IBM

James W. Cortada

Building IBM Emerson W. Pugh,1995 No company of the twentieth century achieved greater success and engendered more admiration, respect, envy, fear, and hatred than IBM. Building IBM tells the story of that company, how it was formed, how it grew, and how it shaped and dominated the information processing industry. Emerson Pugh presents substantial new material about the company in the period before 1945 as well as a new interpretation of the postwar era. Granted unrestricted access to IBM's archival records and with no constraints on the way he chose to treat the information they contained, Pugh dispels many widely held myths about IBM and its leaders and provides new insights on the origins and development of the computer industry. Pugh begins the story with Herman Hollerith's invention of punched-card machines used for tabulating the U.S. Census of 1890, showing how Hollerith's inventions and the business he established provided the primary basis for IBM. He tells why Hollerith merged his company in 1911 with two other companies to create the Computing-Tabulating-Recording Company, which changed its name in 1924 to International Business Machines. Thomas J. Watson, who was hired in 1914 to manage the merged companies, exhibited remarkable technological insight and leadership, in addition to his widely heralded salesmanship, to build Hollerith's business into a virtual monopoly of the rapidly growing punched-card equipment business. The fascinating inside story of the transfer of authority from the senior Watson to his older son, Thomas J. Watson Jr., and the company's rapid domination of the computer industry occupy the latter half of the book. In two final chapters, Pugh examines conditions and events of the 1970s and 1980s and identifies the underlying causes of the severe probems IBM experienced in the 1990s. - Publisher.

Understanding IBM Workplace Strategy & Products Ron Sebastian,Douglas W. Spencer,2005-10 Annotation IBM Workplace represents an entire portfolio of IBM products, new and existing, that focuses on increasing people's productivity in a new way. In this book, IBM Software Live! Program Director Douglas Spencer and Senior Lotus Consultant Ron Sebastian start with an introduction to people productivity in the context of IBM's On Demand Business vision. Then the IBM Workplace strategy and products are described. You will see how the underlying componentized software infrastructure of IBM Workplace provides the flexibility businesses need in the emerging on demand world. You will see how many users without traditional desks such as an outbound sales force, factory floor staff, airline pilots, etc. can collaborate with others boosting the productivity of the entire organization, trading partners, and customers. The authors then provide an overview of the key product lines that implement the IBM Workplace vision including IBM Workplace, WebSphere Portal, Lotus Notes and Domino, and WebSphere Everyplace. You will learn how the new IBM Workplace client technology for these products combines the rich user experience of client/server with the cost characteristics of Web-based applications, giving users the best of both worlds. In the final chapter, the authors explore industry-specific people productivity solutions tailored for the needs of specific industries including aerospace, defense, automotive, banking, financial markets, consumer products, electronics, utilities, government, health care, insurance, life sciences, retail, and telecommunications, etc. The Foreword, by IBM Software Group General Manager of Workplace, Portal, and Collaboration Software, Michael D. Rhodin, provides an insider's perspective on the thinking behind IBM Workplace. To help you stay current, this book comes with your personal password for accessing the companion Web site which offers up-to-the-minute IBM Workplace news, More on the Web links, and additional resources.

IBM Platform Computing Solutions Dino Quintero,Scott Denham,Rodrigo Garcia da Silva,Alberto Ortiz,Aline Guedes Pinto,Atsumori Sasaki,Roger Tucker,Joanna Wong,Elsie Ramos,IBM Redbooks,2012-12-07 This IBM® Platform Computing Solutions Redbooks® publication is the first book to describe each of the available offerings that are part of the IBM portfolio of Cloud, analytics, and High Performance Computing (HPC) solutions for our clients. This IBM Redbooks publication delivers descriptions of the available offerings from IBM Platform Computing that address challenges for our clients in each industry. We include a few implementation and testing scenarios with selected solutions. This publication helps

strengthen the position of IBM Platform Computing solutions with a well-defined and documented deployment model within an IBM System x® environment. This deployment model offers clients a planned foundation for dynamic cloud infrastructure, provisioning, large-scale parallel HPC application development, cluster management, and grid applications. This IBM publication is targeted to IT specialists, IT architects, support personnel, and clients. This book is intended for anyone who wants information about how IBM Platform Computing solutions use IBM to provide a wide array of client solutions.

