Ibm Db2 V11 Manuals

System Programmer's Guide to Workload ManagerIBM z/OS Management Facility V2R3IBM Content Manager OnDemand GuideIBM FlashSystem 7200 Product GuideZ/OS Parallel Sysplex Configuration OverviewDFSMS: Extended Address VolumeDeployment Guide for InfoSphere GuardiumIBM FlashSystem A9000 and A9000R Business Continuity SolutionsEmbedding IBM InformixExploring IBM Db2 for z/OS Continuous DeliveryIBM z/OS V2R2: Storage Management and UtilitiesNew Ways of Running Batch Applications on z/OS: Volume 4 IBM IMSExpert Oracle GoldenGateIBM GDPS Active/Active Overview and PlanningMetadata Management with IBM InfoSphere Information ServerIBM DB2 12 for z/OS Technical OverviewSubsystem and Transaction Monitoring and Tuning with DB2 11 for z/OSABCs of z/OS System ProgrammingDB2 Exam C2090-320 Preparation GuideImplementing an InfoSphere Optim Data Growth SolutionIBM Informix Developer's HandbookDB2 VirtualizationPentaho Kettle SolutionsData Mining with Rattle and RDB2 for Z/OSSQL CookbookIntroduction to the New Mainframe: z/OS BasicsMainframe from Scratch: Hardware Configuration and z/OS BuildDB2 EssentialsComplete Analytics with IBM DB2 Query Management Facility: Accelerating Well-Informed Decisions Across the EnterpriseDB2 9 for Z/OS Stored ProceduresDb2 for z/OS Utilities in PracticeImage DatabasesIBM z14 ZR1 Technical GuideReduce Risk and Improve Security on IBM Mainframes: Volume 3 Mainframe Subsystem and Application SecurityDB2

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System Programmer's Guide to Workload Manager

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 InfoSphereTM 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 z/OS Management Facility V2R3

This IBM® Redbooks® publication helps you to become familiar with the technical changes that were introduced into the Storage Management and Utilities areas with IBM z/OS V2R2. This book is one of a series of IBM Redbooks 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 Content Manager OnDemand Guide

Expert Oracle GoldenGate is a hands-on guide to creating and managing complex data replication environments using the latest in database replication technology from Oracle. GoldenGate is the future in

replication technology from Oracle, and aims to be best-of-breed. GoldenGate supports homogeneous replication between Oracle databases. It supports heterogeneous replication involving other brands such as Microsoft SQL Server and IBM DB2 Universal Server. GoldenGate is high-speed, bidirectional, highly-parallelized, and makes only a light impact on the performance of databases involved in replication. The authors share their experience in the form of tutorials on designing and implementing all types of Oracle GoldenGate environments. You'll learn methods for tuning Oracle GoldenGate performance. You'll discover GoldenGate's utility as a migration and extract, transform, load (ETL) tool. You'll learn to configure highly-available environments involving GoldenGate, Real Application Clusters, and Data Guard. From installation to design to implementation and troubleshooting, Expert Oracle GoldenGate helps you master all aspects of using and applying Oracle GoldenGate as the replication tool of choice in your environment. Explains all aspects of using GoldenGate for replication Covers homogeneous, heterogeneous, and bidirectional replication Shows the use of GoldenGate for data migration and extract, transform, load (ETL)

IBM FlashSystem 7200 Product Guide

This IBM® RedpaperTM publication provides key information about continuous delivery in IBM Db2® 12 for z/OS®. It discusses how continuous delivery works and the changes that have been made in Db2 12 to support continuous delivery, such as adding a

new catalog table and changing existing catalog tables. Also the paper covers the effects on applications and how to take advantage of new function provided using the continuous delivery model.

Z/OS Parallel Sysplex Configuration Overview

This IBM® Redbooks® publication provides a practical guide to the design, installation, configuration, and maintenance of IBM Content Manager OnDemand Version 9.5. Content Manager OnDemand manages the high-volume storage and retrieval of electronic statements and provides efficient enterprise report management. Content Manager OnDemand transforms formatted computer output and printed reports, such as statements and invoices, into electronic information for easy report management. Content Manager OnDemand helps eliminate costly, high-volume print output by capturing, indexing, archiving, and presenting electronic information for improved customer service. This publication covers the key areas of Content Manager OnDemand, some of which might not be known to the Content Manager OnDemand community or are misunderstood. The book covers various topics, including basic information in administration, database structure, storage management, and security. In addition, the book covers data indexing, loading, conversion, and expiration. Other topics include user exits, performance, retention management, records

management, and many more. Because many other resources are available that address subjects on different platforms, this publication is not intended as a comprehensive guide for Content Manager OnDemand. Rather, it is intended to complement the existing Content Manager OnDemand documentation and provide insight into the issues that might be encountered in the setup and use of Content Manager OnDemand. This book is intended for individuals who need to design, install, configure, and maintain Content Manager OnDemand.

