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Hadoop Application Architectures

Rachel S Tattersall



Hadoop Application Architectures:

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

Hadoop Application Architectures Mark Grover, 2015 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 , **Big Data Application Architecture Q&A** Nitin Sawant, Himanshu Shah, 2014-01-24 Big Data Application Architecture Pattern Recipes provides an insight into heterogeneous infrastructures databases and visualization and analytics tools used for realizing the architectures of big data solutions Its problem solution approach helps in selecting the right architecture to solve the problem at hand In the process of reading through these problems you will learn harness the power of new big data opportunities which various enterprises use to attain real time profits Big Data Application Architecture Pattern Recipes answers one of the most critical questions of this time how do you select the best end to end architecture to solve your big data problem The book deals with various mission critical problems encountered by solution architects consultants and software architects while dealing with the myriad options available for implementing a typical solution trying to extract insight from huge volumes of data in real time and across multiple relational and non relational data types for clients from industries like retail telecommunication banking

and insurance The patterns in this book provide the strong architectural foundation required to launch your next big data application The architectures for realizing these opportunities are based on relatively less expensive and heterogeneous infrastructures compared to the traditional monolithic and hugely expensive options that exist currently This book describes and evaluates the benefits of heterogeneity which brings with it multiple options of solving the same problem evaluation of trade offs and validation of fitness for purpose of the solution

Hadoop Application Architectures Mark Grover,Ted Malaska,Jonathan Seidman,Gwen Shapira,2017

Data Analytics with Hadoop Benjamin Bengfort,Jenny Kim,2016-06-01

Ready to use statistical and machine learning techniques across large data sets This practical guide shows you why the Hadoop ecosystem is perfect for the job Instead of deployment operations or software development usually associated with distributed computing you ll focus on particular analyses you can build the data warehousing techniques that Hadoop provides and higher order data workflows this framework can produce Data scientists and analysts will learn how to perform a wide range of techniques from writing MapReduce and Spark applications with Python to using advanced modeling and data management with Spark MLlib Hive and HBase You ll also learn about the analytical processes and data systems available to build and empower data products that can handle and actually require huge amounts of data Understand core concepts behind Hadoop and cluster computing Use design patterns and parallel analytical algorithms to create distributed data analysis jobs Learn about data management mining and warehousing in a distributed context using Apache Hive and HBase Use Sqoop and Apache Flume to ingest data from relational databases Program complex Hadoop and Spark applications with Apache Pig and Spark DataFrames Perform machine learning techniques such as classification clustering and collaborative filtering with Spark s MLlib

Foundations for Architecting Data Solutions Ted Malaska,Jonathan Seidman,2018-08-29

While many companies ponder implementation details such as distributed processing engines and algorithms for data analysis this practical book takes a much wider view of big data development starting with initial planning and moving diligently toward execution Authors Ted Malaska and Jonathan Seidman guide you through the major components necessary to start architect and develop successful big data projects Everyone from CIOs and COOs to lead architects and developers will explore a variety of big data architectures and applications from massive data pipelines to web scale applications Each chapter addresses a piece of the software development life cycle and identifies patterns to maximize long term success throughout the life of your project Start the planning process by considering the key data project types Use guidelines to evaluate and select data management solutions Reduce risk related to technology your team and vague requirements Explore system interface design using APIs REST and pub sub systems Choose the right distributed storage system for your big data system Plan and implement metadata collections for your data architecture Use data pipelines to ensure data integrity from source to final storage Evaluate the attributes of various engines for processing the data you collect

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 *IBM Technical Computing Clouds* Dino Quintero,Rodrigo Ceron Ferreira de Castro,Murali Dhandapani,Rodrigo Garcia da Silva,Amitava Ghosal,Victor Hu,Hua Chen Li,Kailash Marthi,Shao Feng Shi,Stefan Velica,IBM Redbooks,2013-10-28 This IBM Redbooks publication highlights IBM Technical Computing as a flexible infrastructure for clients looking to reduce capital and operational expenditures optimize energy usage or re use the infrastructure This book strengthens IBM SmartCloud solutions in particular IBM Technical Computing clouds with a well defined and documented deployment model within an IBM System x or an IBM Flex System™ This provides clients with a cost effective highly scalable robust solution with a planned foundation for scaling capacity resilience optimization automation and monitoring This book is targeted toward technical professionals consultants technical support staff IT Architects and IT Specialists responsible for providing cloud computing solutions and support **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 *Designing Data-Intensive Applications* Martin Kleppmann,2017-03-16 Data is at the center of many challenges in system design today Difficult issues need to be figured out such as scalability consistency reliability efficiency and maintainability In addition we have an overwhelming variety of tools including relational databases NoSQL datastores stream or batch processors and message brokers What are the right choices for your application How do you make sense of all these buzzwords In this practical and comprehensive guide author Martin Kleppmann helps you navigate this diverse landscape by examining the pros and cons of various technologies for processing and storing data Software keeps changing but the fundamental principles remain the same With this book software engineers and architects will learn how to apply those ideas in practice and how to make full use of data in modern applications Peer