IBM's 360 and Early 370 Systems Emerson W. Pugh,Lyle R. Johnson,John H. Palmer,1991 No product offering has had greater impact on the computer industry than the IBM System/360. This book describes the creation of this remarkable system and the developments it spawned, including its successor, System/370.

IBM James W. Cortada,2019 A history of one of the most influential American companies of the last century. For decades, IBM shaped the way the world did business. IBM products were in every large organization, and IBM corporate culture established a management style that was imitated by companies around the globe. It was Big Blue, an icon. And yet over the years, IBM has gone through both failure and success, surviving flatlining revenue and forced reinvention. The company almost went out of business in the early 1990s, then came back strong with new business strategies and an emphasis on artificial intelligence. In this authoritative, monumental history, James Cortada tells the story of one of the most influential American companies of the last century. Cortada, a historian who worked at IBM for many years, describes IBM's technology breakthroughs, including the development of the punch card (used for automatic tabulation in the 1890 census), the calculation and printing of the first Social Security checks in the 1930s, the introduction of the PC to a mass audience in the 1980s, and the company's shift in focus from hardware to software. He discusses IBM's business culture and its orientation toward employees and customers; its global expansion; regulatory and legal issues, including antitrust litigation; and the track records of its CEOs. The secret to IBM's unequalled longevity in the information technology market, Cortada shows, is its capacity to adapt to changing circumstances and technologies.

IBM SmartCloud: Building a Cloud Enabled Data Center Pietro Iannucci,Manav Gupta,IBM Redbooks,2013-05-21 Organizations are looking for ways to get more out of their already strained IT infrastructure as they face new technological and economic pressures. They are also trying to satisfy a broad set of users (internal and external to the enterprise) who demand improvements in their quality of service (QoS), regardless of increases in the number of users and applications. Cloud computing offers attractive opportunities to reduce costs, accelerate development, and increase the flexibility of the IT infrastructure, applications, and services. Infrastructure as a service (IaaS) is the typical starting point for most organizations when moving to a cloud computing environment. IaaS can be used for the delivery of resources such as compute, storage, and network services through a self-service portal. With IaaS, IT services are delivered as a subscription service, eliminating up-front costs and driving down ongoing support costs. IBM® has defined the Cloud Computing Reference Architecture (CCRA) based on years of experience of working with customers who have implemented cloud-computing solutions. The IBM CCRA is a blueprint or guide for architecting cloud-computing implementations. This IBM RedguideTM publication highlights the Cloud Enabled Data Center adoption pattern and describes how you can use it to define an IaaS solution. This guide is intended for chief technology officers, data center architects, IT architects, and application architects who want to understand the cloud-computing infrastructure necessary to support their applications and services by using an IaaS solution. It explains the technical and business benefits of a Cloud Enabled Data Center solution. It introduces a Cloud Enabled Data Center maturity model where each maturity level corresponds to an increase in the degree of automation and the cloud-computing capabilities that are available. In addition, this guide describes the architectural framework provided by the IBM CCRA and explains details about the Cloud Enabled Data Center adoption pattern.

IBM Data Warehousing Michael L. Gonzales,2003-02-25 Reviews planning and designing architecture and implementing the data warehouse. Includes discussions on how and why to apply IBM tools. Offers tips, tricks, and workarounds to ensure maximum performance. Companion Web site includes technical notes, product updates, corrections, and links to relevant material and training.

IBM James W. Cortada,2023-08-01 A history of one of the most influential American companies of the last century. For decades, IBM shaped the way the world did business. IBM products were in every large organization, and IBM corporate culture established a management style that was imitated by companies around the globe. It was "Big Blue, " an icon. And yet over the years, IBM has gone through both failure and success, surviving flatlining revenue and forced reinvention. The company almost went out of business in the early 1990s, then came back strong with new business strategies and an emphasis on artificial intelligence. In this authoritative, monumental history, James Cortada tells the story of one of the most influential American companies of the last century. Cortada, a historian who worked at IBM for many years, describes IBM's technology breakthroughs, including the development of the punch card (used for automatic tabulation in the 1890 census), the calculation and printing of the first Social Security checks in the 1930s, the introduction of the PC to a mass audience in the 1980s, and the company's shift in focus from hardware to software. He discusses IBM's business culture and its orientation toward employees and customers; its global expansion; regulatory and legal issues, including antitrust litigation; and the track records of its CEOs. The secret to IBM's unequalled longevity in the information technology market, Cortada shows, is its capacity to adapt to changing circumstances and technologies.

