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INTELLIGENCE WITH SOFTWARE TOOLS. BIG DATA - T é cnicas, herramientas y aplicaciones

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En la era de grandes conjuntos de datos, procedentes de diversos or í genes, en formatos variados y con una necesidad de procesamiento y an á lisis r á pido y efectivo, las t é cnicas de Big Data persiguen complementar el manejo ordenado de estos vol ú menes, con las t é cnicas de an á lisis de la informaci ó n m á s avanzadas y efectivas para extraer de modo ó ptimo el conocimiento contenido en los datos. Las herramientas de Big Data se basan en el paquete de c ó digo abierto llamado Hadoop para el an á lisis masivo de datos, que forma parte de pr á cticamente todo el software de Big Data. Por ejemplo, SAS incorpora Hadoop en sus aplicaciones (SAS Base, SAS Data Integration, SAS Visual Analytics, SAS Visual Statistics, etc.). IBM trabaja con Hadoop en su plataforma IBM InfoSphere BigInsights. Microsoft incluye Hadoop en su plataforma Windows Azure, SQL Server 2014, HDInsight y Polybase. Oracle incluye Hadoop en Oracle Big Data Appliance, Oracle Big Data Connectors y Oracle Loader for Hadoop. Se describen y analizan estas herramientas de Big Data que implementan SAS, IBM, Microsoft y Oracle, para extraer el conocimiento contenido en los datos. Ventajas: · Los principales comandos Conozca: · Las herramientas de BIG DATA, que utilizan tecnolog í as multin ú cleo para ofrecer mayor capacidad de procesamiento a trav é s de altas prestaciones, en base de datos y de an á lisis en memoria que ofrecen un mayor conocimiento m á s r á pidamente de

grandes vol ú menes de datos y flujo de datos, independientemente de los formatos y las fuentes de los or í genes de datos. Aprenda: · Que con las herramientas de BIG DATA se puede procesar informaci ó n online proveniente de m ú ltiples or í genes (redes sociales o grandes bases de datos no estructuradas), · A tratar los datos de m ú ltiples fuentes y formatos, ya sean texto, datos, im á genes o mezcla de todo ello. Actualmente es posible. Desarrolle sus habilidades para: · Implementar herramientas de BIG DATA en la forma que mejor se adapte a las necesidades de los usuarios. · Superar con é xito el desaf í o del an á lisis de la informaci ó n, dada la capacidad de almacenar cualquier cosa, lo que est á n generando datos como nunca antes en la historia Data has become a factor of production, like labor and steel, and is driving a new data-centered economy. The Data rEvolution is about data volume, variety, velocity and value. It is about new ways to organize and manage data for rapid processing using tools like Hadoop and MapReduce. It is about the explosion of new tools for "connecting the dots" and increasing knowledge, including link analysis, temporal analysis and predictive analytics. It is about a vision of "analytics for everyone" that puts sophisticated statistics into the hands of all. And, it is about using visual analytics to parse the data and literally see new relationships and insights on the fly. As the data and tools become democratized, we will see a new world of experimentation and creative problem-solving, where data comes from both inside and outside the organization. Your own data is not

enough. This report is a must-read for IT and business leaders who want to maximize the value of data for their organization. Ready to unlock the power of your data? With this comprehensive guide, you'll learn how to build and maintain reliable, scalable, distributed systems with Apache Hadoop. This book is ideal for programmers looking to analyze datasets of any size, and for administrators who want to set up and run Hadoop clusters. You'll find illuminating case studies that demonstrate how Hadoop is used to solve specific problems. This third edition covers recent changes to Hadoop, including material on the new MapReduce API, as well as MapReduce 2 and its more flexible execution model (YARN). Store large datasets with the Hadoop Distributed File System (HDFS) Run distributed computations with MapReduce Use Hadoop's data and I/O building blocks for compression, data integrity, serialization (including Avro), and persistence Discover common pitfalls and advanced features for writing real-world MapReduce programs Design, build, and administer a dedicated Hadoop cluster—or run Hadoop in the cloud Load data from relational databases into HDFS, using Sqoop Perform large-scale data processing with the Pig query language Analyze datasets with Hive, Hadoop's data warehousing system Take advantage of HBase for structured and semi-structured data, and ZooKeeper for building distributed systems Integrating data from multiple sources is essential in the age of big data, but it can be a challenging and time-consuming task. This handy cookbook provides dozens of ready-to-use recipes for using Apache Sqoop, the

command-line interface application that optimizes data transfers between relational databases and Hadoop. Sqoop is both powerful and bewildering, but with this cookbook's problem-solution-discussion format, you'll quickly learn how to deploy and then apply Sqoop in your environment. The authors provide MySQL, Oracle, and PostgreSQL database examples on GitHub that you can easily adapt for SQL Server, Netezza, Teradata, or other relational systems. Transfer data from a single database table into your Hadoop ecosystem Keep table data and Hadoop in sync by importing data incrementally Import data from more than one database table Customize transferred data by calling various database functions Export generated, processed, or backed-up data from Hadoop to your database Run Sqoop within Oozie, Hadoop's specialized workflow scheduler Load data into Hadoop's data warehouse (Hive) or database (HBase) Handle installation, connection, and syntax issues common to specific database vendors Let Hadoop For Dummies help harness the power of your data and rein in the information overload Big data has become big business, and companies and organizations of all sizes are struggling to find ways to retrieve valuable information from their massive data sets with becoming overwhelmed. Enter Hadoop and this easy-to-understand For Dummies guide. Hadoop For Dummies helps readers understand the value of big data, make a business case for using Hadoop, navigate the Hadoop ecosystem, and build and manage Hadoop applications and clusters. Explains the origins of Hadoop, its economic benefits, and its functionality and

