

# Datastage Developer Guide

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**IBM Watson Content Analytics: Discovering Actionable Insight from Your Content** Wei-Dong (Jackie) Zhu 2014-07-07 IBM® Watson™ Content Analytics (Content Analytics) Version 3.0 (formerly known as IBM Content Analytics with Enterprise Search (ICAwES)) helps you to unlock the value of unstructured content to gain new actionable business insight and provides the enterprise search capability all in one product. Content Analytics comes with a set of tools and a robust user interface to empower you to better identify new revenue opportunities, improve customer satisfaction, detect problems early, and improve products, services, and offerings. To help you gain the most benefits from your unstructured content, this IBM Redbooks® publication provides in-depth information about the features and capabilities of Content Analytics, how the content analytics works, and how to perform effective and efficient content analytics on your content to discover actionable business insights. This book covers key concepts in content analytics, such as facets, frequency, deviation, correlation, trend, and sentimental analysis. It describes the content analytics miner, and guides you on performing content analytics using views, dictionary lookup, and customization. The book also covers using IBM Content Analytics Studio for domain-specific content analytics, integrating with IBM Content Classification to get categories and new metadata, and interfacing with IBM Cognos® Business Intelligence (BI) to add values in BI reporting and analysis, and customizing the content analytics miner with APIs. In addition, the book describes how to use the enterprise search capability for the discovery and retrieval of documents using various query and visual navigation techniques, and customization of crawling, parsing, indexing, and runtime search to improve search results. The target audience of this book is decision makers, business users, and IT architects and specialists who want to understand and analyze their enterprise content to improve and enhance their business operations. It is also intended as a technical how-to guide for use with the online IBM Knowledge Center for configuring and performing content analytics and enterprise search with Content Analytics.

**USB Complete: The Developer's Guide, Fifth Edition** Jan Axelson 2015-03-01 Developers who design and program USB devices have a new resource in the fifth edition of USB Complete: The Developer's Guide. This edition adds an introduction to USB 3.1 and SuperSpeedPlus bus, which offers a 2x increase in bus speed over USB 3.0's SuperSpeed. For designs that don't require USB 3.1's capabilities, the book also covers USB 2.0 technology and applications. USB Complete Fifth Edition bridges the gap between the technical specifications and the real world of design and programming. Author Jan Axelson distills the fundamentals of the protocols and guides developers in choosing device hardware, deciding whether to target a USB class driver or another host driver, and writing device firmware and host applications. Example code in Visual C# shows how to detect and access USB devices and how to program and communicate with vendor-defined devices that use the human-interface-device (HID) class driver and Microsoft's WinUSB driver. Also covered are how to use bus power, including new advanced power delivery capabilities, wireless communications for USB devices, and developing embedded hosts, including dual-role USB On-The-Go devices. Programmers and hardware designers can rely on USB Complete's Fifth Edition to help get projects up and running quickly. Students and hobbyists will learn how to use the interface built into every PC. Instructors will find inspiration and guidance for class projects.

**An Introduction to IMS** Barbara Klein 2012 Normal 0 false false MicrosoftInternetExplorer4 IBM's Definitive One-Stop Guide to IMS Versions 12, 11, and 10: for Every IMS DBA, Developer, and System Programmer Over 90% of the top Fortune(R) 1000 companies rely on IBM's Information Management System (IMS) for their most critical IBM System z(R) data management needs: 50,000,000,000+ transactions run through IMS databases every day. What's more, IBM continues to upgrade IMS: Versions 12, 11, and 10 meet today's business challenges more flexibly and at a lower cost than ever before. In An Introduction to IMS, Second Edition, leading IBM experts present the definitive technical introduction to these versions of IMS. More than a complete tutorial, this book provides up-to-date examples, cases, problems, solutions, and a complete glossary of IMS terminology. Prerequisite reading for the current IBM IMS Mastery Certification Program, it reflects major recent enhancements such as dynamic information generation; new access, interoperability and development tools; improved SOA support; and much more. Whether you're a DBA, database developer, or system programmer, it brings together all the knowledge you'll need to succeed with IMS in today's mission critical environments. Coverage includes What IMS is, how it works, how it has evolved, and how it fits into modern enterprise IT architectures Providing secure access to IMS via IMS-managed application programs Understanding how IMS and z/OS(R) work together to use hardware and software more efficiently Setting up, running, and maintaining IMS Running IMS Database Manager: using the IMS Hierarchical Database Model, sharing data, and reorganizing databases Understanding, utilizing, and optimizing IMS Transaction Manager IMS application development: application programming for the IMS Database and IMS Transaction Managers, editing and formatting messages, and programming applications in Java(TM) IMS system administration: the IMS system definition process, customizing IMS, security, logging, IMS operations, database and system recovery, and more IMS in Parallel Sysplex(R) environments: ensuring high availability, providing adequate capacity, and balancing workloads

**Batch Modernization on z/OS** Mike Ebberts 2012-07-26 Mainframe computers play a central role in the daily operations of many of the world's largest corporations, and batch processing is a fundamental part of the workloads that run on the mainframe. A large portion of the workload on IBM® z/OS® systems is processed in batch mode. Although several IBM Redbooks® publications discuss application modernization on the IBM z/OS platform, this book specifically addresses batch processing in detail. Many different technologies are available in a batch environment on z/OS systems. This book demonstrates these technologies and shows how the z/OS system offers a sophisticated environment for batch. In this practical book, we discuss a variety of themes that are of importance for batch workloads on z/OS systems and offer examples that you can try on your own system. The audience for this book includes IT architects and application developers, with a focus on batch processing on the z/OS platform.

