

# DgSECURE FOR HADOOP



## ENTERPRISE HADOOP FRAMEWORK

### DATA ON INGEST



**DgSECURE**  
In Flight  
Discovery  
Encryption  
Masking



### DATA IN USE

BATCH  
PROCESSING  
MapReduce

PROCESSING  
FRAMEWORK  
Spark  
Storm

ANALYTICS  
Hive Pig  
SQL

BI AND  
REPORTING  
TOOLS

APPS  
R Scala  
Python Java



**DgSECURE DYNAMIC DECRYPTION**

WORKLOAD/RESOURCE MANAGEMENT (YARN)

### DATA AT REST

#### DATA STORAGE (HDFS)

SSN	312-42-3124	➡	SSN	675-64-3457
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SKU	892749		SKU	892749



**DgSECURE DATA-CENTRIC PROTECTION**  
Discovery - Encryption - Masking

### AUTHORIZATION



APACHE  
SENTRY



LOAD/AD



APACHE  
RANGER

### DATA MONITORING



**DgSECURE**  
REAL TIME MONITORING



**DgSECURE**  
ENTITLEMENT REPORTING



# Hadoop Security

**Mukesh Saraswat, Sarbani  
Roy, Chandreyee Chowdhury, Amir H.  
Gandomi**

## **Hadoop Security:**

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      **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      *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 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 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 Operations** Eric Sammer,2012-10-09 For system administrators tasked with the job of maintaining large and complex Hadoop clusters this book explains the particulars of Hadoop operations from planning installing and configuring the system to providing ongoing maintenance

**Hadoop Security** Ben Spivey,Joey Echeverria,2015

**Learning Hunk** Dmitry Anoshin,Sergey Sheypak,2015-12-31 Visualize and analyze your Hadoop data using Hunk About This Book Explore your data in Hadoop and NoSQL data stores Create and optimize your reporting experience with advanced data visualizations and data analytics A comprehensive developer s guide that helps you create outstanding analytical solutions efficiently Who This Book Is For If you are Hadoop developers who want to build efficient real time Operation Intelligence Solutions based on Hadoop deployments or various NoSQL data stores using Hunk this book is for you Some familiarity with Splunk is assumed What You Will Learn Deploy and configure Hunk on top of Cloudera Hadoop Create and configure Virtual Indexes for datasets Make your data presentable using the wide variety of data visualization components and knowledge objects Design a data model using Hunk best practices Add more flexibility to your analytics solution via extended SDK and custom visualizations Discover data using MongoDB as a data source Integrate Hunk with AWS Elastic MapReduce to improve scalability In Detail Hunk is the big data analytics platform that lets you rapidly explore analyse and visualize data in Hadoop and NoSQL data stores It provides a single fluid user experience designed to show you insights from your big data without the need for specialized skills fixed schemas or months of development Hunk goes beyond typical data analysis methods and gives you the power to rapidly detect patterns and find anomalies across petabytes of raw data This book focuses on exploring analysing and visualizing big data in Hadoop and NoSQL data stores with this powerful full featured big data analytics platform You will begin by learning the Hunk architecture and Hunk Virtual Index before moving on to how to easily analyze and visualize data using Splunk Search

Language SPL Next you will meet Hunk Apps which can easy integrate with NoSQL data stores such as MongoDB or Sqrrl You will also discover Hunk knowledge objects build a semantic layer on top of Hadoop and explore data using the friendly user interface of Hunk Pivot You will connect MongoDB and explore data in the data store Finally you will go through report acceleration techniques and analyze data in the AWS Cloud Style and approach A step by step guide starting right from the basics and deep diving into the more advanced and technical aspects of Hunk *Data and Applications Security and Privacy XXXI* Giovanni Livraga,Sencun Zhu,2017-06-19 This book constitutes the refereed proceedings of the 31st Annual IFIP WG 11 3 International Working Conference on Data and Applications Security and Privacy DBSec 2017 held in Philadelphia PA USA in July 2017 The 21 full papers and 9 short papers presented were carefully reviewed and selected from 59 submissions The papers are organized in topical sections on access control privacy cloud security secure storage in the cloud secure systems and security in networks and Web **International Conference on Security and Privacy in Communication Networks**