DFSMS: Extended Address Volume

This IBM® Redbooks® publication helps you install, customize, and configure an IBM z13® and build z/OS® environments. This book is intended for those readers who are new to the platform and are faced with the task of installing a mainframe for the first time. By the term mainframe in this instance, we refer to the hardware and the system software. The intention is to show you how this installation can be done. Volume 1 shows you how we set up a mainframe and installed z/OS V2R2 and IBM DB2® V11. The starting point is a basic hardware configuration of an IBM z13 and DS8000® as shipped from the factory. Volume 1 shows you how the following milestones were achieved: Creating a configuration for the Customized Offering Driver (COD) system Stand-alone restoration of the COD Expanding the configuration Installing the z/OS V2R2 ServerPac Loading and running IVPs for z/OS ServerPac Installing DB2 ServerPac and IVPs This

publication includes figures that show you how the initial builds were achieved. For this book, we designed a scenario and show you how to build that scenario step-by-step. Although your requirements likely differ from our scenario, we intend to provide you with an example to show you how it can be done and samples and downloadable materials that you can choose to modify to bring you closer to meeting your needs. This book is divided into the following parts: Part 1: Overview and Planning In this part, we introduce you to how we approached the project. Part 2: Configuration and builds In this part, we describe the tasks that must be completed to create the initial build for the scenario that is described in Part 1.

Deployment Guide for InfoSphere Guardium

IBM® Informix® is a low-administration, easy-to-use, and embeddable database that is ideal for application development. It supports a wide range of development platforms, such as JavaTM, .NET, PHP, and web services, enabling developers to build database applications in the language of their choice. Informix is designed to handle RDBMS data and XML without modification and can be extended easily to handle new data sets. This IBM Redbooks® publication provides fundamentals of Informix application development. It covers the Informix Client installation and configuration for application development environments. It discusses the skills and techniques for building Informix applications with Java, ESQL/C, OLE DB, .NET, PHP, Ruby on Rails,

DataBlade®, and Hibernate. The book uses code examples to demonstrate how to develop an Informix application with various drivers, APIs, and interfaces. It also provides application development troubleshooting and considerations for performance. This book is intended for developers who use IBM Informix for application development. Although some of the topics that we discuss are highly technical, the information in the book might also be helpful for managers or database administrators who are looking to better understand their Informix development environment.

IBM FlashSystem A9000 and A9000R Business Continuity Solutions

Mainframe computers play a central role in the daily operations of many of the world's largest corporations. Batch processing is still a fundamental, mission-critical component of the workloads that run on the mainframe. A large portion of the workload on IBM® z/OS® systems is processed in batch mode. This IBM Redbooks® publication is the fourth volume in a series of four. They address new technologies introduced by IBM to facilitate the use of hybrid batch applications that combine the best aspects of Java and procedural programming languages such as COBOL. This volume focuses on the latest enhancements in IBM IMSTM batch support. IMS has been available to clients for 45 years as IMS Transaction Manager, IMS Database Manager, or both. The audience for this book includes IT architects and application developers with a focus on batch

processing on the z/OS platform.

Embedding IBM Informix

This edition applies to FlashSystem A9000 and A9000R, Model 415 and 425, with system software Version 12.3 IBM® FlashSystem A9000 and IBM FlashSystem® A9000R provide copy functions suited for various data protection scenarios that enable you to enhance your business continuance, disaster recovery, data migration, and backup solutions. These functions allow point-in-time copies, known as snapshots, and also include remote copy capabilities in either synchronous or asynchronous mode. Furthermore, support for IBM Hyper-Scale Mobility enables a seamless migration of IBM FlashSystem A9000 or A9000R volumes to another with no interference to the host. Starting with software level V12.1, the IBM HyperSwap® feature delivers always-on, high availability (HA) storage service for storage volumes in a production environment. Starting with version 12.2, asynchronous replication between the IBM XIV® Gen3 and FlashSystem A9000 or A9000R is supported. Starting with Version 12.2.1, Hyper-Scale Mobility is enabled between XIV Gen3 and FlashSystem A9000 or A9000R. Version 12.3 offers Multi-site replication solution that entails both High Availability (HA) and Disaster Recovery (DR)function by combining HyperSwap and Asynchronous replication to a third site. This IBM RedpaperTM publication is intended for anyone who needs a detailed and practical understanding of the IBM FlashSystem A9000 and IBM FlashSystem A9000R

replication and business continuity functions.