**IBM InfoSphere Information Server Deployment Architectures** Chuck Ballard 2013-01-17 Typical deployment architectures introduce challenges to fully using the shared metadata platform across products, environments, and servers. Data privacy and information security requirements add even more levels of complexity. IBM® InfoSphere® Information Server provides a comprehensive, metadata-driven platform for delivering trusted information across heterogeneous systems. This IBM Redbooks® publication presents guidelines and criteria for the successful

deployment of InfoSphere Information Server components in typical logical infrastructure topologies that use shared metadata capabilities of the platform, and support development lifecycle, data privacy, information security, high availability, and performance requirements. This book can help you evaluate information requirements to determine an appropriate deployment architecture, based on guidelines that are presented here, and that can fulfill specific use cases. It can also help you effectively use the functionality of your Information Server product modules and components to successfully achieve your business goals. This book is for IT architects, information management and integration specialists, and system administrators who are responsible for delivering the full suite of information integration capabilities of InfoSphere Information Server. **Beyond Big Data** Martin Oberhofer 2014-10-17 Drive Powerful Business Value by Extending MDM to Social, Mobile, Local, and Transactional Data Enterprises have long relied on Master Data Management (MDM) to improve customer-related processes. But MDM was designed primarily for structured data. Today, crucial information is increasingly captured in unstructured, transactional, and social formats: from tweets and Facebook posts to call center transcripts. Even with tools like Hadoop, extracting usable insight is difficult—often, because it's so difficult to integrate new and legacy data sources. In Beyond Big Data, five of IBM's leading data management experts introduce powerful new ways to integrate social, mobile, location, and traditional data. Drawing on pioneering experience with IBM's enterprise customers, they show how Social MDM can help you deepen relationships, improve prospect targeting, and fully engage customers through mobile channels. Business leaders and practitioners will discover powerful new ways to combine social and master data to improve performance and uncover new opportunities. Architects and other technical leaders will find a complete reference architecture, in-depth coverage of relevant technologies and use cases, and domain-specific best practices for their own projects. Coverage Includes How Social MDM extends fundamental MDM concepts and techniques Architecting Social MDM: components, functions, layers, and interactions Identifying high value relationships: person to product and person to organization Mapping Social MDM architecture to specific products and technologies Using Social MDM to create more compelling customer experiences Accelerating your transition to highly-targeted, contextual marketing Incorporating mobile data to improve employee productivity Avoiding privacy and ethical pitfalls throughout your ecosystem Previewing Semantic MDM and other emerging trends

**A Practical Guide to Managing Reference Data with IBM InfoSphere Master Data Management Reference Data Management Hub** Whei-Jen Chen 2013-05-06 IBM® InfoSphere® Master Data Management Reference Data Management Hub (InfoSphere MDM Ref DM Hub) is designed as a ready-to-run application that provides the governance, process, security, and audit control for managing reference data as an enterprise standard, resulting in fewer errors, reduced business risk and cost savings. This IBM Redbooks® publication describes where InfoSphere MDM Ref DM Hub fits into information management reference architecture. It explains the end-to-end process of an InfoSphere MDM Ref DM Hub implementation including the considerations of planning a reference data management project, requirements gathering and analysis, model design in detail, and integration considerations and scenarios. It then shows implementation examples and the ongoing administration tasks. This publication can help IT professionals who are interested or have a need to manage reference data efficiently and implement an InfoSphere MDM Ref DM Hub solution with ease.

**Creative Approaches to Problem Solving** Scott G. Isaksen 2010-01-20 Everything your students need to solve problems, manage change and deliver innovation using the Creative Problem Solving framework This text is the most comprehensive and contemporary overview and description of Creative Problem Solving (CPS) available today. Friendly and highly practical for a broad base of researchers and practitioners, the book provides a framework, language, guidelines, and set of easy-to-use tools for understanding challenges, generating ideas, and transforming promising ideas into action. New and Hallmark Features The authors expanded their emphasis on CPS as a flexible, dynamic process that enables users to select and apply CPS tools, components, and stages in a meaningful way that meets their actual needs. A framework for problem solving that has been tested and applied across ages, settings, and cultures allows readers to apply a common approach to process across many traditional "boundaries." Specific objectives in each chapter provide a clear focus for instruction or independent learning. Practical case studies introduced at the beginning of each chapter and then completed as a "rest of the story" toward the end of the chapter provide an application anchor for the reader. New enhanced graphics: Updated and refreshed tables, figures, and illustrative images provide "pictures" to go along with the authors' words. A companion Web site with additional resources can be found at [www.sagepub.com/Isaksen3e](http://www.sagepub.com/Isaksen3e).

**InfoSphere DataStage Parallel Framework Standard Practices** Julius Lerm 2013-02-12 In this IBM® Redbooks® publication, we present guidelines for the development of highly efficient and scalable information integration applications with InfoSphere™ DataStage® (DS) parallel jobs. InfoSphere DataStage is at the core of IBM Information Server, providing components that yield a high degree of freedom. For any particular problem there might be multiple solutions, which tend to be influenced by personal preferences, background, and previous experience. All too often, those solutions yield less than optimal, and non-scalable, implementations. This book includes a comprehensive detailed description of the components available, and descriptions on how to use them to obtain scalable and efficient solutions, for both batch and real-time scenarios. The advice provided in this document is the result of the combined proven experience from a number of expert practitioners in the field of high performance information integration, evolved over several years. This book is intended for IT architects, Information Management specialists, and Information Integration specialists responsible for delivering cost-effective IBM InfoSphere DataStage performance on all platforms. **Monetizing Your Data** Andrew Roman Wells 2017-03-13 Transforming data into revenue generating strategies and actions Organizations are swamped with data—collected from web traffic, point of sale systems, enterprise resource planning systems, and more, but what to do with it? Monetizing your Data provides a framework and path for business managers to convert ever-increasing volumes of data into revenue generating actions through three disciplines: decision architecture, data science, and guided analytics. There are large gaps between understanding a business problem and knowing which data is relevant to the problem and how to leverage that data to drive significant financial performance. Using a proven methodology developed in the field through delivering meaningful solutions to Fortune 500 companies, this book gives you the analytical tools, methods, and techniques to