IBM z15 Technical Introduction Bill White,Octavian Lascu,John Troy,Jannie Houlbjerg,Frank Packheiser,Paul Schouten,Kazuhiro Nakajima,Anna Shugol,Hervey Kamga,IBM Redbooks,2021-05-03 This IBM® Redbooks® publication introduces the latest member of the IBM Z® platform, the IBM z15TM. It includes information about the Z environment and how it helps integrate data and transactions more securely. It also provides insight for faster and more accurate business decisions. The z15 is a state-of-the-art data and transaction system that delivers advanced capabilities, which are vital to any digital transformation. The z15 is designed for enhanced modularity, and occupies an industry-standard footprint. It is offered as a single air-cooled 19-inch frame called the z15 T02, or as a multi-frame (1 to 4 19-inch frames) called the z15 T01. Both z15 models excel at the following tasks:: Using hybrid multicloud integration services Securing and protecting data with encryption everywhere Providing resilience with key to zero downtime Transforming a transactional platform into a data powerhouse Getting more out of the platform with operational analytics Accelerating digital transformation with agile service delivery Revolutionizing business processes Blending open source and IBM Z technologies This book explains how this system uses innovations and traditional Z strengths to satisfy growing demand for cloud, analytics, and open source technologies. With the z15 as the base, applications can run in a trusted, reliable, and secure environment that improves operations and lessens business risk.

IBM z13 and IBM z13s Technical Introduction Bill White,Cecilia A De Leon,Edzard Hoogerbrug,Ewerson Palacio,Franco Pinto,Barbara Sannerud,Martin Soellig,John Troy,Jin J Yang,IBM Redbooks,2017-01-10 This IBM® Redbooks® publication introduces the latest IBM z SystemsTM platforms, the IBM z13TM and IBM z13s. It includes information about the z Systems environment and how it can help integrate data, transactions, and insight for faster and more accurate business decisions. The z13 and z13s are state-of-the-art data and transaction systems that deliver advanced capabilities that are vital to modern IT infrastructures. These capabilities include: Accelerated data and transaction serving Integrated analytics Access to the API economy Agile development and operations Efficient, scalable, and secure cloud services End-to-end security for data and transactions This book explains how these systems use both new innovations and traditional z Systems strengths to satisfy growing demand for cloud, analytics, and mobile applications. With one of these z Systems platforms as the base, applications can run in a trusted, reliable, and secure environment that both improves operations and lessens business risk.

IBM CloudBurst on System x Byron Braswell,Armando Lemos,Rafael Moleiro,Paolo Ottaviano,Ferenc Rada,Maciej Widomski,IBM Redbooks,2012-05-04 This IBM® Redbooks® publication gives an overview of Cloud solutions, followed by detailed information and usage scenarios for IBM CloudBurst® in a System x® environment. Cloud computing can be defined as a style of computing in which dynamically scalable resources, such as CPU, storage, or bandwidth, are provided as a service over the Internet. Cloud computing represents a massively scalable, self-service delivery model where processing, storage, networking, and applications can be accessed as services over the Internet. Enterprises can adopt cloud models to improve employee productivity, deploy new products and services faster and reduce operating costs—starting with workloads, such as development and test, virtual desktop, collaboration, and analytics. IBM provides a scalable variety of cloud solutions to meet these needs. This IBM Redbooks publication helps you to tailor an IBM CloudBurst installation on System x to meet virtualized computing requirements in a private cloud environment. This book is intended for IT support personnel who are responsible for customizing IBM CloudBurst to meet business cloud computing objectives.

IBM z14 (3906) Technical Guide Octavian Lascu,IBM Redbooks,2018-12-17 This IBM® Redbooks® publication describes the new member of the IBM Z® family, IBM z14TM. IBM z14 is the trusted enterprise platform for pervasive encryption, integrating data, transactions, and insights into the data. A data-centric infrastructure must always be available with a 99.999% or better availability, have flawless data integrity, and be secured from misuse. It also must be an integrated infrastructure that can support new applications. Finally, it must have integrated capabilities that can provide new mobile capabilities with real-time analytics that are delivered by a secure cloud infrastructure. IBM z14 servers are designed with improved scalability, performance, security, resiliency, availability, and virtualization. The superscalar design allows z14 servers to deliver a record level of capacity over the prior IBM Z platforms. In its maximum configuration, z14 is powered by up to 170 client characterizable microprocessors (cores) running at 5.2 GHz. This configuration can run more than 146,000 million instructions per second (MIPS) and up to 32 TB of client memory. The IBM z14 Model M05 is estimated to provide up to 35% more total system capacity than the IBM z13® Model NE1. This Redbooks publication provides information about IBM z14 and its functions, features, and associated software support. More information is offered in areas that are relevant to technical planning. It is intended for systems engineers, consultants, planners, and anyone who wants to understand the IBM Z servers functions and plan for their usage. It is intended as an introduction to mainframes. Readers are expected to be generally familiar with existing IBM Z technology and terminology.

