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Oracle Big Data Handbook (Oracle Press)



Synopsis

Transform Big Data into Insight "In this book, some of Oracle's best engineers and architects explain how you can make use of big data. They'll tell you how you can integrate your existing Oracle solutions with big data systems, using each where appropriate and moving data between them as needed." -- Doug Cutting, co-creator of Apache Hadoop

Cowritten by members of Oracle's big data team, Oracle Big Data Handbook provides complete coverage of Oracle's comprehensive, integrated set of products for acquiring, organizing, analyzing, and leveraging unstructured data. The book discusses the strategies and technologies essential for a successful big data implementation, including Apache Hadoop, Oracle Big Data Appliance, Oracle Big Data Connectors, Oracle NoSQL Database, Oracle Endeca, Oracle Advanced Analytics, and Oracle's open source R offerings. Best practices for migrating from legacy systems and integrating existing data warehousing and analytics solutions into an enterprise big data infrastructure are also included in this Oracle Press guide.

Understand the value of a comprehensive big data strategy
Maximize the distributed processing power of the Apache Hadoop platform
Discover the advantages of using Oracle Big Data Appliance as an engineered system for Hadoop and Oracle NoSQL Database
Configure, deploy, and monitor Hadoop and Oracle NoSQL Database using Oracle Big Data Appliance
Integrate your existing data warehousing and analytics infrastructure into a big data architecture
Share data among Hadoop and relational databases using Oracle Big Data Connectors
Understand how Oracle NoSQL Database integrates into the Oracle Big Data architecture
Deliver faster time to value using in-database analytics
Analyze data with Oracle Advanced Analytics (Oracle R Enterprise and Oracle Data Mining), Oracle R Distribution, ROracle, and Oracle R Connector for Hadoop
Analyze disparate data with Oracle Endeca Information Discovery Plan and implement a big data governance strategy and develop an architecture and roadmap

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Customer Reviews

Big data management is a hot topic today, because big data delivers tremendous new value to the enterprise, across a wide variety of industries and verticals. Though the value of big data is now well accepted and understood, big data processing is still in its infancy. There is still a lot to learn; that's why I believe this handbook is so timely and useful. A big data practitioner will benefit from the complete and detailed descriptions and excellent explanations of various components and the tradeoffs of cost, design complexity, programming paradigm, and how it all fits together. I have been associated with and worked at Oracle for a long time. Besides the excellent technology that Oracle produces, I continue to be amazed and impressed by Oracle's ability to repeatedly adapt to new trends and embrace new concepts and technologies to deliver compelling data management solutions to the market. This is perhaps the most important reason for Oracle's enduring success in the market. Perhaps, this is also the most important reason why anyone interested in big data should read this book. If you are a user of Oracle technologies, you'll learn about how to extend your Oracle investment to encompass big data processing. If you're not an Oracle user, you might discover important technologies and approaches to enhance your big data projects. In either case, you will benefit! This book is about Oracle's big data offerings. As usual, Oracle has delivered a well thought-out, well integrated and comprehensive solution to the market and the authors have done a stellar job of describing Oracle's big data solutions. Processing big data involves several complementary technologies, each requiring different skills and expertise.

Big Data is big news these days. Oracle Big Data Handbook is a very thorough technical book about how to plan and implement a Big Data Infrastructure. The Oracle Big Data Handbook provides in depth information regarding why Oracle chose to provide the Oracle Big Data Appliance, the thought and design that went into the engineered system of software and hardware working together to optimize performance. The book covers the Big Data Offerings that Oracle provides and how it integrates with the Oracle stack and Oracle Engineered Systems including Oracle Exadata, Oracle Exalytics, Endeca Information Discovery, and Oracle Business Intelligence to provide a big

data solution. The Oracle Big Data Appliance takes the pain out of designing, acquiring, and implementing a do-it-yourself Big Data Cluster. The book includes detailed information about the Oracle Big Data Appliance including the hardware and software that comes with it; there is information on the Infiniband for high-performance networking, and how it is all set up. The handbook covers the offerings from Oracle for anything from if a company wants to start off small with starter rack 6-node cluster, to a full rack cluster, or multi-rack clusters. There is in depth information into the hardware provided for each cluster and the layout of the racks. The installation process is explained thoroughly. Information on the software and monitoring utilities that the Oracle Big Data Appliance has are included in the book. There is information on Cloudera's Distribution for Hadoop (CDH) is the market-leading Hadoop distribution including HDFS, Cloudera Manager, Hive, Hue, Oozie, Zookeeper, MapReduce, and Pig. The software layout for the clusters is detailed as well.

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