transform data you already have into information into insights that drive winning decisions. Beginning with an explanation of the analytical cycle, this book guides you through the process of developing value generating strategies that can translate into big returns. The companion website, [www.monetizingyourdata.com](http://www.monetizingyourdata.com), provides templates, checklists, and examples to help you apply the methodology in your environment, and the expert author team provides authoritative guidance every step of the way. This book shows you how to use your data to: Monetize your data to drive revenue and cut costs Connect your data to decisions that drive action and deliver value Develop analytic tools to guide managers up and down the ladder to better decisions Turning data into action is key; data can be a valuable competitive advantage, but only if you understand how to organize it, structure it, and uncover the actionable information hidden within it through decision architecture and guided analytics. From multinational corporations to single-owner small businesses, companies of every size and structure stand to benefit from these tools, methods, and techniques; Monetizing your Data walks you through the translation and transformation to help you leverage your data into value creating strategies.

**Pentaho Kettle Solutions** Matt Casters 2010-09-02 A complete guide to Pentaho Kettle, the Pentaho Data Integration toolset for ETL This practical book is a complete guide to installing, configuring, and managing Pentaho Kettle. If you're a database administrator or developer, you'll first get up to speed on Kettle basics and how to apply Kettle to create ETL solutions—before progressing to specialized concepts such as clustering, extensibility, and data vault models. Learn how to design and build every phase of an ETL solution. Shows developers and database administrators how to use the open-source Pentaho Kettle for enterprise-level ETL processes (Extracting, Transforming, and Loading data) Assumes no prior knowledge of Kettle or ETL, and brings beginners thoroughly up to speed at their own pace Explains how to get Kettle solutions up and running, then follows the 34 ETL subsystems model, as created by the Kimball Group, to explore the entire ETL lifecycle, including all aspects of data warehousing with Kettle Goes beyond routine tasks to explore how to extend Kettle and scale Kettle solutions using a distributed "cloud" Get the most out of Pentaho Kettle and your data warehousing with this detailed guide—from simple single table data migration to complex multisystem clustered data integration tasks.

**Metadata Management with IBM InfoSphere Information Server** Wei-Dong Zhu 2011-10-18 What do you know about your data? And how do you know what you know about your data? Information governance initiatives address corporate concerns about the quality and reliability of information in planning and decision-making processes. Metadata management refers to the tools, processes, and environment that are provided so that organizations can reliably and easily share, locate, and retrieve information from these systems. Enterprise-wide information integration projects integrate data from these systems to one location to generate required reports and analysis. During this type of implementation process, metadata management must be provided along each step to ensure that the final reports and analysis are from the right data sources, are complete, and have quality. This IBM® Redbooks® publication introduces the information governance initiative and highlights the immediate needs for metadata management. It explains how IBM InfoSphere™ Information Server provides a single unified platform and a collection of product modules and components so that organizations can understand, cleanse, transform, and deliver trustworthy and context-rich information. It describes a typical implementation process. It explains how InfoSphere Information Server provides the functions that are required to implement such a solution and, more importantly, to achieve metadata management. This book is for business leaders and IT architects with an overview of metadata management in information integration solution space. It also provides key technical details that IT professionals can use in a solution planning, design, and implementation process.

**IBM Cloud Private Application Developer's Guide** Ahmed Azraq 2019-05-01 IBM® Cloud Private is an application platform for developing and managing containerized applications across hybrid cloud environments, on-premises and public clouds. It is an integrated environment for managing containers that includes the container orchestrator Kubernetes, a private image registry, a management console, and monitoring frameworks. This IBM Redbooks® publication covers tasks that are performed by IBM Cloud™ Private application developers, such as deploying applications, application packaging with helm, application automation with DevOps, using Microclimate, and managing your service mesh with Istio. The authors team has many years of experience in implementing IBM Cloud Private and other cloud solutions in production environments. Throughout this book, we used the approach of providing you the recommended practices in those areas. As part of this project, we also developed several code examples, which can be downloaded from the Redbooks GitHub web page. If you are an IBM Cloud Private application developer, this book is for you. If you are an IBM Cloud Private systems administrator, you can see the IBM Redbooks publication IBM Private Cloud Systems Administrator's Guide, SG248440.

