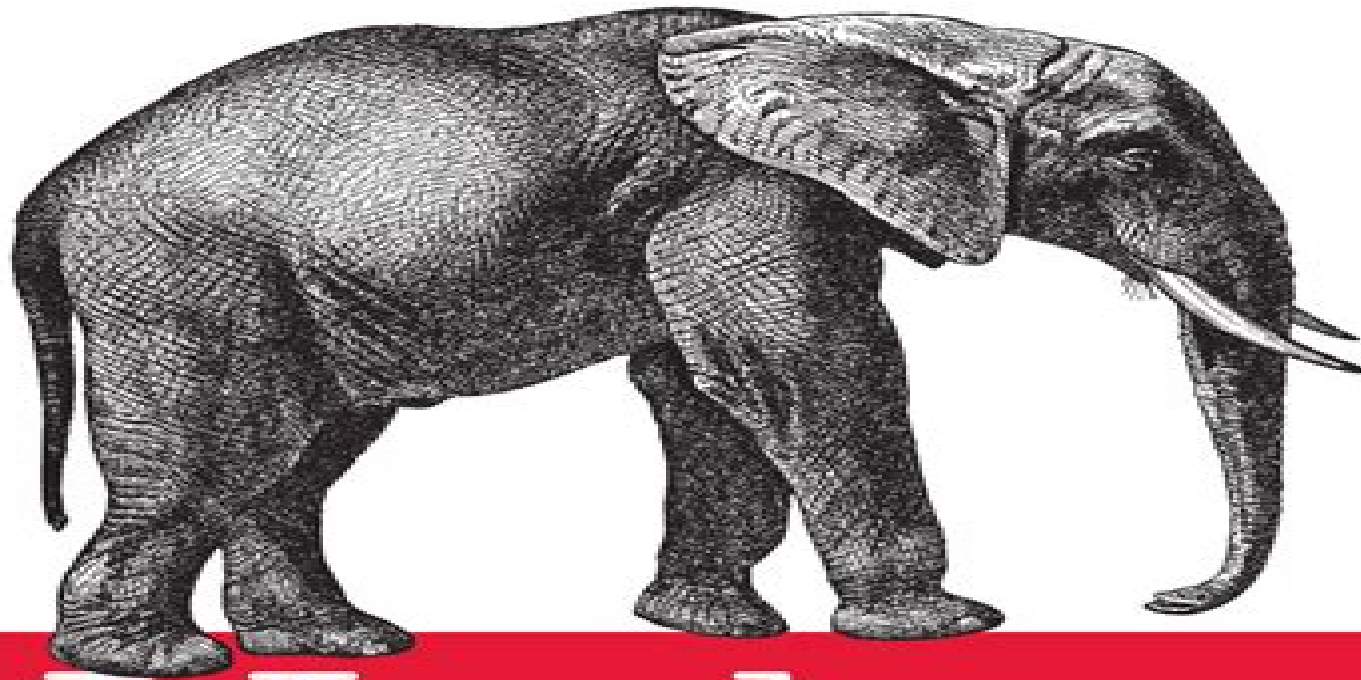


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ZooKeeper for building distributed systems **Hadoop** Davud Keulen, 2014-11-26

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 s 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

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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

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Table of Contents Hadoop The Definitive Guide

1. Understanding the eBook Hadoop The Definitive Guide
 - The Rise of Digital Reading Hadoop The Definitive Guide
 - Advantages of eBooks Over Traditional Books
2. Identifying Hadoop The Definitive Guide
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Hadoop The Definitive Guide
 - User-Friendly Interface
4. Exploring eBook Recommendations from Hadoop The Definitive Guide
 - Personalized Recommendations

- Hadoop The Definitive Guide User Reviews and Ratings
- Hadoop The Definitive Guide and Bestseller Lists
- 5. Accessing Hadoop The Definitive Guide Free and Paid eBooks
 - Hadoop The Definitive Guide Public Domain eBooks
 - Hadoop The Definitive Guide eBook Subscription Services
 - Hadoop The Definitive Guide Budget-Friendly Options
- 6. Navigating Hadoop The Definitive Guide eBook Formats
 - ePub, PDF, MOBI, and More
 - Hadoop The Definitive Guide Compatibility with Devices
 - Hadoop The Definitive Guide Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Hadoop The Definitive Guide
 - Highlighting and Note-Taking Hadoop The Definitive Guide
 - Interactive Elements Hadoop The Definitive Guide
- 8. Staying Engaged with Hadoop The Definitive Guide
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Hadoop The Definitive Guide
- 9. Balancing eBooks and Physical Books Hadoop The Definitive Guide
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Hadoop The Definitive Guide
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Hadoop The Definitive Guide
 - Setting Reading Goals Hadoop The Definitive Guide
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Hadoop The Definitive Guide
 - Fact-Checking eBook Content of Hadoop The Definitive Guide

- Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
- 14. Embracing eBook Trends
 - Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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