practical applications Helps you find your way around the Hadoop ecosystem, program MapReduce, utilize design patterns, and get your Hadoop cluster up and running quickly and easily Details how to use Hadoop applications for data mining, web analytics and personalization, large-scale text processing, data science, and problem-solving Shows you how to improve the value of your Hadoop cluster, maximize your investment in Hadoop, and avoid common pitfalls when building your Hadoop cluster From programmers challenged with building and maintaining affordable, scaleable data systems to administrators who must deal with huge volumes of information effectively and efficiently, this how-to has something to help you with Hadoop. The book begins by looking at massive computing tools in Big Data ecosystems with a focus on Hadoop, Mapreduce, Hadoop Distribute File System, and Hadoop Common Components (Pig, Hive, Flume, Oozie, Hbase, Sqoop, Mahout, and others). Job automation and examples developed with SQL Server are discussed below. Apache Ambari's Hadoop ecosystem is also introduced. Additionally, the SAS Big Data Analytics tools are presented (SAS Access Interface to Hadoop, SAS Data Management, SAS Visual Analytics, SAS Visual Statistics, SAS In Memory Statistics for Hadoop, SAS High Performance Data Mining, SAS High Performance Text Mining, SAS VIYA, etc.) Big Data Analytics tools from Oracle (Big Data Appliance, Big Data Connectors, NoSQL Database, Exadata, Business Analytics, etc.), Microsoft (HDInsight, Azure, etc.) and IBM (IBM Solution for Hadoop

Power Systems Edition, IBM AIX Solution Editions for Cognos and SPSS, IBM SPSS Modeler, etc.). The quality and integrity of data in Big Data processes and the movement of data between clusters are addressed below. As an example, the copy and movement of databases between servers in SQL Server is developed. HYPER-V, Hadoop, and Ganglia cluster monitoring tools, as well as web interface and other tools, are covered later. Finally, the techniques of Big Data and Business Intelligence are deepened. The most important Business Intelligence tools (Business Objects, MicroStrategy, Tableau, Power BI, Qlik, Domo, Pentaho, etc.) are analyzed with special attention to dashboards. SAS Visual Analytics tools and SAP tools for dashboards are described. Finally, the implementation of KDD (Knowledge Discovery in Data Bases) with SAS (SAS Enterprise Miner) and IBM (IBM SPSS Modeler) tools is described through examples. Master alternative Big Data technologies that can do what Hadoop can't: real-time analytics and iterative machine learning. When most technical professionals think of Big Data analytics today, they think of Hadoop. But there are many cutting-edge applications that Hadoop isn't well suited for, especially real-time analytics and contexts requiring the use of iterative machine learning algorithms. Fortunately, several powerful new technologies have been developed specifically for use cases such as these. Big Data Analytics Beyond Hadoop is the first guide specifically designed to help you take the next steps beyond Hadoop. Dr. Vijay Srinivas Agneeswaran introduces the breakthrough Berkeley Data Analysis Stack

(BDAS) in detail, including its motivation, design, architecture, Mesos cluster management, performance, and more. He presents realistic use cases and up-to-date example code for: Spark, the next generation in-memory computing technology from UC Berkeley Storm, the parallel real-time Big Data analytics technology from Twitter GraphLab, the next-generation graph processing paradigm from CMU and the University of Washington (with comparisons to alternatives such as Pregel and Piccolo) Halo also offers architectural and design guidance and code sketches for scaling machine learning algorithms to Big Data, and then realizing them in real-time. He concludes by previewing emerging trends, including real-time video analytics, SDNs, and even Big Data governance, security, and privacy issues. He identifies intriguing startups and new research possibilities, including BDAS extensions and cutting-edge model-driven analytics. Big Data Analytics Beyond Hadoop is an indispensable resource for everyone who wants to reach the cutting edge of Big Data analytics, and stay there: practitioners, architects, programmers, data scientists, researchers, startup entrepreneurs, and advanced students. Practical Hive is your go-to resource for moving traditional relational databases into Hive, a Hadoop-based data warehousing product. Author Scott Shaw, an eminent big data expert, takes 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, and other big data technologies, Practical Hive gives you a detailed treatment of the software. In addition, the latter portion of the book includes detailed, real-world case studies grounded in everyday Hive deployments that will show you how others have coaxed the most out of their Hive data warehouses. This book introduces you to the Big Data processing techniques addressing but not limited to various BI (business intelligence) requirements, such as reporting, batch analytics, online analytical processing (OLAP), data mining and Warehousing, and predictive analytics. The book has been written on IBMs Platform of Hadoop framework. IBM Infosphere BigInsight has the highest amount of tutorial matter available free of cost on Internet which makes it easy to acquire proficiency in this technique. This therefore becomes highly vunerable coaching materials in easy to learn steps. The book optimally provides the courseware as per MCA and M. Tech Level Syllabi of most of the Universities. All components of big Data Platform like Jaql, Hive Pig, Sqoop, Flume , Hadoop Streaming, Oozie: HBase, HDFS, FlumeNG, Whirr, Cloudera, Fuse , Zookeeper and Mahout: Machine learning for Hadoop has been discussed in sufficient Detail with hands on Exercises on each. Get expert guidance on architecting end-to-end data management solutions with Apache Hadoop. While many sources explain how to use various components in the Hadoop ecosystem, this practical book takes you through architectural considerations necessary to tie those components together