**Oracle to DB2 Conversion Guide: Compatibility Made Easy** Yvonne Chan 2014-07-03 This IBM® Redbooks® publication describes IBM DB2® SQL compatibility features. The latest version of DB2 includes extensive native support for the PL/SQL procedural language, new data types, scalar functions, improved concurrency, built-in packages, OCI, SQLPlus, and more. These features can help with developing applications that run on both DB2 and Oracle and can help simplify the process of moving from Oracle to DB2. In addition, IBM now provides tools to simplify the enablement process, such as the highly scalable IBM Data Movement Tool for moving schema and data into DB2, and an Editor and Profiler for PL/SQL provided by the IBM Data Studio tool suite. This Oracle to DB2 migration guide describes new technology, preferred practices for moving to DB2, and common scenarios that can help you as you move from Oracle to DB2. This book is intended for IT architects and developers who are converting from Oracle to DB2. DB2 compatibility with Oracle is provided through native support. The new capabilities in DB2 that provide compatibility are implemented at the lowest and most intimate levels of the database kernel, as though they were originally engineered for DB2. means that the DB2 implementation is done without the aid of an emulation layer. This intimacy leads to the scalable implementation that DB2 offers, providing identical performance between DB2 compatibility features and DB2 other language elements. For example, DB2 runs SQL PL at the same performance as PL/SQL implementations of the same function.

**Refactoring** Paul Becker 1999 Refactoring is gaining momentum amongst the object oriented programming community. It can transform the internal dynamics of applications and has the capacity to transform bad code into good code. This book offers an introduction to refactoring.

**IBM Information Server: Integration and Governance for Emerging Data Warehouse Demands** Chuck Ballard 2013-07-10 This IBM® Redbooks® publication is intended for business leaders and IT architects who are responsible for building and extending their data warehouse and Business Intelligence infrastructure. It provides an overview of powerful new capabilities of Information Server in the areas of big data, statistical models, data governance and data quality. The book also provides key technical details that IT professionals can use in solution planning, design, and implementation.

**InfoSphere DataStage for Enterprise XML Data Integration** Chuck Ballard 2012-05-23 XML is one of the most common standards for the exchange of information. However, organizations find challenges in how to address the complexities of dealing with

hierarchical data types, particularly as they scale to gigabytes and beyond. In this IBM® Redbooks® publication, we discuss and describe the new capabilities in IBM InfoSphere® DataStage® 8.5. These capabilities enable developers to more easily manage the design and processing requirements presented by the most challenging XML sources. Developers can use these capabilities to create powerful hierarchical transformations and to parse and compose XML data with high performance and scalability. Spanning both batch and real-time run times, these capabilities can be used to solve a broad range of business requirements. As part of the IBM InfoSphere Information Server 8.5 release, InfoSphere DataStage was enhanced with new hierarchical transformation capabilities called . XML Stage provides native XML schema support and powerful XML transformation functionality. These capabilities are based on a unique state-of-the-art technology that allows you to parse and compose any complex XML structure from and to a relational form, as well as to a separate hierarchical form. This book is targeted at an audience of systems designers and developers who focus on implementing XML integration support in their environments.

**USB Embedded Hosts** Jan Axelson 2011-11-01 Developers who want to access USB devices from their embedded systems will find a helpful resource in USB Embedded Hosts: The Developer's Guide. This new book from the author of USB Complete shows how small systems can take advantage of the same wealth of USB devices available to conventional PCs. The book begins with a review of USB host communication protocols. Readers then learn which USB host requirements are relaxed for embedded systems and what new requirements some embedded systems must meet. To help in selecting a development platform, the book explores available hardware and software for USB host communications in small systems. The heart of the book focuses on communicating with USB devices. The topics (with example code) include USB drives, keyboards, virtual serial ports, network bridges, mics, speakers, video cameras, and printers, plus devices that don't fit defined USB classes. Also discussed are systems that support both USB host and device functions. The example code is written for the BeagleBoard-xM open development board using a distribution of Linux targeted to small systems. Also covered is how to use Linux commands and utilities to learn about, monitor, and debug communications with USB devices.

**Oracle SQL\*Plus** Jonathan Gennick 1999 An interactive guide to Oracle's intensive query tool, SQL\* Plus, discusses its powerful features, furnishes a syntax quick reference, and explains how to write and execute script files, generate reports, extract data from the database, utilize new administrative features, query data dictionary tables, and more. Original. (Intermediate)

**Wetland Evaluation Guide** Wayne K. Bond 1992

**Creative Approaches to Problem Solving** Scott G. Isaksen 2010-01-20 Creative Approaches to Problem Solving (CAPS) is a comprehensive text covering the well-known, cited, and used system for problem solving and creativity known as Creative Problem Solving (CPS). CPS is a flexible system used to help individuals and groups solve problems, manage change, and deliver innovation. It provides a framework, language, guidelines, and set of easy-to-use tools for understanding challenges, generating ideas and transforming promising ideas into action. Features and Benefits: - Specific objectives in each chapter for the reader - This provides a clear focus for instruction or independent learning - Practical case study introduced in the beginning of each chapter and then completed as a "rest of the story" toward the end of the chapter - This feature provides an application anchor for the reader - Upgraded mix of graphics - These updated and refreshed graphics include tables, figures, and illustrative images that are designed to provide "pictures" to go along with the word. The aim has been to aid attention, retention, and practical application - Enhanced emphasis on flexible, dynamic process-- Enables users to select and apply CPS tools, components, and stages in a meaningful way that meets their actual needs - A framework for problem solving that has been tested and applied across ages, settings, and cultures-- Readers can apply a common approach to process across many traditional "boundaries" that have limited effectiveness. Creative Approaches to Problem Solving has been (and continues to be) used as a core text for faculty who are teaching courses in Creative Problem Solving or Creativity and Innovation as part of an MBA program, or in Education, a course on Creativity (often as a component of certification or endorsement requirements in gifted education). It is also used as a core text for those enrolled in professional development, continuing education, or executive education programmes.