ABCs of IBM z/OS System Programming Karan Singh,Rui Feio,Oerjan Lundgren,Bob McCormack,Rita Pleus,Paul Rogers,IBM Redbooks,2014-08-12 The ABCs of IBM® z/OS® System Programming is an 11-volume collection that provides an introduction to the z/OS operating system and the hardware architecture. Whether you are a beginner or an experienced system programmer, the ABCs collection provides the information that you need to start your research into z/OS and related subjects. If you want to become more familiar with z/OS in your current environment or if you are evaluating platforms to consolidate your e-business applications, the ABCs collection can serve as a powerful technical tool. Following are the contents of the volumes: Volume 1: Introduction to z/OS and storage concepts, TSO/E, ISPF, JCL, SDSF, and z/OS delivery and installation Volume 2: z/OS implementation and daily maintenance, defining subsystems, JES2 and JES3, LPA, LNKLST, authorized libraries, IBM Language Environment®, and SMP/E Volume 3: Introduction to DFSMS, data set basics, storage management hardware and software, VSAM, System-managed storage, catalogs, and DFSMStvs Volume 4: Communication Server, TCP/IP, and IBM VTAM® Volume 5: Base and IBM Parallel Sysplex®, System Logger, Resource Recovery Services (RRS), global resource serialization (GRS), z/OS system operations, automatic restart management (ARM), and IBM Geographically Dispersed Parallel SysplexTM (IBM GDPS®) Volume 6: Introduction to security, IBM RACF®, digital

certificates and public key infrastructure (PKI), Kerberos, cryptography and IBM z9® integrated cryptography, Lightweight Directory Access Protocol (LDAP), and Enterprise Identity Mapping (EIM) Volume 7: Printing in a z/OS environment, Infoprint Server, and Infoprint Central Volume 8: An introduction to z/OS problem diagnosis Volume 9: z/OS UNIX System Services Volume 10: Introduction to IBM z/Architecture®, IBM System z® processor design, System z connectivity, logical partition (LPAR) concepts, hardware configuration definition (HCD), and Hardware Management Console (HMC) Volume 11: Capacity planning, performance management, Workload Manager (WLM), IBM Resource Measurement FacilityTM (RMFTM), and System Management Facilities (SMF)

End to End Performance Management on IBM i Hernando Bedoya,Mark Roy,Nandoo Neerukonda,Petri Nuutinen,IBM Redbooks,2009-11-23 Monitoring and managing your system's performance is critical to ensure that you are keeping pace with the changing demands of your business. To respond to business changes effectively, your system must change too. Managing your system, at first glance, might seem like just another time-consuming job. But the investment soon pays off because the system runs more efficiently, and this is reflected in your business. It is efficient because changes are planned and managed. Managing performance of any system can be a complex task that requires a thorough understanding of that system's hardware and software. IBM® i is an industry leader in the area of performance management and has many qualities that are not found in other systems, such as: - Unparalleled performance metrics - Always-on collection of metrics - Graphical investigation of performance data While understanding all the different processes that affect system performance can be challenging and resolving performance problems requires the effective use of a large suite of tools, the functions offered by IBM i are intended to make this job easier for users. This IBM Redbooks® publication explains the tasks and rich tools associated with performance management on IBM i.

