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# Practical Hadoop Security

*MAKE SURE YOUR BIG DATA  
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Bhushan Lakhe

Apress®

# Practical Hadoop Security

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Garcia-Alfaro**



## **Practical Hadoop Security:**

*Practical Hadoop Security* Bhushan Lakhe, 2014-12-12 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 the 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.

Hadoop Security Ben Spivey, Joey Echeverria, 2015-06-29 As more corporations turn to Hadoop to store and process their most valuable data, the risk of a potential breach of those systems increases exponentially. This practical book not only shows Hadoop administrators and security architects how to protect Hadoop data from unauthorized access, it also shows how to limit the ability of an attacker to corrupt or modify data in the event of a security breach. Authors Ben Spivey and Joey Echeverria provide in-depth information about the security features available in Hadoop and organize them according to common computer security concepts. You'll also get real-world examples that demonstrate how you can apply these concepts to your use cases. Understand the challenges of securing distributed systems, particularly Hadoop. Use best practices for preparing Hadoop cluster hardware as securely as possible. Get an overview of the Kerberos network authentication protocol. Delve into authorization and accounting principles as they apply to Hadoop. Learn how to use mechanisms to protect data in a Hadoop cluster, both in transit and at rest. Integrate Hadoop data ingest into enterprise-wide security architecture. Ensure that security architecture reaches all the way to end-user access.

Practical Hadoop Migration Bhushan Lakhe, 2016-08-10 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. This book covers the best practice design approaches to re-architecting your relational applications and transforming your relational data to optimize concurrency, security, denormalization, and performance. 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 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 certain 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 What You ll Learn Decide whether you should migrate your relational applications to big data technologies or integrate them Transition your relational applications to Hadoop NoSQL platforms in terms of logical design and physical implementation Discover RDBMS to HDFS integration data transformation and optimization techniques Consider when to use Lambda architecture and data lake solutions Select and implement Hadoop based components and applications to speed transition optimize integrated performance and emulate relational functionalities Who This Book Is For Database developers database administrators enterprise architects Hadoop NoSQL developers and IT leaders Its secondary readership is project and program managers and advanced students of database and management information systems

*Practical Enterprise Data Lake Insights* Saurabh Gupta,Venkata Giri,2018-06-27 Use this practical guide to successfully handle the challenges encountered when designing an enterprise data lake and learn industry best practices to resolve issues When designing an enterprise data lake you often hit a roadblock when you must leave the comfort of the relational world and learn the nuances of handling non relational data Starting from sourcing data into the Hadoop ecosystem you will go through stages that can bring up tough questions such as data processing data querying and security Concepts such as change data capture and data streaming are covered The book takes an end to end solution approach in a data lake environment that includes data security high availability data processing data streaming and more Each chapter includes application of a concept code snippets and use case demonstrations to provide you with a practical approach You will learn the concept scope application and starting point What You ll Learn Get to know data lake architecture and design principles Implement data capture and streaming strategies Implement data processing strategies in Hadoop Understand the data lake security framework and availability model Who This Book Is For Big data architects and solution architects

[Hadoop in Practice](#) Alex Holmes,2014-09-29 Summary Hadoop in Practice Second Edition provides over 100 tested instantly useful techniques that will help you conquer big data using Hadoop This revised new edition covers changes and new features in the Hadoop core architecture including MapReduce 2 Brand new chapters cover YARN and integrating Kafka Impala and Spark SQL with