**Deployment Guide for InfoSphere Guardium** Whei-Jen Chen 2015-04-14 IBM® InfoSphere® Guardium® provides the simplest, most robust solution for data security and data privacy by assuring the integrity of trusted information in your data center. InfoSphere Guardium helps you reduce support costs by automating the entire compliance auditing process across heterogeneous environments. InfoSphere Guardium offers a flexible and scalable solution to support varying customer architecture requirements. This IBM Redbooks® publication provides a guide for deploying the Guardium solutions. This book also provides a roadmap process for implementing an InfoSphere Guardium solution that is based on years of experience and best practices that were collected from various Guardium experts. We describe planning, installation, configuration, monitoring, and administering an InfoSphere Guardium environment. We also describe use cases and how InfoSphere Guardium integrates with other IBM products. The guidance can help you successfully deploy and manage an IBM InfoSphere Guardium system. This book is intended for the system administrators and support staff who are responsible for deploying or supporting an InfoSphere Guardium environment.

**Smarter Modeling of IBM InfoSphere Master Data Management Solutions** Jan-Bernd Bracht 2012-08-09 This IBM® Redbooks® publication presents a development approach for master data management projects, and in particular, those projects based on IBM InfoSphere® MDM Server. The target audience for this book includes Enterprise Architects, Information, Integration and Solution Architects and Designers, Developers, and Product Managers. Master data management combines a set of processes and tools that defines and manages the non-transactional data entities of an organization. Master data management can provide processes for collecting, consolidating, persisting, and distributing this data throughout an organization. IBM InfoSphere Master Data Management Server creates trusted views of master data that can improve applications and business processes. You can use it to gain control over business information by managing and maintaining a complete and accurate view of master data. You also can use InfoSphere MDM Server to extract maximum value from master data by centralizing multiple data domains. InfoSphere MDM Server provides a comprehensive set of prebuilt business services that support a full range of master data management functionality.

**Co-locating Transactional and Data Warehouse Workloads on System z** Mike Ebberts 2010-12-03 As business cycles speed up, many customers gain significant competitive advantage from quicker and more accurate business decision-making by using real data. For many customers, choosing the path to co-locate their transactional and analytical workloads on System z® better leverages their existing investment in hardware, software, and skills. We created a project to address a number of best practice questions on how to manage these newer, analytical type workloads, especially when co-located with traditional transactional workloads. The goal of this IBM® Redbooks® publication is to provide technical guidance and performance trade-offs associated with resource management and potentially DB2® data-sharing in a variety of mixed transactional / data warehouse System z topologies. The term co-location used here and in the rest of the book is specifically defined as the practice of housing both transactional

(OLTP) and data warehouse (analytical) workloads within the same System z configuration. We also assumed that key portions of the transactional and data warehouse databases would reside on DB2 for z/OS®. The databases may or may not reside in a DB2 data-sharing environment; we discuss those pros and cons in this book. The intended audience includes DB2 data warehouse architects and practitioners who are facing choices in resource management and system topologies in the data warehouse arena. This specifically includes Business Intelligence (BI) administrators, DB2 database administrators (DBAs) and z/OS performance administrators / systems programmers. In addition, decision makers and architects can utilize this book to assist in making platform and database topology decisions. The book is divided into four parts. Part I, "Introducing the co-location project" covers the System z value proposition and why one should consider System z as the central platform for their data warehousing / business analytics needs. Some topics are risk avoidance via data consolidation, continuous availability, simplified disaster recovery, IBM Smart Analytics Optimizer, reduced network bandwidth requirements, and the unique virtualization and resource management capabilities of System z LPAR, z/VM® and WLM. Part I also provides some of the common System z co-location topologies along with an explanation of the general pros and cons of each. This would be useful input for an architect to understand where a customer is today and where they might consider moving to. Part II, "Project environment" covers the environment, products, workloads, workload drivers, and data models implemented for this study. The environment consisted of a logically partitioned z10TM 32way, running z/VM, Linux®, and z/OS operating system instances. On those instances we ran products such as z/OS DB2 V9, IBM Cognos® Business Intelligence Version 8.4 for Linux on System z, InfoSphere™ Warehouse for System z, InfoSphere Change Data Capture, z/OS WebSphere® V7, Tivoli® Omegamon for DB2 Performance expert. Utilizing these products we created transactional (OLTP), data warehouse query, and data warehouse refresh workloads. All the workloads were based on an existing web-based transactional Bookstore workload, that's currently utilized for internal testing within the System p® and z labs. While some IBM Cognos BI and ISWz product usage and experiences information is covered in this book, we do not go into the depth typically found in IBM Redbooks publications, since there's another book focused specifically on that

**Test-Driven Java Development** Viktor Farcic 2015-08-27 Invoke TDD principles for end-to-end application development with Java About This Book Explore the most popular TDD tools and frameworks and become more proficient in building applications Create applications with better code design, fewer bugs, and higher test coverage, enabling you to get them to market quickly Implement test-driven programming methods into your development workflows Who This Book Is For If you're an experienced Java developer and want to implement more effective methods of programming systems and applications, then this book is for you. What You Will Learn Explore the tools and frameworks required for effective TDD development Perform the Red-Green-Refactor process efficiently, the pillar around which all other TDD procedures are based Master effective unit testing in isolation from the rest of your code Design simple and easily maintainable codes by implementing different techniques Use mocking frameworks and techniques to easily write and quickly execute tests Develop an application to implement behaviour-driven development in conjunction with unit testing Enable and disable features using Feature Toggles In Detail Test-driven development (TDD) is a development approach that relies on a test-first procedure that emphasises writing a test before writing the necessary code, and then refactoring the code to optimize it. The value of performing TDD with Java, one of the most established programming languages, is to improve the productivity of programmers, the maintainability and performance of code, and develop a deeper understanding of the language and how to employ it effectively. Starting with the basics of TDD and reasons why its adoption is beneficial, this book will take you from the first steps of TDD with Java until you are confident enough to embrace the practice in your day-to-day routine. You'll be guided through setting up tools, frameworks, and the environment you need, and will dive right in to hands-on exercises with the goal of mastering one practice, tool, or framework at a time. You'll learn about the Red-Green-Refactor procedure, how to write unit tests, and how to use them as executable documentation. With this book you'll also discover how to design simple and easily maintainable code, work with mocks, utilise behaviour-driven development, refactor old legacy code, and release a half-finished feature to production with feature toggles. You will finish this book with a deep understanding of the test-driven development methodology and the confidence to apply it to application programming with Java. Style and approach An easy-to-follow, hands-on guide to building applications through effective coding practices. This book covers practical examples by introducing different problems, each one designed as a learning exercise to help you understand each aspect of TDD.