Security Guide for IBM i V6.1 Jim Cook,Juan Carlos Cantalupo,MinHoon Lee,IBM Redbooks,2009-05-29 The IBM® i operation system (formerly IBM i5/OS®) is considered one of the most secure systems in the industry. From the beginning, security was designed as an integral part of the system. The System i® platform provides a rich set of security features and services that pertain to the goals of authentication, authorization, integrity, confidentiality, and auditing. However, if an IBM Client does not know that a service, such as a virtual private network (VPN) or hardware cryptographic support, exists on the system, it will not use it. In addition, there are more and more security auditors and consultants who are in charge of implementing corporate security policies in an organization. In many cases, they are not familiar with the IBM i operating system, but must understand the security services that are available. This IBM Redbooks® publication guides you through the broad range of native security features that are available within IBM i Version and release level 6.1. This book is intended for security auditors and consultants, IBM System Specialists, Business Partners, and clients to help you answer first-level questions concerning the security features that are available under IBM. The focus in this publication is the integration of IBM 6.1 enhancements into the range of security facilities available within IBM i up through Version release level 6.1. IBM i 6.1 security enhancements include: - Extended IBM i password rules and closer affinity between normal user IBM i operating system user profiles and IBM service tools user profiles - Encrypted disk data within a user Auxiliary Storage Pool (ASP) - Tape data save and restore encryption under control of the Backup Recovery and Media Services for i5/OS (BRMS) product, 5761-BR1 - Networking security enhancements including additional control of Secure Sockets Layer (SSL) encryption rules and greatly expanded IP intrusion detection protection and actions. DB2® for i5/OS built-in column encryption expanded to include support of the Advanced Encryption Standard (AES) encryption algorithm to the already available Rivest Cipher 2 (RC2) and Triple DES (Data Encryption Standard) (TDES) encryption algorithms. The IBM i V5R4 level IBM Redbooks publication IBM System i Security Guide for IBM i5/OS Version 5 Release 4, SG24-6668, remains available.

IBM z/OS V2R2: Operations Keith Winnard,Natalia Barros,Jose Gilberto Biondo Jr,Wilson de Figueiredo,Paul Robert Hering,Jaqueline

Mourao,Ewerton Waki,IBM Redbooks,2017-01-10 This IBM® Redbooks® publication helps you to become familiar with the technical changes that were introduced into the Operations areas with IBM z/OS® V2R2. This book includes the following chapters: - Chapter 1, SMFLIMxx parmlib member on page 1 describes how to set up job cancel decisions and region and MEMLIMIT values, based on the job and its environment. - Chapter 2, REGIONX on page 5 describes the new REGIONX JCL keyword that supports two storage specifications and with which the user can specify values for their below-the-line storage and above-the-line storage needs. - Chapter 3, Two million open data sets on page 9 describes the ability to have open up to 2,000,000 data sets at a time by address spaces while reducing the allocation time for data sets. - Chapter 4, Dynamic APF SMF Record on page 11 describes the new SMF record that is used to track dynamic APF changes. - Chapter 5, Initial program load device number and volume on page 13 describes the new message that is used to identify the initial program load (IPL) device and volume. - Chapter 6, Infoprint enhancements on page 15 describes the enhancements that were made to Infoprint in z/OS V2R2. - Chapter 7, GRS EQDQ Monitor on page 19 describes the monitor capture diagnostics for problem determination while minimizing the effect to system performance. - Chapter 8, BCPii System Management Facilities recording on page 23 describes the record changes to hardware. - Chapter 9, Provisioning based on CPU consumption on page 25 describes the provisioning that is dynamically based on CPU consumption. - Chapter 10, System REXX enhancements on page 31 describes the new functions and interfaces of System Rexx. This book is one of a series of IBM Redbooks publications that take a modular approach to providing information about the updates that are included with z/OS V2R2. This approach has the following goals: - Provide modular content - Group the technical changes into a topic - Provide a more streamlined way of finding relevant information that is based on the topic We hope you find this approach useful and we welcome your feedback.

IBM Software-Defined Storage Guide Larry Coyne,Joe Dain,Eric Forestier,Patrizia Guaitani,Robert Haas,Christopher D. Maestas,Antoine Maille,Tony Pearson,Brian Sherman,Christopher Vollmar,IBM Redbooks,2018-07-21 Today, new business models in the marketplace coexist with traditional ones and their well-established IT architectures. They generate new business needs and new IT requirements that can only be satisfied by new service models and new technological approaches. These changes are reshaping traditional IT concepts. Cloud in its three main variants (Public, Hybrid, and Private) represents the major and most viable answer to those IT requirements, and software-defined infrastructure (SDI) is its major technological enabler. IBM® technology, with its rich and complete set of storage hardware and software products, supports SDI both in an open standard framework and in other vendors' environments. IBM services are able to deliver solutions to the customers with their extensive knowledge of the topic and the experiences gained in partnership with clients. This IBM RedpaperTM publication focuses on software-defined storage (SDS) and IBM Storage Systems product offerings for software-defined environments (SDEs). It also provides use case examples across various industries that cover different client needs, proposed solutions, and results. This paper can help you to understand current organizational capabilities and challenges, and to identify specific business objectives to be achieved by implementing an SDS solution in your enterprise.