into a complete tailored application, based on your particular use case. To reinforce those lessons, the book's second section provides detailed examples of architectures used in some of the most commonly found Hadoop applications. Whether you're designing a new Hadoop application, or planning to integrate Hadoop into your existing data infrastructure, Hadoop Application Architectures will skillfully guide you through the process. This book covers: Factors to consider when using Hadoop to store and model data Best practices for moving data in and out of the system Data processing frameworks, including MapReduce, Spark, and Hive Common Hadoop processing patterns, such as removing duplicate records and using windowing analytics Giraph, GraphX, and other tools for large graph processing on Hadoop Using workflow orchestration and scheduling tools such as Apache Oozie Near-real-time stream processing with Apache Storm, Apache Spark Streaming, and Apache Flume Architecture examples for clickstream analysis, fraud detection, and data warehousing If you've been asked to maintain large and complex Hadoop clusters, this book is a must. Demand for operations-specific material has skyrocketed now that Hadoop is becoming the de facto standard for truly large-scale data processing in the data center. Eric Sammer, Principal Solution Architect at Cloudera, shows you the particulars of running Hadoop in production, from planning, installing, and configuring the system to providing ongoing maintenance. Rather than run through all possible scenarios, this pragmatic operations guide calls out what

works, as demonstrated in critical deployments. Get a high-level overview of HDFS and MapReduce: why they exist and how they work Plan a Hadoop deployment, from hardware and OS selection to network requirements Learn setup and configuration details with a list of critical properties Manage resources by sharing a cluster across multiple groups Get a runbook of the most common cluster maintenance tasks Monitor Hadoop clusters—and learn troubleshooting with the help of real-world war stories Use basic tools and techniques to handle backup and catastrophic failure Big Data represents a new era in data exploration and utilization, and IBM is uniquely positioned to help clients navigate this transformation. This book reveals how IBM is leveraging open source Big Data technology, infused with IBM technologies, to deliver a robust, secure, highly available, enterprise-class Big Data platform. The three defining characteristics of Big Data--volume, variety, and velocity--are discussed. You'll get a primer on Hadoop and how IBM is hardening it for the enterprise, and learn when to leverage IBM InfoSphere BigInsights (Big Data at rest) and IBM InfoSphere Streams (Big Data in motion) technologies. Industry use cases are also included in this practical guide. Learn how IBM hardens Hadoop for enterprise-class scalability and reliability Gain insight into IBM's unique in-motion and at-rest Big Data analytics platform Learn tips and tricks for Big Data use cases and solutions Get a quick Hadoop primer Get Started Fast with Apache Hadoop ® 2, YARN, and Today’s Hadoop Ecosystem With Hadoop 2.x and YARN, Hadoop moves

beyond MapReduce to become practical for virtually any type of data processing. Hadoop 2.x and the Data Lake concept represent a radical shift away from conventional approaches to data usage and storage. Hadoop 2.x installations offer unmatched scalability and breakthrough extensibility that supports new and existing Big Data analytics processing methods and models. Hadoop ® 2 Quick-Start Guide is the first easy, accessible guide to Apache Hadoop 2.x, YARN, and the modern Hadoop ecosystem. Building on his unsurpassed experience teaching Hadoop and Big Data, author Douglas Eadline covers all the basics you need to know to install and use Hadoop 2 on personal computers or servers, and to navigate the powerful technologies that complement it. Eadline concisely introduces and explains every key Hadoop 2 concept, tool, and service, illustrating each with a simple “beginning-to-end” example and identifying trustworthy, up-to-date resources for learning more. This guide is ideal if you want to learn about Hadoop 2 without getting mired in technical details. Douglas Eadline will bring you up to speed quickly, whether you’re a user, admin, devops specialist, programmer, architect, analyst, or data scientist. Coverage Includes Understanding what Hadoop 2 and YARN do, and how they improve on Hadoop 1 with MapReduce Understanding Hadoop-based Data Lakes versus RDBMS Data Warehouses Installing Hadoop 2 and core services on Linux machines, virtualized sandboxes, or clusters Exploring the Hadoop Distributed File System (HDFS) Understanding the essentials of MapReduce and

YARN application programming Simplifying programming and data movement with Apache Pig, Hive, Sqoop, Flume, Oozie, and HBase Observing application progress, controlling jobs, and managing workflows Managing Hadoop efficiently with Apache Ambari–including recipes for HDFS to NFSv3 gateway, HDFS snapshots, and YARN configuration Learning basic Hadoop 2 troubleshooting, and installing Apache Hue and Apache Spark This book covers three major parts of Big Data: concepts, theories and applications. Written by world-renowned leaders in Big Data, this book explores the problems, possible solutions and directions for Big Data in research and practice. It also focuses on high level concepts such as definitions of Big Data from different angles; surveys in research and applications; and existing tools, mechanisms, and systems in practice. Each chapter is independent from the other chapters, allowing users to read any chapter directly. After examining the practical side of Big Data, this book presents theoretical perspectives. The theoretical research ranges from Big Data representation, modeling and topology to distribution and dimension reducing. Chapters also investigate the many disciplines that involve Big Data, such as statistics, data mining, machine learning, networking, algorithms, security and differential geometry. The last section of this book introduces Big Data applications from different communities, such as business, engineering and science. Big Data Concepts, Theories and Applications is designed as a reference for researchers and advanced level students in computer science, electrical engineering