Hadoop You'll also get new and updated techniques for Flume Sqoop and Mahout all of which have seen major new versions recently In short this is the most practical up to date coverage of Hadoop available anywhere Purchase of the print book includes a free eBook in PDF Kindle and ePub formats from Manning Publications About the Book It's always a good time to upgrade your Hadoop skills Hadoop in Practice Second Edition provides a collection of 104 tested instantly useful techniques for analyzing real time streams moving data securely machine learning managing large scale clusters and taming big data using Hadoop This completely revised edition covers changes and new features in Hadoop core including MapReduce 2 and YARN You'll pick up hands on best practices for integrating Spark Kafka and Impala with Hadoop and get new and updated techniques for the latest versions of Flume Sqoop and Mahout In short this is the most practical up to date coverage of Hadoop available Readers need to know a programming language like Java and have basic familiarity with Hadoop What's Inside Thoroughly updated for Hadoop 2 How to write YARN applications Integrate real time technologies like Storm Impala and Spark Predictive analytics using Mahout and RR Readers need to know a programming language like Java and have basic familiarity with Hadoop About the Author Alex Holmes works on tough big data problems He is a software engineer author speaker and blogger specializing in large scale Hadoop projects Table of Contents PART 1 BACKGROUND AND FUNDAMENTALS Hadoop in a heartbeat Introduction to YARN PART 2 DATA LOGISTICS Data serialization working with text and beyond Organizing and optimizing data in HDFS Moving data into and out of Hadoop PART 3 BIG DATA PATTERNS Applying MapReduce patterns to big data Utilizing data structures and algorithms at scale Tuning debugging and testing PART 4 BEYOND MAPREDUCE SQL on Hadoop Writing a YARN application     Securing Hadoop Sudheesh Narayanan,2013-11-22 This book is a step by step tutorial filled with practical examples which will focus mainly on the key security tools and implementation techniques of Hadoop security This book is great for Hadoop practitioners solution architects Hadoop administrators developers and Hadoop project managers who are looking to get a good grounding in what Kerberos is all about and who wish to learn how to implement end to end Hadoop security within an enterprise setup It's assumed that you will have some basic understanding of Hadoop as well as be familiar with some basic security concepts

*Information Security Practice and Experience* Feng Bao,Liqun Chen,Robert H. Deng,Guojun Wang,2016-11-02 This book constitutes the proceedings of the 12th International Conference on Information Security and Practice and Experience ISPEC 2016 held in Zhangjiajie China in November 2016 The 25 papers presented in this volume were carefully reviewed and selected from 75 submissions They cover multiple topics in information security from technologies to systems and applications     **Algorithms and Architectures for Parallel Processing** Jesus Carretero,Javier Garcia-Blas,Victor Gergel,Vladimir Voevodin,Iosif Meyerov,Juan A. Rico-Gallego,Juan C. Díaz-Martín,Pedro Alonso,Juan Durillo,José Daniel Garcia Sánchez,Alexey L. Lastovetsky,Fabrizio Marozzo,Qin Liu,Zakirul Alam Bhuiyan,Karl Förlinger,Josef Weidendorfer,José Gracia,2016-11-30 This book constitutes the refereed workshop proceedings of the 16th International Conference on

Algorithms and Architectures for Parallel Processing ICA3PP 2016 held in Granada Spain in December 2016 The 30 full papers presented were carefully reviewed and selected from 58 submissions They cover many dimensions of parallel algorithms and architectures encompassing fundamental theoretical approaches practical experimental projects and commercial components and systems trying to push beyond the limits of existing technologies including experimental efforts innovative systems and investigations that identify weaknesses in existing parallel processing technology

**Proceedings of International Conference on Data Science and Applications** Mukesh Saraswat, Sarbani Roy, Chandreyee Chowdhury, Amir H. Gandomi, 2021-11-22 This book gathers outstanding papers presented at the International Conference on Data Science and Applications ICDSA 2021 organized by Soft Computing Research Society SCRS and Jadavpur University Kolkata India from April 10 to 11 2021 It covers theoretical and empirical developments in various areas of big data analytics big data technologies decision tree learning wireless communication wireless sensor networking bioinformatics and systems artificial neural networks deep learning genetic algorithms data mining fuzzy logic optimization algorithms image processing computational intelligence in civil engineering and creative computing

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*International Conference on Security and Privacy in Communication Networks* Jing Tian, Ji Wu Jing, Mudhakar Srivatsa, 2015-11-21 This 2 volume set constitutes the thoroughly refereed post conference proceedings of the 10th International Conference on Security and Privacy in Communication Networks SecureComm 2014 held in Beijing China in September 2014 The 27 regular and 17 short papers presented were carefully reviewed It also presents 22 papers accepted for four workshops ATCS SSS SLSS DAPRO in conjunction with the conference 6 doctoral symposium papers and 8 poster papers The papers are grouped in the following topics security and privacy in wired wireless mobile hybrid sensor ad hoc networks network intrusion detection and prevention firewalls packet filters malware and distributed denial of service communication privacy and anonymity network and internet forensics techniques public key infrastructures key management credential management secure routing naming addressing network management security and privacy in pervasive and ubiquitous computing security security security isolation in software defined networking