Exploring IBM Db2 for z/OS Continuous Delivery

Data mining is the art and science of intelligent data analysis. By building knowledge from information, data mining adds considerable value to the ever increasing stores of electronic data that abound today. In performing data mining many decisions need to be made regarding the choice of methodology, the choice of data, the choice of tools, and the choice of algorithms. Throughout this book the reader is introduced to the basic concepts and some of the more popular algorithms of data mining. With a focus on the hands-on end-to-end process for data mining, Williams guides the reader through various capabilities of the easy to use, free, and open source Rattle Data Mining Software built on the sophisticated R Statistical Software. The focus on doing data mining rather than just reading about data mining is refreshing. The book covers data understanding, data preparation, data refinement, model building, model evaluation, and practical deployment. The reader will learn to rapidly deliver a data mining project using software easily installed for free from the Internet. Coupling Rattle with R delivers a very sophisticated data mining environment with all the power, and more, of the many commercial offerings.

IBM z/OS V2R2: Storage Management and Utilities

As IBM® continues to enhance the functionality, performance, and availability of IBM Db2®, the utilities have made significant strides towards self-management. IBM Db2 for z/OS utilities is leading the trend towards autonomics. During the last couple of versions of Db2 for z/OS, and through the maintenance stream, new features and enhancements have been delivered to further improve the performance and functionality of the Db2 utilities. The intent of this IBM RedpaperTM publication is to help Db2 Database Administrators, Db2 System Programmers, and anyone who runs Db2 for z/OS utilities implement best practices. The intent of this paper is not to replicate the Db2 for z/OS Utilities Reference Guide or the Db2 for z/OS Installation Guide. This paper describes and informs you how to apply real-life practical preferred practices for the IBM Db2 for z/OS Utilities Suite. The paper concentrates on the enhancements provided by Db2 utilities, regardless of the version, albeit some functions and features are available only in Db2 12 for IBM z/OS®.

New Ways of Running Batch Applications on z/OS: Volume 4 IBM IMS

Today, organizations face tremendous challenges with data explosion and information governance. InfoSphereTM OptimTM solutions solve the data growth problem at the source by managing the enterprise application data. The Optim Data Growth solutions are consistent, scalable solutions that include comprehensive capabilities for managing

enterprise application data across applications, databases, operating systems, and hardware platforms. You can align the management of your enterprise application data with your business objectives to improve application service levels, lower costs, and mitigate risk. In this IBM® Redbooks® publication, we describe the IBM InfoSphere Optim Data Growth solutions and a methodology that provides implementation guidance from requirements analysis through deployment and administration planning. We also discuss various implementation topics including system architecture design, sizing, scalability, security, performance, and automation. This book is intended to provide various systems development professionals, Data Solution Architects, Data Administrators, Modelers, Data Analysts, Data Integrators, or anyone who has to analyze or integrate data structures, a broad understanding about IBM InfoSphere Optim Data Growth solutions. By being used in conjunction with the product manuals and online help, this book provides guidance about implementing an optimal solution for managing your enterprise application data.

Expert Oracle GoldenGate

This IBM® Redbooks® publication discusses in detail the facilities of DB2® for z/OS®, which allow complete monitoring of a DB2 environment. It focuses on the use of the DB2 instrumentation facility component (IFC) to provide monitoring of DB2 data and events and includes suggestions for related tuning. We discuss the collection of statistics for the

verification of performance of the various components of the DB2 system and accounting for tracking the behavior of the applications. We have intentionally omitted considerations for query optimization; they are worth a separate document. Use this book to activate the right traces to help you monitor the performance of your DB2 system and to tune the various aspects of subsystem and application performance.

IBM GDPS Active/Active Overview and Planning

The Easy, Visual Introduction to IBM DB2 Version 10.5 for Linux, UNIX, and Windows Foreword by Judy Huber, Vice President, Distributed Data Servers and Data Warehousing; Director, IBM Canada Laboratory This book covers everything you need to get productive with the latest version of IBM DB2 and apply it to today's business challenges. It discusses key features introduced in DB2 Versions 10.5, 10.1, and 9.7, including improvements in manageability, integration, security, Big Data support, BLU Acceleration, and cloud computing. DB2 Essentials illuminates key concepts with examples drawn from the authors' extensive experience with DB2 in enterprise environments. Raul F. Chong and Clara Liu explain how DB2 has evolved, what's new, and how to choose the right products, editions, and tools. Next, they walk through installation, configuration, security, data access, remote connectivity, and day-to-day administration. Each chapter starts with an illustrative overview to introduce its key concepts using a big

