

Adam Jorgensen
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Microsoft® Big Data **Solutions**



Microsoft Big Data Solutions

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Microsoft Big Data Solutions Adam Jorgensen, James Rowland-Jones, John Welch, Dan Clark, Christopher Price, Brian Mitchell, 2014-02-24 Tap the power of Big Data with Microsoft technologies Big Data is here and Microsoft's new Big Data platform is a valuable tool to help your company get the very most out of it This timely book shows you how to use HDInsight along with HortonWorks Data Platform for Windows to store manage analyze and share Big Data throughout the enterprise Focusing primarily on Microsoft and HortonWorks technologies but also covering open source tools Microsoft Big Data Solutions explains best practices covers on premises and cloud based solutions and features valuable case studies Best of all it helps you integrate these new solutions with technologies you already know such as SQL Server and Hadoop Walks you through how to integrate Big Data solutions in your company using Microsoft's HDInsight Server HortonWorks Data Platform for Windows and open source tools Explores both on premises and cloud based solutions Shows how to store manage analyze and share Big Data through the enterprise Covers topics such as Microsoft's approach to Big Data installing and configuring HortonWorks Data Platform for Windows integrating Big Data with SQL Server visualizing data with Microsoft and HortonWorks BI tools and more Helps you build and execute a Big Data plan Includes contributions from the Microsoft and HortonWorks Big Data product teams If you need a detailed roadmap for designing and implementing a fully deployed Big Data solution you'll want Microsoft Big Data Solutions

Big Data Analytics with Microsoft HDInsight in 24 Hours, Sams Teach Yourself Manpreet Singh, Arshad Ali, 2015-11-12 Sams Teach Yourself Big Data Analytics with Microsoft HDInsight in 24 Hours In just 24 lessons of one hour or less Sams Teach Yourself Big Data Analytics with Microsoft HDInsight in 24 Hours helps you leverage Hadoop's power on a flexible scalable cloud platform using Microsoft's newest business intelligence visualization and productivity tools This book's straightforward step by step approach shows you how to provision configure monitor and troubleshoot HDInsight and use Hadoop cloud services to solve real analytics problems You'll gain more of Hadoop's benefits with less complexity even if you're completely new to Big Data analytics Every lesson builds on what you've already learned giving you a rock solid foundation for real world success Practical hands on examples show you how to apply what you learn Quizzes and exercises help you test your knowledge and stretch your skills Notes and tips point out shortcuts and solutions Learn how to Master core Big Data and NoSQL concepts value propositions and use cases Work with key Hadoop features such as HDFS2 and YARN Quickly install configure and monitor Hadoop HDInsight clusters in the cloud Automate provisioning customize clusters install additional Hadoop projects and administer clusters Integrate analyze and report with Microsoft BI and Power BI Automate workflows for data transformation integration and other tasks Use Apache HBase on HDInsight Use Sqoop or SSIS to move data to or from HDInsight Perform R based statistical computing on HDInsight datasets Accelerate analytics with Apache Spark Run real time analytics on high velocity data streams Write MapReduce Hive and Pig programs Register your book at informit.com register for convenient access to downloads updates

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Big Data Analytics with Microsoft: Scalable Intelligence Using Azure Synapse, Fabric, and Power BI Swarup Panda, 2025-08-07 This book is a complete guide for professionals and data enthusiasts who want to make the most of Microsoft's cloud native ecosystem for big data analytics. It covers essential services like Azure Synapse Analytics, Microsoft Fabric, and Power BI. The book provides a full framework for scalable data processing and smart decision making. Readers will learn best practices for data ingestion, transformation, storage, modeling, and visualization. They will also see how to combine data engineering, data science, and business intelligence workflows within a single Microsoft environment. With practical examples and architectural designs, this book helps readers build secure, effective, and cost-efficient analytics solutions that meet the needs of today's enterprises.

Pro Microsoft HDInsight Debarchan Sarkar, 2014-03-05 Pro Microsoft HDInsight is a complete guide to deploying and using Apache Hadoop on the Microsoft Windows Azure Platform. The information in this book enables you to process enormous volumes of structured as well as non-structured data easily using HDInsight, which is Microsoft's own distribution of Apache Hadoop. Furthermore, the blend of Infrastructure as a Service (IaaS) and Platform as a Service (PaaS) offerings available through Windows Azure lets you take advantage of Hadoop's processing power without the worry of creating, configuring, maintaining, or managing your own cluster. With the data explosion that is soon to happen, the open source Apache Hadoop Framework is gaining traction, and it benefits from a huge ecosystem that has risen around the core functionalities of the Hadoop distributed file system (HDFS) and Hadoop Map Reduce. Pro Microsoft HDInsight equips you with the knowledge, confidence, and technique to configure and manage this ecosystem on Windows Azure. The book is an excellent choice for anyone aspiring to be a data scientist or data engineer, putting you a step ahead in the data mining field. Guides you through installation and configuration of an HDInsight cluster on Windows Azure. Provides clear examples of configuring and executing Map Reduce jobs. Helps you consume data and diagnose errors from the Windows Azure HDInsight Service.

