



Practical Hadoop Migration: How to Integrate Your RDBMS with the Hadoop Ecosystem and Re-Architect Relational Applications to NoSQL

Bhushan Lakhe

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Practical Hadoop Migration shows database developers, database administrators, enterprise architects, and IT leaders how to 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.

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. He covers the best-practice design approaches to re-architecting your relational applications and transforming your relational data to optimize concurrency, security, denormalization, and performance in their NoSQL targets.

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 cer

tain 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.

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