and mathematics. Practitioners who focus on information systems, big data, data mining, business analysis and other related fields will also find this material valuable. Learn all you need to know about seven key innovations disrupting business analytics today. These innovations—the open source business model, cloud analytics, the Hadoop ecosystem, Spark and in-memory analytics, streaming analytics, Deep Learning, and self-service analytics—are radically changing how businesses use data for competitive advantage. Taken together, they are disrupting the business analytics value chain, creating new opportunities. Enterprises who seize the opportunity will thrive and prosper, while others struggle and decline: disrupt or be disrupted. Disruptive Business Analytics provides strategies to profit from disruption. It shows you how to organize for insight, build and provision an open source stack, how to practice lean data warehousing, and how to assimilate disruptive innovations into an organization. Through a short history of business analytics and a detailed survey of products and services, analytics authority Thomas W. Dinsmore provides a practical explanation of the most compelling innovations available today. What You'll Learn Discover how the open source business model works and how to make it work for you See how cloud computing completely changes the economics of analytics Harness the power of Hadoop and its ecosystem Find out why Apache Spark is everywhere Discover the potential of streaming and real-time analytics Learn what Deep Learning can do and why it matters See how self-service analytics can

change the way organizations do business Who This Book Is For Corporate actors at all levels of responsibility for analytics: analysts, CIOs, CTOs, strategic decision makers, managers, systems architects, technical marketers, product developers, IT personnel, and consultants. Hadoop è un progetto open source che permette di analizzare enormi quantit à di dati distribuiti su cluster e file system differenti. Progettato per essere scalabile da un singolo server fino a migliaia di macchine, Hadoop si occupa anche di gestire problemi e guasti a livello applicativo - piuttosto che hardware - contribuendo a ottimizzare il mantenimento dei dati archiviati. Questo libro è dedicato a chi vuole entrare nel mondo della gestione e dell'analisi di Big Data. Attraverso l'uso degli strumenti e dei framework che compongo Hadoop 2, il lettore viene guidato nella progettazione e nell'implementazione di soluzioni di complessit à differente, in grado di adattarsi a necessit à operative e gestionali diverse che considerano sia la creazione e il mantenimento di dataset, sia la loro elaborazione e analisi per ottenere il massimo dai dati collezionati. Data Science and Big Data Analytics is about harnessing the power of data for new insights. The book covers the breadth of activities and methods and tools that Data Scientists use. The content focuses on concepts, principles and practical applications that are applicable to any industry and technology environment, and the learning is supported and explained with examples that you can replicate using open-source software. This book will help you: Become a contributor on a data science team Deploy a

structured lifecycle approach to data analytics problems Apply appropriate analytic techniques and tools to analyzing big data Learn how to tell a compelling story with data to drive business action Prepare for EMC Proven Professional Data Science Certification Corresponding data sets are available from the book's page at Wiley which you can find on the Wiley site by searching for the ISBN 9781118876138. Get started discovering, analyzing, visualizing, and presenting data in a meaningful way today! Mining big data requires a deep investment in people and time. How can you be sure you're building the right models? With this hands-on book, you'll learn a flexible toolset and methodology for building effective analytics applications with Hadoop. Using lightweight tools such as Python, Apache Pig, and the D3.js library, your team will create an agile environment for exploring data, starting with an example application to mine your own email inboxes. You'll learn an iterative approach that enables you to quickly change the kind of analysis you're doing, depending on what the data is telling you. All example code in this book is available as working Heroku apps. Create analytics applications by using the agile big data development methodology Build value from your data in a series of agile sprints, using the data-value stack Gain insight by using several data structures to extract multiple features from a single dataset Visualize data with charts, and expose different aspects through interactive reports Use historical data to predict the future, and translate predictions into action Get feedback from users after each sprint to keep

your project on track Big Data Analytics with R and Hadoop is a tutorial style book that focuses on all the powerful big data tasks that can be achieved by integrating R and Hadoop.This book is ideal for R developers who are looking for a way to perform big data analytics with Hadoop. This book is also aimed at those who know Hadoop and want to build some intelligent applications over Big data with R packages. It would be helpful if readers have basic knowledge of R. From the Foreword: "Big Data Management and Processing is [a] state-of-the-art book that deals with a wide range of topical themes in the field of Big Data. The book, which probes many issues related to this exciting and rapidly growing field, covers processing, management, analytics, and applications... [It] is a very valuable addition to the literature. It will serve as a source of up-to-date research in this continuously developing area. The book also provides an opportunity for researchers to explore the use of advanced computing technologies and their impact on enhancing our capabilities to conduct more sophisticated studies." ---Sartaj Sahni, University of Florida, USA "Big Data Management and Processing covers the latest Big Data research results in processing, analytics, management and applications. Both fundamental insights and representative applications are provided. This book is a timely and valuable resource for students, researchers and seasoned practitioners in Big Data fields. --Hai Jin, Huazhong University of Science and Technology, China Big Data Management and Processing explores a range of big data related issues and their impact on the design of new