Systems of Insight for Digital Transformation: Using IBM Operational Decision Manager Advanced and Predictive Analytics Whei-Jen Chen,Rajeev Kamath,Alexander Kelly,Hector H. Diaz Lopez,Matthew Roberts,Yee Pin Yheng,IBM Redbooks,2015-12-03 Systems of record (SORs) are engines that generates value for your business. Systems of engagement (SOE) are always evolving and generating new customer-centric experiences and new opportunities to capitalize on the value in the systems of record. The highest value is gained when systems of record and systems of engagement are brought together to deliver insight. Systems of insight (SOI) monitor and analyze what is going on with various behaviors in the systems of engagement and information being stored or transacted in the systems of record. SOIs seek new opportunities, risks, and operational behavior that needs to be reported or have action taken to optimize business outcomes. Systems of insight are at the core of the Digital Experience,

which tries to derive insights from the enormous amount of data generated by automated processes and customer interactions. Systems of Insight can also provide the ability to apply analytics and rules to real-time data as it flows within, throughout, and beyond the enterprise (applications, databases, mobile, social, Internet of Things) to gain the wanted insight. Deriving this insight is a key step toward being able to make the best decisions and take the most appropriate actions. Examples of such actions are to improve the number of satisfied clients, identify clients at risk of leaving and incentivize them to stay loyal, identify patterns of risk or fraudulent behavior and take action to minimize it as early as possible, and detect patterns of behavior in operational systems and transportation that lead to failures, delays, and maintenance and take early action to minimize risks and costs. IBM® Operational Decision Manager is a decision management platform that provides capabilities that support both event-driven insight patterns, and business-rule-driven scenarios. It also can easily be used in combination with other IBM Analytics solutions, as the detailed examples will show. IBM Operational Decision Manager Advanced, along with complementary IBM software offerings that also provide capability for systems of insight, provides a way to deliver the greatest value to your customers and your business. IBM Operational Decision Manager Advanced brings together data from different sources to recognize meaningful trends and patterns. It empowers business users to define, manage, and automate repeatable operational decisions. As a result, organizations can create and shape customer-centric business moments. This IBM Redbooks® publication explains the key concepts of systems of insight and how to implement a system of insight solution with examples. It is intended for IT architects and professionals who are responsible for implementing a systems of insights solution requiring event-based context pattern detection and deterministic decision services to enhance other analytics solution components with IBM Operational Decision Manager Advanced.

Performance Optimization and Tuning Techniques for IBM Power Systems Processors Including IBM POWER8 Brian Hall,Peter Bergner,Alon Shalev Housfater,Madhusudanan Kandasamy,Tulio Magno,Alex Mericas,Steve Munroe,Mauricio Oliveira,Bill Schmidt,Will Schmidt,Bernard King Smith,Julian Wang,Suresh Warrier,David Wendt,IBM Redbooks,2017-03-31 This IBM® Redbooks® publication focuses on gathering the correct technical information, and laying out simple guidance for optimizing code performance on IBM POWER8® processor-based systems that run the IBM AIX®, IBM i, or Linux operating systems. There is straightforward performance optimization that can be performed with a minimum of effort and without extensive previous experience or in-depth knowledge. The POWER8 processor contains many new and important performance features, such as support for eight hardware threads in each core and support for transactional memory. The POWER8 processor is a strict superset of the IBM POWER7+TM processor, and so all of the performance features of the POWER7+ processor, such as multiple page sizes, also appear in the POWER8 processor. Much of the technical information and guidance for optimizing performance on POWER8 processors that is presented in this guide also applies to POWER7+ and earlier processors, except where the guide explicitly indicates that a feature is new in the POWER8 processor. This guide strives to focus on optimizations that tend to be positive across a broad set of IBM POWER® processor chips and systems. Specific guidance is given for the POWER8 processor; however, the general guidance is applicable to the IBM POWER7+, IBM POWER7®, IBM POWER6®, IBM POWER5, and even to earlier processors. This guide is directed at personnel who are responsible for performing migration and implementation activities on POWER8 processor-based systems. This includes system administrators, system architects, network administrators, information architects, and database administrators (DBAs).