**Eliciting and Analyzing Expert Judgment** Mary A. Meyer 2001-01-01 Expert judgment is invaluable for assessing products, systems, and situations for which measurements or test results are sparse or nonexistent. Eliciting and Analyzing Expert Judgment: A Practical Guide takes the reader step by step through the techniques of eliciting and analyzing expert judgment, with special attention given to helping the reader develop elicitation methods and tools adaptable to a variety of unique situations and work areas. The analysis procedures presented in the book may require a basic understanding of statistics and probabilities, but the authors have provided detailed explanations of the techniques used and have taken special care to define all statistical jargon. Originally published in 1991, this book is designed so that those familiar with the use of expert judgment can quickly find the material appropriate for their advanced background.

**Smarter Business: Dynamic Information with IBM InfoSphere Data Replication CDC** Chuck Ballard 2012-03-12 To make better informed business decisions, better serve clients, and increase operational efficiencies, you must be aware of changes to key data as they occur. In addition, you must enable the immediate delivery of this information to the people and processes that need to act upon it. This ability to sense and respond to data changes is fundamental to dynamic warehousing, master data management, and many other key initiatives. A major challenge in providing this type of environment is determining how to tie all the independent systems together and process the immense data flow requirements. IBM® InfoSphere® Change Data Capture (InfoSphere CDC) can respond to that challenge, providing programming-free data integration, and eliminating redundant data transfer, to minimize the impact on production systems. In this IBM Redbooks® publication, we show you examples of how InfoSphere CDC can be used to implement integrated systems, to keep those systems updated immediately as changes occur, and to use your existing infrastructure and scale up as your workload grows. InfoSphere CDC can also enhance your investment in other software, such as IBM DataStage® and IBM QualityStage®, IBM InfoSphere Warehouse, and IBM InfoSphere Master Data Management Server, enabling real-time and event-driven processes. Enable the integration of your critical data and make it immediately available as your business needs it.

**IBM WebSphere Information Analyzer and Data Quality Assessment** Nagraj Alur 2007 IBM Information Server is a revolutionary new software platform that helps organizations derive more value from the complex heterogeneous information that is spread across their systems. It enables organizations to integrate disparate data and deliver trusted information wherever and whenever needed, in line and in

context, to specific people, applications, and processes. IBM WebSphere Information Analyzer is a data profiling and analysis tool that is a critical component of IBM Information Server. It is designed to help business and data analysts understand the content, quality, and structure of their data sources by automating the data discovery process. Bundled with IBM WebSphere Information Analyzer is AuditStage, a data rule monitoring tool that is designed to help business and data analysts validate data and assess ongoing data quality trends. This book describes a usage scenario that covers all dimensions of profiling, rule building, deployment, and quality monitoring through a data integration life cycle.

**BMC Control-M 7** Qiang Ding 2012-10-10 Master one of the world's most powerful enterprise workload automation tools? BMC Control-M 7 - using this book and eBook. **IBM Cloud Private System Administrator's Guide** Ahmed Azraq 2019-05-13 IBM® Cloud Private is an application platform for developing and managing containerized applications across hybrid cloud environments, on-premises and public clouds. It is an integrated environment for managing containers that includes the container orchestrator Kubernetes, a private image registry, a management console, and monitoring frameworks. This IBM Redbooks covers tasks performed by IBM Cloud Private system administrators such as installation for high availability, configuration, backup and restore, using persistent volumes, networking, security, logging and monitoring. Istio integration, troubleshooting and so on. As part of this project we also developed several code examples and you can download those from the IBM Redbooks GitHub location: <https://github.com/IBMRedbooks>. The authors team has many years of experience in implementing IBM Cloud Private and other cloud solutions in production environments, so throughout this document we took the approach of providing you the recommended practices in those areas. If you are an IBM Cloud Private system administrator, this book is for you. If you are developing applications on IBM Cloud Private, you can see the IBM Redbooks publication IBM Cloud Private Application Developer's Guide, SG24-8441.

**Apache Kafka** 2018-10-30 IoT Apache Kafka Apache Kafka is a distributed streaming platform. It is designed to handle real-time data feeds and is used for building data pipelines. It is a key component of the Apache ecosystem. This book covers the basics of Apache Kafka, including its architecture, data models, and APIs. It also provides a detailed guide to using Apache Kafka for building data pipelines. The book is suitable for both beginners and experienced developers. **Apache Kafka** is a distributed streaming platform. It is designed to handle real-time data feeds and is used for building data pipelines. It is a key component of the Apache ecosystem. This book covers the basics of Apache Kafka, including its architecture, data models, and APIs. It also provides a detailed guide to using Apache Kafka for building data pipelines. The book is suitable for both beginners and experienced developers.

