



Professional Hadoop Solutions

By Boris Lublinsky, Kevin T. Smith, Alexey Yakubovich

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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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Professional Hadoop Solutions By Boris Lublinsky, Kevin T. Smith, Alexey Yakubovich Bibliography

- Sales Rank: #646310 in Books
- Brand: Brand: Wrox
- Published on: 2013-09-23
- Original language: English
- Number of items: 1
- Dimensions: 9.30" h x .95" w x 7.40" l, 1.87 pounds
- Binding: Paperback
- 504 pages

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Editorial Review

From the Back Cover

Implement Hadoop Solutions throughout the enterprise

If you're ready to make the most out of massively scalable analytics, you need to know how to take advantage of Hadoop technologies. With this guide, you'll learn how! It focuses on the architecture and approaches for building advanced, Hadoop-based enterprise applications, taking a deeper, code-level dive into delivering real-world solutions. It also walks you through the data design and how it impacts implementation. It explains how MapReduce works, and shows you how to reformulate specific business problems in MapReduce. Throughout the pages, you'll find in-depth Java code examples that you can use, derived from applications that have been successfully built and deployed.

Professional Hadoop Solutions:

- Explores the MapReduce architecture, its main components, and the MapReduce programming model
- Discusses how to create reliable MapReduce applications, including testing and debugging, as well as how to use built-in MapReduce facilities
- Explains how to extend Oozie and use it to integrate Hadoop-based implementations with other enterprise applications
- Describes how to build real-time Hadoop-based applications and how to leverage real-time Hadoop queries
- Shows how to extend Hadoop's security capabilities, including encryption, authentication, authorization, Single-Sign-On (SSO), and auditing
- Covers different approaches to running Hadoop in the Amazon Web Services (AWS) cloud

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About the Author

Boris Lublinsky is principal architect at Nokia and an author of more than 70 publications, including *Applied SOA: Service-Oriented Architecture and Design Strategies*.

Kevin T. Smith is Director of Technology Solutions for the AMS division of Novetta Solutions, where he builds highly secure, data-oriented solutions for customers.

Alexey Yakubovich is a system architect at Hortonworks and a member of the Object Management Group SIG on SOA governance and model-driven architecture.

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