under the hood of the systems you already use and learn how to use and operate them more effectively Make informed decisions by identifying the strengths and weaknesses of different tools Navigate the trade offs around consistency scalability fault tolerance and complexity Understand the distributed systems research upon which modern databases are built Peek behind the scenes of major online services and learn from their architectures *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 [Big Data Application Architecture Q&A](#) Nitin Sawant, Himanshu Shah, 2013-12-17 The expert s voice in big data Cover **Big Data Imperatives** Soumendra Mohanty, Madhu Jagadeesh, Harsha Srivatsa, 2013-08-23 *Big Data Imperatives* focuses on resolving the key questions on everyone s mind Which data matters Do you have enough data volume to justify the usage How you want to process this amount of data How long do you really need to keep it active for your analysis marketing and BI applications Big data is emerging from the realm of one off projects to mainstream business adoption however the real value of big data is not in the overwhelming size of it but more in its effective use This book addresses the following big data characteristics Very large distributed aggregations of loosely structured data often incomplete and inaccessible Petabytes Exabytes of data Millions billions of people providing contributing to the context behind the data Flat schema s with few complex interrelationships

Involves time stamped events Made up of incomplete data Includes connections between data elements that must be probabilistically inferred Big Data Imperatives explains what big data can do It can batch process millions and billions of records both unstructured and structured much faster and cheaper Big data analytics provide a platform to merge all analysis which enables data analysis to be more accurate well rounded reliable and focused on a specific business capability Big Data Imperatives describes the complementary nature of traditional data warehouses and big data analytics platforms and how they feed each other This book aims to bring the big data and analytics realms together with a greater focus on architectures that leverage the scale and power of big data and the ability to integrate and apply analytics principles to data which earlier was not accessible This book can also be used as a handbook for practitioners helping them on methodology technical architecture analytics techniques and best practices At the same time this book intends to hold the interest of those new to big data and analytics by giving them a deep insight into the realm of big data **Advances in Computing** Andrés Solano,Hugo Ordoñez,2017-08-14 This book constitutes the refereed proceedings of the 12th Colombian Conference on Computing CCC 2017 held in Cali Colombia in September 2017 The 56 revised full papers presented were carefully reviewed and selected from 186 submissions The papers are organized in topical sections on information and knowledge management software engineering and IT architectures educational informatics intelligent systems and robotics human computer interaction distributed systems and large scale architectures image processing computer vision and multimedia security of the information formal methods computational logic and theory of computation *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 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

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

Big Data Analytics Ümit Demirbaga,Gagangeet Singh Aujla,Anish Jindal,Oğuzhan Kalyon,2024-05-07 This book introduces readers to big data analytics It covers the background to and the concepts of big data big data analytics and cloud computing along with the process of setting up configuring and getting familiar with the big data analytics working environments in the first two chapters The third chapter provides comprehensive information on big data processing systems from installing these systems to implementing real world data applications along with the necessary codes The next chapter dives into the details of big data storage technologies including their types essentiality durability and availability and reveals their differences in their properties The fifth and sixth chapters guide the reader through understanding configuring and performing the monitoring and debugging of big data systems and present the available commercial and open source tools for this purpose Chapter seven gives information about a trending machine learning Bayesian network a probabilistic graphical model by presenting a real world probabilistic application to understand causal complex and hidden relationships for diagnosis and forecasting in a scalable manner for big data Special sections throughout the eighth chapter present different case studies and applications to help the readers to develop their big data analytics skills using various big data analytics frameworks The book will be of interest to business executives and IT managers as well as university students and their course leaders in fact all those who want to get involved in the big data world

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