

Practical Hadoop Security

By Bhushan Lakhe

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Practical Hadoop Security By Bhushan Lakhe

Practical Hadoop Security is an excellent resource for administrators planning a production Hadoop deployment who want to secure their Hadoop clusters. A detailed guide to the security options and configuration within Hadoop itself, author **Bhushan Lakhe** takes you through a comprehensive study of how to implement defined security within a Hadoop cluster in a hands-on way.

You will start with a detailed overview of all the security options available for Hadoop, including popular extensions like Kerberos and OpenSSH, and then delve into a hands-on implementation of user security (with illustrated code samples) with both in-the-box features and with security extensions implemented by leading vendors.

No security system is complete without a monitoring and tracing facility, so *Practical Hadoop Security* next steps you through audit logging and monitoring technologies for Hadoop, as well as ready to use implementation and configuration examples--again with illustrated code samples.

The book concludes with the most important aspect of Hadoop security – encryption. Both types of encryptions, for data in transit and data at rest, are discussed at length with leading open source projects that integrate directly with Hadoop at no licensing cost.

Practical Hadoop Security:

- Explains importance of security, auditing and encryption within a Hadoop installation
- Describes how the leading players have incorporated these features within their Hadoop distributions and provided extensions
- Demonstrates how to set up and use these features to your benefit and make your Hadoop installation secure without impacting performance or ease of use

What you'll learn

- Understand your options for implementing Hadoop user security
- Learn how to configure and set up security for your Hadoop cluster
- Set up Hadoop audit logs, Hadoop metrics, monitoring technologies and related products
- Configure and set up logging, metrics and monitoring for your Hadoop cluster
- Discover and implement encryption for data in transit and data at rest
- and much more.

Who this book is for

Practical Hadoop Security is an excellent resource for Hadoop administrators who want to secure their environment. IT management planning a production Hadoop environment will also find this text useful. This book is also for students who wish to learn about Hadoop security.

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Editorial Review

About the Author
Bhushan Lakhe is Senior Vice President of Information and Data Architecture at Ipsos, a global market research company headquartered in Paris. He has more than 25 years experience in software development life cycle management, enterprise architecture design and framework implementation, service management, data warehousing, and Hadoop ecosystem (HDFS, HBase, Hive, Pig, SQOOP, MongoDB) implementation, having worked successively at Tata Consultancy Services, Fujitsu-ICIM, ICL, IBM, Unisys Corporation, and as a database architecture consultant to such clients as Leo Burnett, ABN AMRO Bank, Abbott Laboratories, Motorola, JPMorgan Chase, and British Petroleum. He received IBM’s 2012 Gerstner Award for his implementation of major big data and data warehouse projects. Lakhe is a Cloudera Certified Administrator for Apache Hadoop CDH4 and a Microsoft Certified Technology Specialist, SQL Server Implementation and Maintenance. He is the author of Practical Hadoop Security. He is active in the Chicago Hadoop community and as a speaker at technical meetups and industry conferences. Lakhe graduated from the Birla Institute of Technology and Science, Pilani.

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