IoT Solutions in Microsoft's Azure IoT Suite Scott Klein, 2017-04-20 Collect and analyze sensor and usage data from Internet of Things applications with Microsoft Azure IoT Suite. Internet connectivity to everyday devices such as light bulbs, thermostats, and even voice command devices such as Google Home and Amazon.com's Alexa is exploding. These connected devices and their respective applications generate large amounts of data that can be mined to enhance user friendliness and make predictions about what a user might be likely to do next. Microsoft's Azure IoT Suite is a cloud-based platform that is ideal for collecting data from connected devices. You'll learn in this book about data acquisition and analysis, including real-time analysis. Real-world examples are provided to teach you to detect anomalous patterns in your data that might lead to business advantage. We live in a time when the amount of data being generated and stored is growing at an exponential rate. Understanding and getting real-time insight into these data is critical to business. IoT Solutions in Microsoft's Azure IoT Suite walks you through a complete end-to-end journey of how to collect and store data from Internet-connected devices. You'll learn to analyze the data and to apply your results to solving

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Chauhan,Valentine Fontana,Michele Hart,Wee-Hyong Tok,Buck Woody,2014-06-12 Microsoft Azure HDInsight is Microsoft s 100 percent compliant distribution of Apache Hadoop on Microsoft Azure This means that standard Hadoop concepts and technologies apply so learning the Hadoop stack helps you learn the HDInsight service At the time of this writing HDInsight version 3 0 uses Hadoop version 2 2 and Hortonworks Data Platform 2 0 In Introducing Microsoft Azure HDInsight we cover what big data really means how you can use it to your advantage in your company or organization and one of the services you can use to do that quickly specifically Microsoft s HDInsight service We start with an overview of big data and Hadoop but we don t emphasize only concepts in this book we want you to jump in and get your hands dirty working with HDInsight in a practical way To help you learn and even implement HDInsight right away we focus on a specific use case that applies to almost any organization and demonstrate a process that you can follow along with We also help you learn more In the last chapter we look ahead at the future of HDInsight and give you recommendations for self learning so that you can dive deeper into important concepts and round out your education on working with big data [MICROSOFT SQL SERVER.](#)

[ENHANCEMENTS, BUSINESS INTELLIGENCE AND BIG DATA](#) CESAR PEREZ LOPEZ, SQL Server takes advantage of the new capabilities of Windows Server 2012 Windows Server 2012 R2 and Windows Server 2016 to provide unparalleled scalability for database applications on a physical or virtual environment SQL Server also incorporates new capabilities on big data and business intelligence that will be developed throughout this book [Planning for Big Data](#) Edd

Wilder-James,2012-03-12 In an age where everything is measurable understanding big data is an essential From creating new data driven products through to increasing operational efficiency big data has the potential to make your organization both more competitive and more innovative As this emerging field transitions from the bleeding edge to enterprise

infrastructure it's vital to understand not only the technologies involved but the organizational and cultural demands of being data driven. Written by O'Reilly Radar's experts on big data, this anthology describes the broad industry changes heralded by the big data era. What big data is, what it means to your business, and how to start solving data problems. The software that makes up the Hadoop big data stack and the major enterprise vendors. Hadoop solutions. The landscape of NoSQL databases and their relative merits. How visualization plays an important part in data work.

Cloud Computing And Big Data Technology (Second Edition) Junxiu An, Sian Jin, Lilang Wan, 2025-07-02. This book comprehensively introduces the basic knowledge and main technologies of cloud computing and big data. It covers cloud computing, big data technology, virtualization technology, data centers, parallel computing and clustering technology, cloud storage technology, OpenStack, Hadoop, Spark, Storm, and cloud computing simulation. With a focus on practicality, this volume is enriched with experiments and closely integrates theory with practice, enabling readers to systematically and comprehensively understand cloud computing and big data technologies. This useful reference textbook benefits professionals, academics, researchers, graduate and undergraduate students in databases, information sciences.

Exam Ref 70-534 Architecting Microsoft Azure Solutions Haishi Bai, Steve Maier, Dan Stoltz, 2015-05-15. Prepare for Microsoft Exam 70-534 and help demonstrate your real-world mastery of Microsoft Azure solution design and architecture. Designed for experienced IT pros ready to advance their status, Exam Ref focuses on the critical thinking and decision-making acumen needed for success at the Microsoft Specialist level. Focus on the expertise measured by these objectives: Describe Microsoft Azure infrastructure and networking. Help secure resources. Design an application storage and data access strategy. Design an advanced application. Design websites. Design a management, monitoring, and business continuity strategy. This Microsoft Exam Ref organizes its coverage by exam objectives. Features strategic what-if scenarios to challenge you. Assumes you have experience designing Microsoft Azure cloud or hybrid solutions and supporting application life cycle management.

