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Hadoop

The Definitive Guide

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Hadoop The Definite Guide

Tom E. White



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Hadoop Tom E. White, 2015 Offers information on how to build and maintain reliable scalable distributed systems with Apache Hadoop covering such topics as MapReduce HDFS YARN Avro for data serialization Parquet for nested data and data ingestion tools Flume and Sqoop

Hadoop Tom E. White, 2012 Ready to unlock the power of your data With this comprehensive guide you'll learn how to build and maintain reliable scalable distributed systems with Apache Hadoop This book is ideal for programmers looking to analyze datasets of any size and for administrators who want to set up and run Hadoop clusters You'll find illuminating case studies that demonstrate how Hadoop is used to solve specific problems This third edition covers recent changes to Hadoop including material on the new MapReduce API as well as MapReduce 2 and its more flexible execution model YARN Store large datasets with the Hadoop Distributed File System HDFS Run distributed computations with MapReduce Use Hadoop's data and I/O building blocks for compression data integrity serialization including Avro and persistence Discover common pitfalls and advanced features for writing real world MapReduce programs Design build and administer a dedicated Hadoop cluster or run Hadoop in the cloud Load data from relational databases into HDFS using Sqoop Perform large scale data processing with the Pig query language Analyze datasets with Hive Hadoop's data warehousing system Take advantage of HBase for structured and semi structured data and ZooKeeper for building

distributed systems *Hadoop* Davud Keulen, 2014-11-26 Introduction Data warehousing is a success judging by its 25 year history of use across all industries Business intelligence met the needs it was designed for to give non technical people within the organization access to important shared data During the same period that data warehousing and BI matured the automation and instrumenting of almost all processes and activities changed the data landscape in most companies Where there were only a few applications and minimal monitoring 25 years ago there is ubiquitous computing and data available about every activity today Data warehouses have not been able to keep up with business demands for new sources of information new types of data more complex analysis and greater speed Companies can put this data to use in countless ways but for most it remains uncollected or unused locked away in silos within IT There has been a gradual maturing of data use in organizations In the early days of BI it was enough to provide access to core financial and customer transactions Better access enabled process changes and these led to the need for more data and more varied uses of information These changes put increasing strain on information processing and delivery capabilities that were designed under assumptions of stability and common use Most companies now have a backlog of new data and analysis requests that BI groups are struggling to meet Big data is not simply about growing data volumes it is also about the fact that the data being collected today is different in ways that make it unwieldy for conventional databases and BI tools Big data is also about new technologies that were developed to support the storage retrieval and processing of this new data The technologies originated in the world of web applications and internet based companies but they are now spreading into enterprise applications of all sorts New technology coupled with new data enables new practices like real time monitoring of operations across retail channels supply chain practices at finer grain and faster speed and analysis of customers at the level of individual activities and behaviors Until recently large scale data collection and analysis capabilities like these would have required a Wal Mart sized investment limiting them to large organizations These capabilities are now available to all regardless of company size or budget This is creating a rush to adopt big data technologies As the use of big data grows the need for data management will grow Many organizations already struggle to manage existing data Big data adds complexity which will only increase the challenge The combination of new data and new technology requires new data management capabilities and processes to capture the promised long term value Wal Mart handles more than a million customer transactions each hour and imports those into databases estimated to contain more than 2.5 petabytes of data Radio frequency identification RFID systems used by retailers and others can generate 100 to 1 000 times the data of conventional bar code systems Facebook handles more than 250 million photo uploads and the interactions of 800 million active users with more than 900 million objects pages groups etc each day More than 5 billion people are calling texting tweeting and browsing on mobile phones worldwide Organizations are inundated with data terabytes and petabytes of it To put it in context 1 terabyte contains 2 000 hours of CD quality music and 10 terabytes could store the entire US Library of Congress print collection Exabytes zettabytes and

yottabytes definitely are on the horizon Data is pouring in from every conceivable direction from operational and transactional systems from scanning and facilities management systems from inbound and outbound customer contact points from mobile media and the Web

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

Using Flume Hari Shreedharan, 2014-09-16 How can you get your data from frontend servers to Hadoop in near real time With this complete reference guide you'll learn Flume's rich set of features for collecting aggregating and writing large amounts of streaming data to the Hadoop Distributed File System HDFS Apache HBase SolrCloud Elastic Search and other systems Using Flume shows operations engineers how to configure deploy and monitor a Flume cluster and teaches developers how to write Flume plugins and custom components for their specific use cases You'll learn about Flume's design and implementation as well as various features that make it highly scalable flexible and reliable Code examples and exercises are available on GitHub Learn how Flume provides a steady rate of flow by acting as a buffer between data producers and consumers Dive into key Flume components including sources that accept data and sinks that write and deliver it Write custom plugins to customize the way Flume receives modifies formats and writes data Explore APIs for sending data to Flume agents from your own applications Plan and deploy Flume in a scalable and flexible way and monitor your cluster once it's running

Hadoop Operations Eric Sammer, 2012-10-09 For system administrators tasked with the job of maintaining large and complex Hadoop clusters this book explains the particulars of Hadoop operations from planning installing and configuring the system to providing ongoing maintenance

Big Data Management, Technologies, and Applications Hu, Wen-Chen, Kaabouch, Naima, 2013-10-31 This book discusses the exponential growth of information size and the innovative methods for data capture storage sharing and analysis for big

data Provided by publisher Data Pioneers: Unlocking Big Data Engineering Potential Ravi Kumar Burila, 2024-06-19 The era of big data has revolutionized industries but navigating its complexities requires a deep understanding of engineering principles and cutting edge tools Data Pioneers Unlocking Big Data Engineering Potential serves as a comprehensive guide for data engineers and IT professionals eager to master the art and science of big data systems This book covers the evolution of big data emphasizing core concepts like structured semi structured and unstructured data while introducing readers to essential frameworks including Hadoop Apache Spark and Delta Lake Dive into the design and architecture of scalable pipelines comparing batch and real time processing and learn how to harness tools like Kafka Airflow and NiFi to orchestrate seamless data flows Beyond the technical the book addresses vital aspects like data quality governance and security offering strategies to ensure data accuracy lineage and compliance From integrating data across APIs databases and sensors to leveraging cloud native architectures for scalability this guide equips readers with the knowledge to optimize every aspect of their data ecosystems With practical insights advanced analytics techniques and real world case studies Data Pioneers delves into performance optimization resource management and the future of big data exploring trends like AI integration and data fabric concepts Whether you re a seasoned engineer or new to the field this book provides a roadmap to unlocking the full potential of big data engineering driving innovation and achieving sustainable growth in today s data driven world

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