Jing Tian,Jiwu 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

*Ubiquitous Intelligent Systems* P. Karuppusamy,Isidoros Perikos,Fausto Pedro García Márquez,2021-10-08 This book features a collection of high quality peer reviewed papers presented at International Conference on Ubiquitous Intelligent Systems ICUIS 2021 organized by Shree Venkateshwara Hi Tech Engineering College Tamil Nadu India during April 16 17 2021 The book covers topics such as cloud computing mobile computing and networks embedded computing frameworks modeling and analysis of ubiquitous information systems communication networking models big data models and applications ubiquitous information processing systems next generation ubiquitous networks and protocols advanced intelligent systems Internet of things wireless communication and storage networks intelligent information retrieval techniques AI based intelligent information visualization techniques cognitive informatics smart automation systems healthcare informatics and bioinformatics models security and privacy of intelligent information systems and smart distributed information systems

Network and System Security Javier Lopez,Xinyi Huang,Ravi Sandhu,2013-05-27 This book constitutes the proceedings of the 7th International Conference on Network and System Security NSS 2013 held in Madrid Spain in June 2013 The 41 full

papers presented were carefully reviewed and selected from 176 submissions The volume also includes 7 short papers and 13 industrial track papers The paper are organized in topical sections on network security including modeling and evaluation security protocols and practice network attacks and defense and system security including malware and intrusions applications security security algorithms and systems cryptographic algorithms privacy key agreement and distribution

**Information Systems Security and Privacy** Olivier Camp, Steven Furnell, Paolo Mori, 2017-02-16 This book constitutes the revised selected papers of the Second International Conference on Information Systems Security and Privacy ICISPP 2016 held in Rome Italy in February 2016 The 9 full papers presented together with two invited papers were carefully reviewed and selected from a total of 91 submissions They are dealing with topics such as data and software security privacy and confidentiality mobile systems security biometric authentication privacy in social media *IBM Spectrum Scale Security* Felipe Knop, Sandeep R. Patil, Alifiya Kantawala, Larry Coyne, IBM Redbooks, 2018-09-18 Storage systems must provide reliable and convenient data access to all authorized users while simultaneously preventing threats coming from outside or even inside the enterprise Security threats come in many forms from unauthorized access to data data tampering denial of service and obtaining privileged access to systems According to the Storage Network Industry Association SNIA data security in the context of storage systems is responsible for safeguarding the data against theft prevention of unauthorized disclosure of data prevention of data tampering and accidental corruption This process ensures accountability authenticity business continuity and regulatory compliance Security for storage systems can be classified as follows Data storage data at rest which includes data durability and immutability Access to data Movement of data data in flight Management of data IBM Spectrum Scale is a software defined storage system for high performance large scale workloads on premises or in the cloud IBM Spectrum™ Scale addresses all four aspects of security by securing data at rest protecting data at rest with snapshots and backups and immutability features and securing data in flight providing secure management of data and secure access to data by using authentication and authorization across multiple supported access protocols These protocols include POSIX NFS SMB Hadoop and Object REST For automated data management it is equipped with powerful information lifecycle management ILM tools that can help administer unstructured data by providing the correct security for the correct data This IBM Redpaper™ publication details the various aspects of security in IBM Spectrum Scale™ including the following items Security of data in transit Security of data at rest Authentication Authorization Hadoop security Immutability Secure administration Audit logging Security for transparent cloud tiering TCT Security for OpenStack drivers Unless stated otherwise the functions that are mentioned in this paper are available in IBM Spectrum Scale V4.2.1 or later releases **Handbook of Data Intensive Computing** Borko Furht, Armando Escalante, 2011-12-10 Data Intensive Computing refers to capturing managing analyzing and understanding data at volumes and rates that push the frontiers of current technologies The challenge of data intensive computing is to provide the hardware architectures and related