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advanced Windows professional who is ready to make the leap to the cloud **The Human Element of Big Data** Geetam S. Tomar, Narendra S. Chaudhari, Robin Singh Bhadoria, Ganesh Chandra Deka, 2016-10-26 The proposed book talks about the participation of human in Big Data. How human as a component of system can help in making the decision process easier and vibrant. It studies the basic build structure for big data and also includes advanced research topics. In the field of Biological sciences it comprises genomic and proteomic data also. The book swaps traditional data management techniques with more robust and vibrant methodologies that focus on current requirement and demand through human computer interfacing in order to cope up with present business demand. Overall the book is divided into five parts where each part contains 4-5 chapters on versatile domain with human side of Big Data [Learning Microsoft Azure](#) Jonah Carrio Andersson, 2023-11-20 If your organization plans to modernize services and move to the cloud from legacy software or a private cloud on premises this book is for you. Software developers, solution architects, cloud engineers, and anybody interested in cloud technologies will learn fundamental concepts for cloud computing, migration, transformation, and development using Microsoft Azure. Author and Microsoft MVP Jonah Carrio Andersson guides you through cloud computing concepts and deployment models, the wide range of modern cloud technologies, application development with Azure, team collaboration services, security services, and cloud migration options in Microsoft Azure. You'll gain insight into the Microsoft Azure cloud services that you can apply in different business use cases, software development projects, and modern solutions in the cloud. You'll also become fluent with Azure cloud migration services, serverless computing technologies that help your development team work productively, Azure IoT, and Azure cognitive services that make your application smarter. This book also provides real world advice and best practices based on the author's own Azure migration experience. Gain insight into which Azure cloud service best suits your company's particular needs. Understand how to use Azure for different use cases and specific technical requirements. Start developing cloud services, applications, and solutions in the Azure environment. Learn how to migrate existing legacy applications to Microsoft Azure *Applied Microsoft Business Intelligence* Patrick LeBlanc, Jessica M. Moss, Dejan Sarka, Dustin Ryan, 2015-05-06 Leverage the integration of SQL Server and Office for more effective BI. *Applied Microsoft Business Intelligence* shows you how to leverage the complete set of Microsoft tools including Microsoft Office and SQL Server to better analyze business data. This book provides best practices for building complete BI solutions using the full Microsoft toolset. You will learn how to effectively use SQL Server Analysis and Reporting Services along with Excel, SharePoint, and other tools to provide effective and cohesive solutions for the enterprise. Coverage includes BI architecture, data queries, semantic models, multidimensional modeling, data analysis, and visualization, performance monitoring, data mining, and more to help you learn to perform practical business analysis and reporting. Written by an author team that includes a key member of the BI product team at Microsoft, this useful reference provides expert instruction for more effective use of the Microsoft BI toolset. Use Microsoft BI suite cohesively for more effective enterprise solutions. Search

analyze and visualize data more efficiently and completely Develop flexible and scalable tabular and multidimensional models Monitor performance build a BI portal and deploy and manage the BI Solution **Analytics and Big Data for**

Accountants Jim Lindell, 2020-10-29 Why is big data analytics one of the hottest business topics today This book will help accountants and financial managers better understand big data and analytics including its history and current trends It dives into the platforms and operating tools that will help you measure program impacts and ROI visualize data and business processes and uncover the relationship between key performance indicators Key topics covered include Evidence based techniques for finding or generating data selecting key performance indicators isolating program effects Relating data to return on investment financial values and executive decision making Data sources including surveys interviews customer satisfaction engagement and operational data Visualizing and presenting complex results *Microsoft Certified Exam guide - Azure Data Engineer Associate (DP-203)* Cybellium, Unlock the Power of Data with Azure Data Engineering Are you ready to become a Microsoft Azure Data Engineer Associate and harness the transformative potential of data in the cloud Look no further than the Microsoft Certified Exam Guide Azure Data Engineer Associate DP 203 This comprehensive book is your ultimate companion on the journey to mastering Azure data engineering and acing the DP 203 exam In today's data driven world organizations depend on the efficient management processing and analysis of data to make critical decisions and drive innovation Microsoft Azure provides a cutting edge platform for data engineers to design and implement data solutions and the demand for skilled professionals in this field is soaring Whether you're an experienced data engineer or just starting your journey this book equips you with the knowledge and skills needed to excel in Azure data engineering Inside this book you will discover Comprehensive Coverage A deep dive into all the key concepts tools and best practices required for designing building and maintaining data solutions on Azure Real World Scenarios Practical examples and case studies that illustrate how Azure is used to solve complex data challenges making learning engaging and relevant Exam Ready Preparation Thorough coverage of DP 203 exam objectives complete with practice questions and expert tips to ensure you're well prepared for exam day Proven Expertise Authored by Azure data engineering professionals who hold the certification and have hands on experience in developing data solutions offering you invaluable insights and practical guidance Whether you aspire to advance your career validate your expertise or simply become a proficient Azure Data Engineer Microsoft Certified Exam Guide Azure Data Engineer Associate DP 203 is your trusted companion on this journey Don't miss this opportunity to become a sought after data engineering expert in a competitive job market 2023 Cybellium Ltd All rights reserved www.cybellium.com

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