computing systems. The twenty-one chapters were carefully selected and feature contributions from several outstanding researchers. The book endeavors to strike a balance between theoretical and practical coverage of innovative problem solving techniques for a range of platforms. It serves as a repository of paradigms, technologies, and applications that target different facets of big data computing systems. The first part of the book explores energy and resource management issues, as well as legal compliance and quality management for Big Data. It covers In-Memory computing and In-Memory data grids, as well as co-scheduling for high performance computing applications. The second part of the book includes comprehensive coverage of Hadoop and Spark, along with security, privacy, and trust challenges and solutions. The latter part of the book covers mining and clustering in Big Data, and includes applications in genomics, hospital big data processing, and vehicular cloud computing. The book also analyzes funding for Big Data projects. El volumen cada vez mayor y el detalle de la informaci ó n capturada por las empresas, el aumento de las redes sociales y el fen ó meno de internet de las cosas est á n impulsando el crecimiento exponencial de los datos a un ritmo trepidante. Lidiar con el manejo de estos datos para aprovecharlos y analizarlos de cara a una mejor toma de decisiones es la tarea principal del Big Data y requiere evolucionar el enfoque en t é rminos de almacenamiento, aplicaciones de anal í tica y administradores de las bases de datos. La r á pida explosi ó n de los datos no estructurados, catalizados

por la omnipresencia de Internet y el masivo crecimiento de los dispositivos m ó viles, ha creado un nuevo mercado para capturar y analizar datos que no son tradicionales. Ahora, las fuentes de informaci ó n son sensores m ó viles, redes sociales, medios de pago electr ó nicos, sistemas de videovigilancia, v í deos, redes inteligentes, im á genes m é dicas, etc. Estamos hablando del fen ó meno de Big Data, y los primeros afectados de esta tendencia son los proveedores de bases de datos, pues deben apoyarse en nuevas tecnolog í as que ayuden a sus clientes a lidiar con tama ñ a cantidad de informaci ó n. La cuesti ó n es que Big Data no est á correctamente soportado por las bases de datos tradicionales debido a que ahora la mayor í a de los datos son desestructurados y demasiado voluminosos, lo que conlleva unos costes prohibitivos en hardware y software.Los an á lisis de datos de hoy en d í a requieren el uso de t é cnicas estad í sticas para aprender de los datos, de patrones de relieve y anomal í as, de predicciones y de profesionales que sepan utilizarlas. El empleo de tecnolog í as Big Data no solo permite aumentar la capacidad de procesamiento, tambi é n se trata de encontrar esas ideas que marcan la diferencia, siempre y cuando se disponga de los perfiles y experiencia para llevarlo a cabo. Por esta raz ó n, el Data Mining, el Bussines Intelligence (T é cnicas de Analytics) y el Big Data caminan juntos para la explotaci ó n ó ptima de la informaci ó n. Profesionales, con habilidades en matem á ticas, estad í sticas e ingenier í a inform á tica, que son capaces de extraer el m á ximo valor de los datos de la organizaci ó n, deben de trabajar juntos con

las infraestructuras ó ptimas de Big Data. La gesti ó n y an á lisis de los grandes datos, estructurados y no estructurados, aplicados en campos como la investigaci ó n cient í fica, sanidad, seguridad, redes sociales o medios de comunicaci ó n, entre otros, constituye para las empresas una herramienta ú nica de ganar competitividad y de mejora de la vida ciudadana.En cuanto a las herramientas de Big Data se observa un desarrollo creciente. Oracle utiliza Exadata para estos prop ó sitos, Microsoft utiliza Windows Azure y en c ó digo abierto destaca Hadoop, un framework sumamente popular en este campo que permite a las aplicaciones trabajar con enormes repositorios de datos y miles de nodos inspirado en herramientas de Google como MapReduce o Google File System. En este libro se analizan las herramientas que incorporan Microsoft y Oracle para Big Data Analytics. Oracle incluye Hadoop en Oracle Big Data Appliance, Oracle Big Data Connectors y Oracle Loader for Hadoop. y Microsoft incorpora Hadoop en la plataforma Windows Azure con sus aplicaciones para Big Data (HDInsight, Polybase y otras). "Apache Hadoop is helping drive the Big Data revolution. Now, its data processing has been completely overhauled: Apache Hadoop YARN provides resource management at data center scale and easier ways to create distributed applications that process petabytes of data. And now in Apache HadoopTM YARN, two Hadoop technical leaders show you how to develop new applications and adapt existing code to fully leverage these revolutionary advances." -- From the Amazon Cloud computing is

becoming the next revolution in the IT industry; providing central storage for internet data and services that have the potential to bring data transmission performance, security and privacy, data deluge, and inefficient architecture to the next level. Enabling the New Era of Cloud Computing: Data Security, Transfer, and Management discusses cloud computing as an emerging technology and its critical role in the IT industry upgrade and economic development in the future. This book is an essential resource for business decision makers, technology investors, architects and engineers, and cloud consumers interested in the cloud computing future. Describes the features and functions of Apache Hive, the data infrastructure for Hadoop. Data-intensive systems are a technological building block supporting Big Data and Data Science applications.This book familiarizes readers with core concepts that they should be aware of before continuing with independent work and the more advanced technical reference literature that dominates the current landscape. The material in the book is structured following a problem-based approach. This means that the content in the chapters is focused on developing solutions to simplified, but still realistic problems using data-intensive technologies and approaches. The reader follows one reference scenario through the whole book, that uses an open Apache dataset. The origins of this volume are in lectures from a master's course in Data-intensive Systems, given at the University of Stavanger. Some chapters were also a base for guest lectures at Purdue University and Lodz University of Technology. As