*Information Science and Applications (ICISA) 2016* Kuinam J. Kim, Nikolai Joukov, 2016-02-15 This book contains selected papers from the 7th International Conference on Information Science and Applications ICISA 2016 and provides a snapshot of the latest issues encountered in technical convergence and convergences of security technology It explores how information science is core to most current research industrial and commercial activities and consists of contributions covering topics including Ubiquitous Computing Networks and Information Systems Multimedia and Visualization Middleware and Operating Systems Security and Privacy Data Mining and Artificial Intelligence Software Engineering and Web Technology The contributions describe the most recent developments in information technology and ideas applications and problems related to technology convergence illustrated through case studies and reviews converging existing security techniques Through this volume readers will gain an understanding of the current state of the art information strategies and technologies of convergence security The intended readers are researchers in academia industry and other research institutes focusing on information science and technology

*PrestoDB in Practice* Richard

Johnson,2025-06-21 PrestoDB in Practice PrestoDB in Practice is the definitive guide for architects engineers and data professionals seeking a comprehensive understanding of PrestoDB the industry leading distributed SQL query engine This book offers an in depth exploration of PrestoDB s internal architecture including distributed query processing metadata management and extensible connector subsystems Through detailed chapters on deployment patterns resource allocation security and high availability strategies readers gain practical insights into building and managing scalable resilient PrestoDB clusters across bare metal cloud and containerized environments Delving into advanced topics PrestoDB in Practice demystifies the engine s sophisticated query planning and optimization processes such as cost based optimization predicate pushdown and adaptive join strategies Real world guidance is provided for extending PrestoDB through custom connectors user defined functions and plugins making it an invaluable resource for organizations integrating diverse data sources including data lakehouses like Hive Iceberg and Hudi as well as JDBC and NoSQL platforms Special emphasis is placed on performance engineering memory management and scaling frameworks to support modern high concurrency analytics workloads The book also addresses the critical facets of security governance and observability equipping teams to implement fine grained access controls audit logging encryption and regulatory compliance A final section highlights real world deployment patterns BI use cases and future trends ensuring readers are poised not only to master current PrestoDB capabilities but to innovate as part of its vibrant open source ecosystem Whether optimizing large scale analytics or architecting the next generation of federated data platforms PrestoDB in Practice is an essential reference for leveraging PrestoDB s full potential

**Cloudera Data Engineer Certification Practice 220 Questions & Answer** QuickTechie | A career growth machine, This book serves as a comprehensive preparation guide for the Cloudera Data Platform Data Engineer certification exam Drawing from the detailed exam description referenced from QuickTechie com it is specifically designed to equip data engineering professionals with the knowledge and skills necessary to successfully pass this rigorous certification The target audience for this exam and therefore this book is a Data Engineer professional who possesses proficiency in designing developing and optimizing data workflows utilizing Cloudera tools This includes a strong understanding of data modeling principles for efficient storage encompassing various data formats effective partitioning strategies and robust schema design with a specific focus on Apache Iceberg The book addresses the critical need for expertise in performance optimization covering techniques for identifying bottlenecks tuning queries for maximum efficiency and managing resource utilization effectively Furthermore it covers essential skills in security configuration monitoring cluster health troubleshooting issues and integrating Cloudera clusters with cloud environments primarily leveraging Apache Spark and Apache Airflow Based on the exam structure outlined by QuickTechie com the book covers the following key skill and knowledge areas weighted according to their importance in the exam Spark 48% of exam This section delves into the fundamentals of running Spark over Kubernetes working effectively with DataFrames understanding the principles of

distributed processing implementing integration between Hive and Spark and comprehending distributed persistence mechanisms Airflow 10% of exam Coverage includes implementing incremental data extraction from source systems using Apache Airflow utilizing Airflow for scheduling complex ETL pipelines scheduling data quality checks and working proficiently with Directed Acyclic Graphs DAGs Performance Tuning 22% of exam This critical area focuses on knowing basic tools for Spark performance tuning understanding optimization frameworks and interpreting explain plans inferring schemas correctly improving join performance leveraging data caching for reuse and working with partitioned and bucketed tables for enhanced performance Deployment 10% of exam The book covers using the API and CLI for deployment tasks and working within the Data Engineering Service environment Iceberg 10% of exam A dedicated section is included to ensure a thorough understanding of Apache Iceberg its concepts and its application within the Cloudera Data Platform context The book also provides essential details about the exam format itself as referenced from QuickTechie com The exam consists of 50 questions and has a duration of 90 minutes A pass score of 55% is required The exam is delivered online and is proctored Candidates should review the system requirements for online proctored testing through QuestionMark It is crucial to note that as specified in the exam details no resources are allowed during the exam candidates may not use reference materials white papers user guides or any other resources This book is designed to ensure candidates are fully prepared without relying on external materials during the test

