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Titolo	Big Data Made Easy : A Working Guide to the Complete Hadoop Toolset // by Michael Frampton
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Note generali	Includes index.
Nota di contenuto	""Contents at a Glance""; ""Contents""; ""About the Author""; ""About the Technical Reviewer""; ""Acknowledgments""; ""Introduction""; ""Chapter 1: The Problem with Data""; ""A Definition of a€œBig Dataa€?""; ""The Potentials and Difficulties of Big Data""; ""Requirements for a Big Data System""; ""How Hadoop Tools Can Help""; ""My Approach""; ""Overview of the Big Data System""; ""Big Data Flow and Storage""; ""Benefits of Big Data Systems""; ""Whata€?s in This Book""; ""Storage: Chapter 2""; ""Data Collection: Chapter 3""; ""Processing: Chapter 4""; ""Scheduling: Chapter 5"" ""Data Movement: Chapter 6""""Monitoring: Chapter 7""; ""Cluster Management: Chapter 8""; ""Analysis: Chapter 9""; ""ETL: Chapter 10""; ""Reports: Chapter 11""; ""Summary""; ""Chapter 2: Storing and Configuring Data with Hadoop, YARN, and ZooKeeper""; ""An Overview of Hadoop""; ""The Hadoop V1 Architecture""; ""The Differences in Hadoop V2""; ""The Hadoop Stack""; ""Environment Management"";

""Hadoop V1 Installation""; ""Hadoop 1.2.1 Single-Node Installation"";  
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conf/hadoop-env. sh""; ""3. Create Hadoop temporary directory"";  
""4. Set up conf/core-site. xml""""5. Set up conf/mapred-site. xml""";  
""6. Set up file conf/hdfs-site. xml""; ""7. Format the file system"";  
""Setting up the Cluster""; ""Running a Map Reduce Job Check"";  
""Hadoop User Interfaces""; ""Hadoop V2 Installation""; ""ZooKeeper  
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ZooKeeper Client""; ""Hadoop MRv2 and YARN""; ""Running Another  
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""Chapter 3: Collecting Data with Nutch and Solr""""The Environment"";  
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""Architecture 2: Nutch 2.x""; ""Nutch and Solr Configuration""; ""HBase  
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""Potential Errors""; ""A Brief Comparison""; ""Summary""; ""Chapter 4:  
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""Java Word-Count Example 1""""Describing the Example 1 Code"";  
""Running the Example 1 Code""; ""Java Word-Count Example 2"";  
""Describing the Example 2 Code""; ""Running the Example 2 Code"";  
""Comparing the Examples""; ""Map Reduce with Pig""; ""Installing Pig"";  
""Running Pig""; ""Pig User-Defined Functions""; ""Map Reduce with  
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Overview of Scheduling""; ""The Capacity Scheduler""; ""The Fair  
Scheduler""; ""Scheduling in Hadoop V1""  
""V1 Capacity Scheduler""

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## Sommario/riassunto

Many corporations are finding that the size of their data sets are outgrowing the capability of their systems to store and process them. The data is becoming too big to manage and use with traditional tools. The solution: implementing a big data system. As Big Data Made Easy: A Working Guide to the Complete Hadoop Toolset shows, Apache Hadoop offers a scalable, fault-tolerant system for storing and processing data in parallel. It has a very rich toolset that allows for storage (Hadoop), configuration (YARN and ZooKeeper), collection (Nutch and Solr), processing (Storm, Pig, and Map Reduce), scheduling (Oozie), moving (Sqoop and Avro), monitoring (Chukwa, Ambari, and Hue), testing (Big Top), and analysis (Hive). The problem is that the Internet offers IT pros wading into big data many versions of the truth and some outright falsehoods born of ignorance. What is needed is a book just like this one: a wide-ranging but easily understood set of instructions to explain where to get Hadoop tools, what they can do, how to install them, how to configure them, how to integrate them, and how to use them successfully. And you need an expert who has worked in this area for a decade—someone just like author and big data expert Mike Frampton. Big Data Made Easy approaches the problem of managing massive data sets from a systems perspective, and it explains the roles for each project (like architect and tester, for example) and shows how the Hadoop toolset can be used at each system stage. It explains, in an easily understood manner and through numerous examples, how to use each tool. The book also explains the sliding scale of tools available depending upon data size and when and how to use them. Big Data Made Easy shows developers and architects, as well as testers and project managers, how to: Store big data

Configure big data Process big data Schedule processes Move data among SQL and NoSQL systems Monitor data Perform big data analytics Report on big data processes and projects Test big data systems Big Data Made Easy also explains the best part, which is that this toolset is free. Anyone can download it and—with the help of this book—start to use it within a day. With the skills this book will teach you under your belt, you will add value to your company or client immediately, not to mention your career.

2. Record Nr.

**Titolo**

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**Soggetti**

Renewable energy sources

Energy policy

Energy and state

Cogeneration of electric power and heat

Fossil fuels

Power resources

Materials

Catalysis

Force and energy

Renewable Energy

Energy Policy, Economics and Management

Fossil Fuel

Natural Resource and Energy Economics

Materials for Energy and Catalysis

**Lingua di pubblicazione**

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Monografia

Note generali

Includes index.

Nota di contenuto

Chapter 1.Tomorrow's Energy, Renewables Alone? -- Chapter 2. Subsea pipeline hybrid thermal insulation with phase change material and aerogel – analysis and experiments -- Chapter 3. High pressure DME spray for compression ignition engines -- Chapter 4.Priority estimation model for renewable oils in biodiesel -- Chapter 5. A relationship for estimating the exergy of rice husk using LHV -- Chapter 6. The effects of geometry and substrate material on thermoelectric generator performance.

Sommario/riassunto

This book brings together the state-of-the-art in energy and resources research. It covers wind, solar, hydro and geothermal energy, as well as more conventional power generation technologies, such as internal combustion engines. Related areas of research such as the environmental sciences, carbon dioxide emissions, and energy storage are also addressed.