the age of Big Data emerges, it becomes necessary to take the five dimensions of Big Data- volume, variety, velocity, volatility, and veracity- and focus these dimensions towards one critical emphasis - value. The Encyclopedia of Business Analytics and Optimization confronts the challenges of information retrieval in the age of Big Data by exploring recent advances in the areas of knowledge management, data visualization, interdisciplinary communication, and others. Through its critical approach and practical application, this book will be a must-have reference for any professional, leader, analyst, or manager interested in making the most of the knowledge resources at their disposal. Se conoce como Big Data el tratamiento y an á lisis de grandes cantidades de datos, cuyo tama ñ o hace imposible manejarlos con las herramientas de bases de datos y anal í ticas convencionales. La proliferaci ó n de p á ginas web, aplicaciones de imagen y v í deo, redes sociales, dispositivos m ó viles, apps, sensores y otros dispositivos modernos capaces de generar enormes cantidades de datos han hecho necesario el desarrollo de herramientas de Big Data para su an á lisis. Hablamos de un entorno absolutamente relevante para muchos aspectos, desde el an á lisis de fen ó menos naturales como el clima o de datos sismogr á ficos, hasta entornos como salud, seguridad o, por supuesto, el á mbito empresarial.En cuanto a las herramientas de Big Data se observa un desarrollo creciente. Oracle utiliza Exadata para estos prop ó sitos, SAS utiliza Visual Analytics y otras herramientas, Microsoft utiliza Windows Azure y en c ó digo abierto destaca Hadoop,

un framework sumamente popular en este campo que permite a las aplicaciones trabajar con enormes repositorios de datos y miles de nodos inspirado en herramientas de Google como MapReduce o Google File System. Asimismo, es necesario utilizar sistemas de bases de datos no relacionales para albergar y procesar la enorme complejidad de datos de todo tipo generados, y que en muchos casos no siguen la l ó gica de garant í as ACID (atomicity, consistency, isolation, durability) caracter í stica de las bases de datos convencionales. Para solventar este problema se habilita NoSQL, que permite administrar y gestionar bases de datos no relacionales.Oracle incluye Hadoop en Oracle Big Data Appliance, Oracle Big Data Connectors y Oracle Loader for Hadoop. SAS incorpora Hadoop en sus aplicaciones (SAS Base SAS Data Integration, Sas Enterprise Guide, SAS Enterprise Miner, SAS Visual Analytics, SAS Visual Statistics y otras). IBM trabaja con Hadoop en su plataforma IBM InfoSphere BigInsights (BigInsights) y Microsoft incorpora Hadoop en la plataforma Windows Azure con sus aplicaciones para Big Data (HDInsight, Polybase y otras).Este libro trata espec í ficamente las herramientas de SAS para Big Data Analytics y en concreto profundiza en SAS VISUAL ANALYTICS, SAS VISUAL STATISTICS, SAS HIGH PERFORMANCE ANALYTICS Y SAS IN-MEMORY STATISTICS for HADOOP. Explore big data concepts, platforms, analytics, and their applications using the power of Hadoop 3 Key Features Learn Hadoop 3 to build effective big data analytics solutions on-premise

and on cloud Integrate Hadoop with other big data tools such as R, Python, Apache Spark, and Apache Flink Exploit big data using Hadoop 3 with real-world examples Book Description Apache Hadoop is the most popular platform for big data processing, and can be combined with a host of other big data tools to build powerful analytics solutions. Big Data Analytics with Hadoop 3 shows you how to do just that, by providing insights into the software as well as its benefits with the help of practical examples. Once you have taken a tour of Hadoop 3's latest features, you will get an overview of HDFS, MapReduce, and YARN, and how they enable faster, more efficient big data processing. You will then move on to learning how to integrate Hadoop with the open source tools, such as Python and R, to analyze and visualize data and perform statistical computing on big data. As you get acquainted with all this, you will explore how to use Hadoop 3 with Apache Spark and Apache Flink for real-time data analytics and stream processing. In addition to this, you will understand how to use Hadoop to build analytics solutions on the cloud and an end-to-end pipeline to perform big data analysis using practical use cases. By the end of this book, you will be well-versed with the analytical capabilities of the Hadoop ecosystem. You will be able to build powerful solutions to perform big data analytics and get insight effortlessly. What you will learn Explore the new features of Hadoop 3 along with HDFS, YARN, and MapReduce Get well-versed with the analytical capabilities of Hadoop ecosystem using practical examples Integrate Hadoop with R and Python for more efficient big data

processing Learn to use Hadoop with Apache Spark and Apache Flink for real-time data analytics Set up a Hadoop cluster on AWS cloud Perform big data analytics on AWS using Elastic Map Reduce Who this book is for Big Data Analytics with Hadoop 3 is for you if you are looking to build high-performance analytics solutions for your enterprise or business using Hadoop 3's powerful features, or you're new to big data analytics. A basic understanding of the Java programming language is required. 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 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 Leverage the power of MongoDB 4.x to build and administer fault-tolerant database applications Key FeaturesMaster the new features and capabilities of MongoDB 4.x Implement advanced data modeling, querying, and administration techniques in MongoDBIncludes rich case-studies and best practices