**Pentaho 3.2 Data Integration** María Carina Roldán 2010-04-09 "Pentaho Data Integration (a.k.a. Kettle) is a full-featured open source ETL (Extract, Transform, and Load) solution. Although PDI is a feature-rich tool, effectively capturing, manipulating, cleansing, transferring, and loading data can get complicated. This book is full of practical examples that will help you to take advantage of Pentaho Data Integration's graphical, drag-and-drop design environment. You will quickly get started with Pentaho Data Integration by following the step-by-step guidance in this book. The useful tips in this book will encourage you to exploit powerful features of Pentaho Data Integration and perform ETL operations with ease."--Resource description p.

**Implementing an Advanced Application Using Processes, Rules, Events, and Reports** Ahmed Abdel-Gayed 2012-10-12 In this IBM® Redbooks® publication we describe how to build an advanced business application from end to end. We use a fictional scenario to define the application, document the deployment methodology, and confirm the roles needed to support its development and deployment. Through step-by-step instructions you learn how to: - Define the project lifecycle using IBM Solution for Collaborative Lifecycle Management - Build a logical and physical data model in IBM InfoSphere® Data Architect - Confirm business rules and business events using IBM WebSphere® Operational Decision Management - Map a business process and mediation using IBM Business Process Manager - Use IBM Cognos® Business Intelligence to develop business insight In addition, we articulate a testing strategy using IBM Rational® Quality Manager and deployment options using IBM Workload Deployer. Taken together, this book provides comprehensive guidance for building and testing a solution using core IBM Rational, Information Management, WebSphere, Cognos and Business Process Management software. It seeks to demystify the notion that developing and deploying advanced solutions is taxing. This book will appeal to IT architects and specialists who seek straightforward guidance on how to build comprehensive solutions. They will be able to adapt these materials to kick-start their own end-to-end projects.

**Red Hat OpenShift V4.3 on IBM Power Systems Reference Guide** Dino Quintero 2020-09-10 This IBM® Redpaper publication describes how to deploy Red Hat OpenShift V4.3 on IBM Power Systems servers. This book presents reference architectures for deployment, initial sizing guidelines for server, storage, and IBM Cloud® Paks. Moreover, this publication delivers information about initial supported Power System configurations for Red Hat OpenShift V4.3 deployment (bare metal, IBM PowerVM® LE LPARs, and others). This book serves as a guide for how to deploy Red Hat OpenShift V4.3 and provide start guidelines and recommended practices for implementing it on Power Systems and completing it with the supported IBM Cloud Paks. The publication addresses topics for developers, IT architects, IT specialists, sellers, and anyone who wants to implement a Red Hat OpenShift V4.3 and IBM Cloud Paks on IBM Power Systems. This book also provides technical content to transfer how-to skills to the support teams, and solution guidance to the sales team. This book compliments the documentation that is available at IBM Knowledge Center, and also aligns with the educational offerings that are provided by the IBM Systems Technical Education (SSE).

**A Career Exploration and Job Guide by Field** Tony Kelbrat 2022-07-28 This is a career exploration and job-finder book for many different fields. I provide information, job websites and organizations for many occupations. Beyond this book, I created job books for occupations like medical, business, computer, media, transportation, teaching, liberal arts, etc. The 84 volumes are as follows: Volume 1. What Do I Want to do With my Life? 1 Volume 2. What Do I Want to do With my Life? 2 Volume 3. A Career Ideas Guide Volume 4. A Psychology-Aptitude-Career Test Guide Volume 5. A Job-Life Purpose Question Guide Volume 6. A Career Exploration Guide 1 Volume 7. A Career Exploration Guide 2 Volume 8. A Career Exploration Guide 3 Volume 9. A Career Exploration Guide 4 Volume 10. A Career Exploration Website Guide 1 Volume 11. A Career Exploration Website Guide 2 Volume 12. Career Knowledge for Young People Volume 13. Career Information at careerprofiles.info Volume 14. A Job Idea Guide 1 Volume 15. A Job Idea Guide 2 Volume 16. A Canada Career Exploration Guide Volume 17. A Psychology Career Exploration Guide Volume 18. An Occupational List Guide 1 Volume 19. An Occupational List Guide 2 Volume 20. An Occupational List Guide 3 Volume 21. An Occupational List Guide 4 Volume 22. An Occupational List Guide 5 Volume 23. Industry Classification Guides Volume 24. A Career and College Idea Website Guide Volume 25. Specific Profession Websites at workblogging.blogspot.ca Volume 26. Job and Career Ideas from vocationaltraininghq Volume 27. The Job Fields, Occupations and Professions 1 Volume 28. The Job Fields, Occupations and Professions 2 Volume 29. Job Fields, Occupations and Professions from the Phonebook Volume 30. Occupational Fields by Category Volume 31. U.S. Websites by Category with Career Ideas Volume 32. Job Ideas and Career Articles Volume 33. A Career Change Guide Volume 34. A Career Change Website Guide Volume 35. An Older Person Job Guide Volume 36. A Job Website Guide by Field and Country at workable Volume 37. A Niche Job Website Guide 1 Volume 38. A Niche Job Website Guide 2 Volume 39. nichejobs.com Created many Niche Job Websites, Some Don't Work Volume 40. Job Websites by Field at career.fsu.edu Volume 41. Many Job Boards by Field at betterteam Volume 42. A Job Website Guide

by Field from jobstars.com/niche-job-sites Volume 43. Career Fairs and Events by Industry at jobstars.com/industry-events-conferences Volume 44. Job Websites by Field from the Dead Website jobsourcenetwork Volume 45. Job Websites in Some ...