software systems and techniques which are capable of transforming ultra large data into valuable knowledge Handbook of Data Intensive Computing is written by leading international experts in the field Experts from academia research laboratories and private industry address both theory and application Data intensive computing demands a fundamentally different set of principles than mainstream computing Data intensive applications typically are well suited for large scale parallelism over the data and also require an extremely high degree of fault tolerance reliability and availability Real world examples are provided throughout the book Handbook of Data Intensive Computing is designed as a reference for practitioners and researchers including programmers computer and system infrastructure designers and developers This book can also be beneficial for business managers entrepreneurs and investors *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 **Programming Hive** Edward Capriolo, Dean Wampler, Jason Rutherglen, 2012-09-26 Need to move a relational database application to Hadoop This comprehensive guide introduces you to Apache Hive Hadoop's data warehouse infrastructure You'll quickly learn how to use Hive's SQL dialect HiveQL to summarize query and analyze large datasets stored in Hadoop's distributed filesystem This example driven guide shows you how to set up and configure Hive in your environment provides a detailed overview of Hadoop and MapReduce and demonstrates how Hive works within the Hadoop ecosystem You'll also find real world case studies that describe how companies have used Hive to solve unique problems involving petabytes of data Use Hive to create alter and drop databases tables views functions and indexes Customize data formats and storage options from files to external databases Load and extract data from tables and use queries grouping filtering joining and other conventional query methods Gain best practices for creating user defined functions UDFs Learn Hive patterns you should use and anti patterns you should avoid Integrate Hive with other data processing programs Use storage handlers for NoSQL databases and other data stores Learn the pros and cons of running Hive on Amazon's Elastic MapReduce **Data Management, Analytics and Innovation** Valentina Emilia Balas, Neha Sharma, Amlan Chakrabarti, 2018-09-07 The volume on Data Management Analytics and Innovations presents the latest high quality technical contributions and research results in the areas of data management and smart computing big data management artificial intelligence and data analytics along with advances in network technologies It deals with the state of the art topics and provides challenges and solutions for future development Original unpublished

research work highlighting specific research domains from all viewpoints are contributed from scientists throughout the globe This volume is mainly designed for professional audience composed of researchers and practitioners in academia and industry

**Emerging Research in Computing, Information, Communication and Applications** N. R. Shetty,L. M. Patnaik,N. H. Prasad,N. Nalini,2017-11-15 This book presents the proceedings of International Conference on Emerging Research in Computing Information Communication and Applications ERCICA 2016 ERCICA provides an interdisciplinary forum for researchers professional engineers and scientists educators and technologists to discuss debate and promote research and technology in the upcoming areas of computing information communication and their applications The book discusses these emerging research areas providing a valuable resource for researchers and practicing engineers alike

*Computer Communication, Networking and Internet Security* Suresh Chandra Satapathy,Vikrant Bhateja,K. Srujan Raju,B. Janakiramaiah,2017-05-02 The book is a compilation of high quality scientific papers presented at the 3rd International Conference on Computer Communication Technologies IC3T 2016 The individual papers address cutting edge technologies and applications of soft computing artificial intelligence and communication In addition a variety of further topics are discussed which include data mining machine intelligence fuzzy computing sensor networks signal and image processing human computer interaction web intelligence etc As such it offers readers a valuable and unique resource

Networking, Intelligent Systems and Security Mohamed Ben Ahmed,Horia-Nicolai L. Teodorescu,Tomader Mazri,Parthasarathy Subashini,Anouar Abdelhakim Boudhir,2021-10-01 This book gathers best selected research papers presented at the International Conference on Networking Intelligent Systems and Security held in Kenitra Morocco during 01 02 April 2021 The book highlights latest research and findings in the field of ICT and it provides new solutions efficient tools and techniques that draw on modern technologies to increase urban services In addition it provides a critical overview of the status quo shares new propositions and outlines future perspectives in networks smart systems security information technologies and computer science



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