followed by expert MongoDB developersBook Description MongoDB is the best platform for working with non-relational data and is considered to be the smartest tool for organizing data in line with business needs. The recently released MongoDB 4.x supports ACID transactions and makes the technology an asset for enterprises across the IT and fintech sectors. This book provides expertise in advanced and niche areas of managing databases (such as modeling and querying databases) along with various administration techniques in MongoDB, thereby helping you become a successful MongoDB expert. The book helps you understand how the newly added capabilities function with the help of some interesting examples and large datasets. You will dive deeper into niche areas such as high-performance configurations, optimizing SQL statements, configuring large-scale sharded clusters, and many more. You will also master best practices in overcoming database failover, and master recovery and backup procedures for database security. By the end of the book, you will have gained a practical understanding of administering database applications both on premises and on the cloud; you will also be able to scale database applications across all servers. What you will learnPerform advanced querying techniques such as indexing and expressionsConfigure, monitor, and maintain a highly scalable MongoDB environment Master replication and data sharding to optimize read/write performance Administer MongoDB-based applications on premises or on the cloud Integrate MongoDB with big data sources to process huge amounts

of data Deploy MongoDB on Kubernetes containers Use MongoDB in IoT, mobile, and serverless environmentsWho this book is for This book is ideal for MongoDB developers and database administrators who wish to become successful MongoDB experts and build scalable and fault-tolerant applications using MongoDB. It will also be useful for database professionals who wish to become certified MongoDB professionals. Some understanding of MongoDB and basic database concepts is required to get the most out of this book. Emerging Library Technologies, is written for librarians/information professionals, teachers, administrators, researchers, undergraduate/graduate students, and others who are interested in learning about some of the most popular emerging technologies in the media today such as artificial intelligence, robotics, drones, driverless vehicles, big data, virtual/augmented reality, 3D printing, and wearable technologies. This valuable resourse shows how they can be used in libraries and resource centers, and how to get stakeholder buy in for implementing these technologies. Covers innovative insights on how these emerging technologies can be used in all types libraries and resource centers. Discusses how to get key stakeholders on board before implementing emerging technologies including a checklist to complete before presenting your technology proposal to senior management. Brings unique perspective for assisting people who will be displaced by these emerging technologies. Includes resources at the end of every chapter on keeping abreast and building expertise on the

emerging technology topic. Contains tips on how professionals can forge strategic relationships to collaborate on emerging technology projects such as preparing students for STEM and STEAM careers. Poses engaging questions for further discussion after each chapter. Includes comprehensive glossary at the end of each chapter. There’s a lot of information about big data technologies, but splicing these technologies into an end-to-end enterprise data platform is a daunting task not widely covered. With this practical book, you’ll learn how to build big data infrastructure both on-premises and in the cloud and successfully architect a modern data platform. Ideal for enterprise architects, IT managers, application architects, and data engineers, this book shows you how to overcome the many challenges that emerge during Hadoop projects. You’ll explore the vast landscape of tools available in the Hadoop and big data realm in a thorough technical primer before diving into: Infrastructure: Look at all component layers in a modern data platform, from the server to the data center, to establish a solid foundation for data in your enterprise Platform: Understand aspects of deployment, operation, security, high availability, and disaster recovery, along with everything you need to know to integrate your platform with the rest of your enterprise IT Taking Hadoop to the cloud: Learn the important architectural aspects of running a big data platform in the cloud while maintaining enterprise security and high availability Hadoop in Action teaches readers how to use Hadoop and write MapReduce programs. The intended readers are programmers,

architects, and project managers who have to process large amounts of data offline. Hadoop in Action will lead the reader from obtaining a copy of Hadoop to setting it up in a cluster and writing data analytic programs. The book begins by making the basic idea of Hadoop and MapReduce easier to grasp by applying the default Hadoop installation to a few easy-to-follow tasks, such as analyzing changes in word frequency across a body of documents. The book continues through the basic concepts of MapReduce applications developed using Hadoop, including a close look at framework components, use of Hadoop for a variety of data analysis tasks, and numerous examples of Hadoop in action. Hadoop in Action will explain how to use Hadoop and present design patterns and practices of programming MapReduce. MapReduce is a complex idea both conceptually and in its implementation, and Hadoop users are challenged to learn all the knobs and levers for running Hadoop. This book takes you beyond the mechanics of running Hadoop, teaching you to write meaningful programs in a MapReduce framework. This book assumes the reader will have a basic familiarity with Java, as most code examples will be written in Java. Familiarity with basic statistical concepts (e.g. histogram, correlation) will help the reader appreciate the more advanced data processing examples. Purchase of the print book comes with an offer of a free PDF, ePub, and Kindle eBook from Manning. Also available is all code from the book. The digital age has presented an exponential growth in the amount of data available to individuals looking to draw conclusions based

on given or collected information across industries. Challenges associated with the analysis, security, sharing, storage, and visualization of large and complex data sets continue to plague data scientists and analysts alike as traditional data processing applications struggle to adequately manage big data. The Handbook of Research on Big Data Storage and Visualization Techniques is a critical scholarly resource that explores big data analytics and technologies and their role in developing a broad understanding of issues pertaining to the use of big data in multidisciplinary fields. Featuring coverage on a broad range of topics, such as architecture patterns, programing systems, and computational energy, this publication is geared towards professionals, researchers, and students seeking current research and application topics on the subject. Due to the increasing availability of affordable internet services, the number of users, and the need for a wider range of multimedia-based applications, internet usage is on the rise. With so many users and such a large amount of data, the requirements of analyzing large data sets leads to the need for further advancements to information processing. Big Data Processing With Hadoop is an essential reference source that discusses possible solutions for millions of users working with a variety of data applications, who expect fast turnaround responses, but encounter issues with processing data at the rate it comes in. Featuring research on topics such as market basket analytics, scheduler load simulator, and writing YARN applications, this book is ideally designed for IoT