IBM Integrated Synchronization: Incremental Updates Unleashed Christian Michel,Cüneyt Göksu,Günter Schöllmann,IBM Redbooks,2021-01-27 The IBM® Db2® Analytics Accelerator (Accelerator) is a logical extension of Db2 for IBM z/OS® that provides a high-speed query engine that efficiently and cost-effectively runs analytics workloads. The Accelerator is an integrated back-end component of Db2 for z/OS.

Together, they provide a hybrid workload-optimized database management system that seamlessly manages queries that are found in transactional workloads to Db2 for z/OS and queries that are found in analytics applications to Accelerator. Each query runs in its optimal environment for maximum speed and cost efficiency. The incremental update function of Db2 Analytics Accelerator for z/OS updates Accelerator-shadow tables continually. Changes to the data in original Db2 for z/OS tables are propagated to the corresponding target tables with a high frequency and a brief delay. Query results from Accelerator are always extracted from recent, close-to-real-time data. An incremental update capability that is called IBM InfoSphere® Change Data Capture (InfoSphere CDC) is provided by IBM InfoSphere Data Replication for z/OS up to Db2 Analytics Accelerator V7.5. Since then, an extra new replication protocol between Db2 for z/OS and Accelerator that is called IBM Integrated Synchronization was introduced. With Db2 Analytics Accelerator V7.5, customers can choose which one to use. IBM Integrated Synchronization is a built-in product feature that you use to set up incremental updates. It does not require InfoSphere CDC, which is bundled with IBM Db2 Analytics Accelerator. In addition, IBM Integrated Synchronization has more advantages: Simplified administration, packaging, upgrades, and support. These items are managed as part of the Db2 for z/OS maintenance stream. Updates are processed quickly. Reduced CPU consumption on the mainframe due to a streamlined, optimized design where most of the processing is done on the Accelerator. This situation provides reduced latency. Uses IBM Z® Integrated Information Processor (zIIP) on Db2 for z/OS, which leads to reduced CPU costs on IBM Z and better overall performance data, such as throughput and synchronized rows per second. On z/OS, the workload to capture the table changes was reduced, and the remainder can be handled by zIIPs. With the introduction of an enterprise-grade Hybrid Transactional Analytics Processing (HTAP) enabler that is also known as the Wait for Data protocol, the integrated low latency protocol is now enabled to support more analytical queries running against the latest committed data. IBM Db2 for z/OS Data Gate simplifies delivering data from IBM Db2 for z/OS to IBM Cloud® Pak® for Data for direct access by new applications. It uses the special-purpose integrated synchronization protocol to maintain data currency with low latency between Db2 for z/OS and dedicated target databases on IBM Cloud Pak for Data.

Embracing the Melody of Expression: An Psychological Symphony within **IBM**

In a global consumed by displays and the ceaseless chatter of immediate connection, the melodic elegance and psychological symphony produced by the prepared word usually diminish in to the backdrop, eclipsed by the relentless noise and interruptions that permeate our lives. However, situated within the pages of **IBM** a stunning literary treasure full of raw feelings, lies an immersive symphony waiting to be embraced. Crafted by a masterful composer of language, that captivating masterpiece conducts visitors on a mental journey, well unraveling the hidden songs and profound influence resonating within each cautiously constructed phrase. Within the depths with this touching examination, we can examine the book is key harmonies, analyze its enthralling writing fashion, and submit ourselves to the profound resonance that echoes in the depths of readers souls.

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IBM Introduction

In this digital age, the convenience of accessing information at our fingertips has become a necessity. Whether its research papers, eBooks, or user manuals, PDF files have become the preferred format for sharing and reading documents. However, the cost associated with purchasing PDF files can sometimes be a barrier for many individuals and organizations. Thankfully, there are numerous websites and platforms that allow users to download free PDF files legally. In this article, we will explore some of the best platforms to download free PDFs. One of the most popular platforms to download free PDF files is Project Gutenberg. This online library offers over 60,000 free eBooks that are in the public domain. From classic literature to historical documents, Project Gutenberg provides a wide range of PDF files that can be downloaded and enjoyed on various devices. The website is user-friendly and allows users to search for specific titles or browse through different categories. Another reliable platform for downloading IBM free PDF files is Open Library. With its vast collection of over 1 million eBooks, Open Library has something for every reader. The website offers a seamless experience by providing options to borrow or download PDF files. Users simply need to create a free account to access this treasure trove of

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