**Practical Hive** Scott Shaw, Andreas François Vermeulen, Ankur Gupta, David Kjerrumgaard, 2016-08-27 Dive into the world of SQL on Hadoop and get the most out of your Hive data warehouses This book is your go to resource for using Hive authors Scott Shaw Ankur Gupta David Kjerrumgaard and Andreas Francois Vermeulen take you through learning HiveQL the SQL like language specific to Hive to analyze export and massage the data stored across your Hadoop environment From deploying Hive on your hardware or virtual machine and setting up its initial configuration to learning how Hive interacts with Hadoop MapReduce Tez and other big data technologies Practical Hive gives you a detailed treatment of the software In addition this book discusses the value of open source software Hive performance tuning and how to leverage semi structured and unstructured data What You Will Learn Install and configure Hive for new and existing datasets Perform DDL operations Execute efficient DML operations Use tables partitions buckets and user defined functions Discover performance tuning tips and Hive best practices Who This Book Is For Developers companies and professionals who deal with large amounts of data and could use software that can efficiently manage large volumes of input It is assumed that readers have the ability to work with SQL

**Foundations and Practice of Security** Nur Zincir-Heywood, Guillaume Bonfante, Mourad Debbabi, Joaquin Garcia-Alfaro, 2019-05-02 This book constitutes the revised selected papers of the 11th International Symposium on Foundations and Practice of Security FPS 2018 held in Montreal QC Canada in March 2018 The 16 full papers 1 short paper 1 position paper and 2 invited papers presented in this book were carefully reviewed and selected from 51 submissions They cover a range of topics including mobile security cloud security

and big data IoT security software security malware analysis and vulnerability detection cryptography cyber physical security and hardware security and access control      **Large-Scale Data Streaming, Processing, and Blockchain Security** Saini, Hemraj,Rathee, Geetanjali,Saini, Dinesh Kumar,2020-08-14 Data has cemented itself as a building block of daily life However surrounding oneself with great quantities of information heightens risks to one s personal privacy Additionally the presence of massive amounts of information prompts researchers into how best to handle and disseminate it Research is necessary to understand how to cope with the current technological requirements Large Scale Data Streaming Processing and Blockchain Security is a collection of innovative research that explores the latest methodologies modeling and simulations for coping with the generation and management of large scale data in both scientific and individual applications Featuring coverage on a wide range of topics including security models internet of things and collaborative filtering this book is ideally designed for entrepreneurs security analysts IT consultants security professionals programmers computer technicians data scientists technology developers engineers researchers academicians and students      CCA175: Cloudera Hadoop and Spark Developer Exam Hands-on Practice Book and Preparation HadoopExam Learning Resources,2016-08-06 CCA175 CCP DE575

Multidisciplinary Research and Practice for Informations Systems Gerald Quirchmayer,Josef Basl,Ilsun You,Lida Xu,Edgar Weippl,2012-08-14 This book constitutes the refereed proceedings of the IFIP WG 8 4 8 9 TC 5 International Cross Domain Conference and Workshop on Availability Reliability and Security CD ARES 2012 held in Prague Czech Republic in August 2012 The 50 revised papers presented were carefully reviewed and selected for inclusion in the volume The papers concentrate on the many aspects of information systems bridging the gap between research results in computer science and the many application fields They are organized in the following topical sections cross domain applications aspects of modeling and validation trust security privacy and safety mobile applications data processing and management retrieval and complex query processing e commerce and papers from the colocated International Workshop on Security and Cognitive Informatics for Homeland Defense SeCIHD 2012      **Information and Communications Security** Kwok-Yan Lam,Chi-Hung Chi,Sihan Qing,2016-11-23 This book constitutes the refereed proceedings of the 18th International Conference on Information and Communications Security ICISC 2016 held in Singapore Singapore in November December 2016 The 20 revised full papers and 16 short papers presented were carefully selected from 60 submissions The papers cover topics such as IoT security cloud security applied cryptography attack behaviour analytics authentication and authorization engineering issues of cryptographic and security systems privacy protection risk evaluation and security key management and language based security and network security

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