**IBM InfoSphere Information Server Installation and Configuration Guide** Patrick (Danny) Owen 2013-01-14 This IBM® Redpaper™ publication provides suggestions, hints and tips, directions, installation steps, checklists of prerequisites, and configuration information collected from several IBM InfoSphere® Information Server experts. It is intended to minimize the time required to successfully install and configure InfoSphere Information Server. The information in this document is based on field experiences of experts who have implemented InfoSphere Information Server. As such, it is intended to supplement, and not replace, the product documentation. Discover the proven choices and combinations for installing InfoSphere Information Server that have been the most successful for the IBM InfoSphere Center Of Excellence. This paper includes a broad range of customer needs and experiences, with a focus on the following areas: InfoSphere Information Server architecture Checklists Prerequisites Configuration choices that work well together This paper is based on thousands of hours of production systems experience, from which you can now reap significant benefits.

**The guide to IT contracting** Samuel Blankson 2007-12-01

*Business Intelligence Demystified* Anoop Kumar V K 2021-09-25 Clear your doubts about Business Intelligence and start your new journey KEY FEATURES ● Includes successful methods and innovative ideas to achieve success with BI. ● Vendor-neutral, unbiased, and based on experience. ● Highlights practical challenges in BI journeys. ● Covers financial aspects along with technical aspects. ● Showcases multiple BI organization models and the structure of BI teams. DESCRIPTION The book demystifies misconceptions and misinformation about BI. It provides clarity to almost everything related to BI in a simplified and unbiased way. It covers topics right from the definition of BI, terms used in the BI definition, coinage of BI, details of the different main uses of BI, processes that support the main uses, side benefits, and the level of importance of BI, various types of BI based on various parameters, main phases in the BI journey and the challenges faced in each of the phases in the BI journey. It clarifies myths about self-service BI and real-time BI. The book covers the structure of a typical internal BI team, BI organizational models, and the main roles in BI. It also clarifies the doubts around roles in BI. It explores the different components that add to the cost of BI and explains how to calculate the total cost of the ownership of BI and ROI for BI. It covers several ideas, including unconventional ideas to achieve BI success and also learn about IBI. It explains the different types of BI architectures, commonly used technologies, tools, and concepts in BI and provides clarity about the boundary of BI w.r.t technologies, tools, and concepts. The book helps you lay a very strong foundation and provides the right perspective about BI. It enables you to start or restart your journey with BI. WHAT YOU WILL LEARN ● Builds a strong conceptual foundation in BI. ● Gives the right perspective and clarity on

BI uses, challenges, and architectures. ● Enables you to make the right decisions on the BI structure, organization model, and budget. ● Explains which type of BI solution is required for your business. ● Applies successful BI ideas. WHO THIS BOOK IS FOR This book is a must-read for business managers, BI aspirants, CxOs, and all those who want to drive the business value with data-driven insights. TABLE OF CONTENTS 1. What is Business Intelligence? 2. Why do Businesses need BI? 3. Types of Business Intelligence 4. Challenges in Business Intelligence 5. Roles in Business Intelligence 6. Financials of Business Intelligence 7. Ideas for Success with BI 8. Introduction to IBI 9. BI Architectures 10. Demystify Tech, Tools, and Concepts in BI

*New Trends in Data Warehousing and Data Analysis* Stanisław Kozielski 2008-11-21 Most of modern enterprises, institutions, and organizations rely on knowledge-based management systems. In these systems, knowledge is gained from data analysis. Today, knowledge-based management systems include data warehouses as their core components. Data integrated in a data warehouse are analyzed by the so-called On-Line Analytical Processing (OLAP) applications designed to discover trends, patterns of behavior, and anomalies as well as finding dependencies between data. Massive amounts of integrated data and the complexity of integrated data coming from many different sources make data integration and processing challenging. *New Trends in Data Warehousing and Data Analysis* brings together the most recent research and practical achievements in the DW and OLAP technologies. It provides an up-to-date bibliography of published works and the resource of research achievements. Finally, the book assists in the dissemination of knowledge in the field of advanced DW and OLAP.

**Serial Port Complete: The Developer's Guide, Second Edition** Jan Axelson 2007-12-01

When PCs and peripherals began showing up with USB ports in the late 1990s, many predicted that legacy serial (COM) ports would soon be obsolete. The predictions were wrong. While most standard peripherals now use USB, serial ports are the interface of choice for devices that require simple programming, long cables, operation in harsh environments, or basic networking capabilities. Serial ports are more versatile than ever due to developments such as USB virtual COM ports, the .NET SerialPort class, enhanced microcontroller USARTs, and new wireless interfaces. *Serial Port Complete Second Edition* is a completely revised and updated guide to programming and interfacing to COM ports, USB virtual COM ports, and serial ports in embedded systems. Author Jan Axelson shows how to: § Access COM ports using the SerialPort class in Microsoft's .NET Framework. § Program embedded systems for serial-port communications. § Design and program USB devices accessed as virtual COM ports. § Upgrade RS-232 designs to USB with no changes to host software or device firmware. § Design circuits for electrically harsh environments. § Create serial networks of embedded systems and PCs. § Use serial ports in wireless links. Example code is provided for PCs and embedded systems in both Basic and C/C#. The author maintains a website with articles, program code, and other links of interest to developers of serial-port applications (janaxelson.com).