professionals, students, and engineers seeking coverage on many of the real-world challenges regarding big data. Do you want to broaden your Hadoop skill set and take your knowledge to the next level? Do you wish to enhance your knowledge of Hadoop to solve challenging data processing problems? Are your Hadoop jobs, Pig scripts, or Hive queries not working as fast as you intend? Are you looking to understand the benefits of upgrading Hadoop? If the answer is yes to any of these, this book is for you. It assumes novice-level familiarity with Hadoop. Harness the power of PolyBase data virtualization software to make data from a variety of sources easily accessible through SQL queries while using the T-SQL skills you already know and have mastered. PolyBase Revealed shows you how to use the PolyBase feature of SQL Server 2019 to integrate SQL Server with Azure Blob Storage, Apache Hadoop, other SQL Server instances, Oracle, Cosmos DB, Apache Spark, and more. You will learn how PolyBase can help you reduce storage and other costs by avoiding the need for ETL processes that duplicate data in order to make it accessible from one source. PolyBase makes SQL Server into that one source, and T-SQL is your golden ticket. The book also covers PolyBase scale-out clusters, allowing you to distribute PolyBase queries among several SQL Server instances, thus improving performance. With great flexibility comes great complexity, and this book shows you where to look when queries fail, complete with coverage of internals, troubleshooting techniques, and where to find more information on obscure cross-platform errors. Data

virtualization is a key target for Microsoft with SQL Server 2019. This book will help you keep your skills current, remain relevant, and build new business and career opportunities around Microsoft's product direction. What You Will LearnInstall and configure PolyBase as a stand-alone service, or unlock its capabilities with a scale-out cluster Understand how PolyBase interacts with outside data sources while presenting their data as regular SQL Server tables Write queries combining data from SQL Server, Apache Hadoop, Oracle, Cosmos DB, Apache Spark, and more Troubleshoot PolyBase queries using SQL Server Dynamic Management Views Tune PolyBase queries using statistics and execution plans Solve common business problems, including "cold storage" of infrequently accessed data and simplifying ETL jobs Who This Book Is For SQL Server developers working in multi-platform environments who want one easy way of communicating with, and collecting data from, all of these sources Hadoop: The Definitive Guide helps you harness the power of your data. Ideal for processing large datasets, the Apache Hadoop framework is an open source implementation of the MapReduce algorithm on which Google built its empire. This comprehensive resource demonstrates how to use Hadoop to build reliable, scalable, distributed systems: programmers will find details for analyzing large datasets, and administrators will learn how to set up and run Hadoop clusters. Complete with case studies that illustrate how Hadoop solves specific problems, this book helps you: Use the Hadoop Distributed File System (HDFS) for storing

large datasets, and run distributed computations over those datasets using MapReduce Become familiar with Hadoop's data and I/O building blocks for compression, data integrity, serialization, and persistence Discover common pitfalls and advanced features for writing real-world MapReduce programs Design, build, and administer a dedicated Hadoop cluster, or run Hadoop in the cloud Use Pig, a high-level query language for large-scale data processing Take advantage of HBase, Hadoop's database for structured and semi-structured data Learn ZooKeeper, a toolkit of coordination primitives for building distributed systems If you have lots of data -- whether it's gigabytes or petabytes -- Hadoop is the perfect solution. Hadoop: The Definitive Guide is the most thorough book available on the subject. "Now you have the opportunity to learn about Hadoop from a master-not only of the technology, but also of common sense and plain talk."-- Doug Cutting, Hadoop Founder, Yahoo!

- Hadoop Application Architectures
- Hadoop The Definitive Guide
- Big Data Black Book
- Understanding Big Data Analytics For Enterprise Class Hadoop And Streaming Data
- Big Data Analytics With Hadoop 3
- Data Science And Big Data Analytics
- Big Data Processing With Hadoop
- Apache Hadoop YARN
- Mastering Hadoop
- Handbook Of Research On Big Data Storage And Visualization Techniques
- Programming Hive
- Hadoop Operations
- Big Data Management And Processing
- Architecting Modern Data Platforms
- Big Data Analytics With R And Hadoop
- Hadoop For Dummies
- Hadoop In Action
- Hadoop The Definitive Guide
- Encyclopedia Of Business Analytics And Optimization
- Agile Data Science
- Emerging Library Technologies
- Data Revolution
- Big Data Concepts Theories And Applications
- Big Data Analytics Y Soluciones Hadoop Con Herramientas De Sas
- Disruptive Analytics

- Hadoop Security
- PolyBase Revealed
- Big Data Analytics Y Soluciones Hadoop Con Herramientas De Microsoft Y Oracle
- Hadoop 2 Quick Start Guide
- Apache Sqoop Cookbook
- Enabling The New Era Of Cloud Computing Data Security Transfer And Management
- Mastering MongoDB 4x
- Big Data Analytics Beyond Hadoop
- APPLIED BIG DATA AND BUSINESS INTELLIGENCE WITH SOFTWARE TOOLS
- BIG DATA Tecnicas Herramientas Y Aplicaciones