your Big Data solutions on the cloud Apache Ambari as well as expert techniques for managing and administering your Hadoop cluster By the end of this book you will have all the knowledge you need to build expert Big Data systems What you will learn Build an efficient enterprise Big Data strategy centered around Apache Hadoop Gain a thorough understanding of using Hadoop with various Big Data frameworks such as Apache Spark Elasticsearch and more Set up and deploy your Big Data environment on premises or on the cloud with Apache Ambari Design effective streaming data pipelines and build your own enterprise search solutions Utilize the historical data to build your analytics solutions and visualize them using popular tools such as Apache Superset Plan set up and administer your Hadoop cluster efficiently Who this book is for This book is for Big Data professionals who want to fast track their career in the Hadoop industry and become an expert Big Data architect Project managers and mainframe professionals looking forward to build a career in Big Data Hadoop will also find this book to be useful Some understanding of Hadoop is required to get the best out of this book

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