

NAR Labs 國家實驗研究院

國家高速網路與計算中心

Headfirst 之 Hadoop的生態系

陳威宇

Headfirst Hadoop Edition

**Holden Karau, Andy Konwinski, Patrick
Wendell, Matei Zaharia**



Headfirst Hadoop Edition:

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

Microsoft Big Data Solutions Adam Jorgensen, James Rowland-Jones, John Welch, Dan Clark, Christopher Price, Brian Mitchell, 2014-02-24 Tap the power of Big Data with Microsoft technologies Big Data is here and Microsoft s new Big Data platform is a valuable tool to help your company get the very most out of it This timely book shows you how to use HDInsight along with HortonWorks Data Platform for Windows to store manage analyze and share Big Data throughout the enterprise Focusing primarily on Microsoft and HortonWorks technologies but also covering open source tools Microsoft Big Data Solutions explains best practices covers on premises and cloud based solutions and features valuable case studies Best of all it helps you integrate these new solutions with technologies you already know such as SQL Server and Hadoop Walks you through how to integrate Big Data solutions in your company using Microsoft s HDInsight Server HortonWorks Data Platform for Windows and open source tools Explores both on premises and cloud based solutions Shows how to store manage analyze and share Big Data through the enterprise Covers topics such as Microsoft s approach to Big Data installing and configuring HortonWorks Data Platform for Windows integrating Big Data with SQL Server visualizing data with Microsoft and HortonWorks BI tools and more Helps you build and execute a Big Data plan Includes contributions from the Microsoft and HortonWorks Big Data product teams If you need a detailed roadmap for designing and implementing a fully deployed Big Data solution you ll want Microsoft Big Data Solutions

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Demystifying Emerging Trends in Machine Learning Pankaj Kumar Mishra, Satya Prakash Yadav, 2025-02-17 Demystifying Emerging Trends in Machine Learning Volume 2 offers a deep dive into emerging and trending topics in the field of machine learning ML This edited volume showcases several machine learning methods for a variety of tasks A key focus of this volume is the application of text classification for cybersecurity E commerce sentiment analysis public health and web content analysis The 49 chapters highlight a wide variety of machine learning methods including SVNs K Means Clustering CNNs DCNNs among others Each chapter includes accessible information through summaries discussions and reference lists This comprehensive volume is essential for students researchers and professionals eager to understand the emerging trends reshaping machine learning today

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