picture approach. Clearly explained figures are used extensively, and techniques are presented with intuitive screenshots, diagrams, charts, and tables. Case studies illustrate how “theory” is applied in real-life environments, and hundreds of review questions help you prepare for IBM’s newest DB2 certification exams. Coverage includes • Understanding the role of DB2 in Big Data • Preparing for and executing a smooth installation or upgrade • Understanding the DB2 environment, instances, and databases • Configuring client and server connectivity • Working with database objects • Getting started with BLU Acceleration • Implementing security: authentication and authorization • Understanding concurrency and locking • Maintaining, backing up, and recovering data • Using basic SQL in DB2 environments • Diagnosing and solving DB2 problems This book is for anyone who plans to work with DB2, including DBAs, system administrators, developers, and consultants. It will be a great resource whether you’re upgrading from an older version of DB2, migrating from a competitive database, or learning your first database platform.

Metadata Management with IBM InfoSphere Information Server

There is enormous pressure today for businesses across all industries to cut costs, enhance business performance, and deliver greater value with fewer resources. To take business analytics to the next level and drive tangible improvements to the bottom line, it is important to manage not only the volume of data,

but the speed with which actionable findings can be drawn from a wide variety of disparate sources. The findings must be easily communicated to those responsible for making both strategic and tactical decisions. At the same time, strained IT budgets require that the solution be self-service for everyone from DBAs to business users, and easily deployed to thin, browser-based clients. Business analytics hosted in the Query Management FacilityTM (QMFTM) on DB2® and System z® allow you to tackle these challenges in a practical way, using new features and functions that are easily deployed across the enterprise and easily consumed by business users who do not have prior IT experience. This IBM® Redbooks® publication provides step-by-step instructions on using these new features: Access to data that resides in any JDBC-compliant data source OLAP access through XMLA 150+ new analytical functions Graphical query interfaces and graphical reports Graphical, interactive dashboards Ability to integrate QMF functions with third-party applications Support for the IBM DB2 Analytics Accelerator A new QMF Classic perspective in QMF for Workstation Ability to start QMF for TSO as a DB2 for z/OS stored procedure New metadata capabilities, including ER diagrams and capability to federate data into a single virtual source

IBM DB2 12 for z/OS Technical Overview

Subsystem and Transaction Monitoring and Tuning with DB2 11 for z/OS

The ABCs of IBM® z/OS® System Programming is a 13-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 you need to start your research into z/OS and related subjects. If you would like 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 serves as a powerful technical tool. . This IBM Redbooks® publication, Volume 8, shows you how to: - Adopt a systematic and thorough approach to dealing with problems and identifying the different types of problems - Determine where to look for diagnostic information and how to obtain it - Interpret and analyze the diagnostic data collected - Escalate problems to the IBM Support Center when necessary - Collect and analyze diagnostic data—a dynamic and complex process - Identify and document problems, collect and analyze pertinent diagnostic data and obtain help as needed, to speed you on your way to problem resolution The content of the volumes is as follows 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, SMP/E, Language Environment® Volume 3: Introduction to DFSMS, data set basics storage management hardware and software, catalogs, and DFSMStvs Volume 4: Communication Server, TCP/IP, and VTAM® Volume 5: Base and Parallel Sysplex® , System

Logger, Resource Recovery Services (RRS), global resource serialization (GRS), z/OS system operations, automatic restart management (ARM), Geographically Dispersed Parallel SysplexTM (GDPS®) Volume 6: Introduction to security, RACF, Digital certificates and PKI, Kerberos, cryptography and z990 integrated cryptography, zSeries® firewall technologies, 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 z/ArchitectureTM , zSeries processor design, zSeries connectivity, LPAR concepts, HCD, and HMC Volume 11: Capacity planning, performance management, WLM, RMFTM , and SMF

ABCs of z/OS System Programming

A guide to SQL covers such topics as retrieving records, metadata queries, working with strings, data arithmetic, date manipulation, reporting and warehousing, and hierarchical queries.

DB2 Exam C2090-320 Preparation Guide

The Easy, Visual Way to Master IBM® DB2 for Linux®, UNIX®, and Windows®—Fully Updated for Version 9.5 IBM DB2 9 and DB2 9.5 provide breakthrough capabilities for providing Information on Demand, implementing Web services and Service Oriented Architecture, and streamlining information management. Understanding DB2: Learning Visually

with Examples, Second Edition, is the easiest way to master the latest versions of DB2 and apply their full power to your business challenges. Written by four IBM DB2 experts, this book introduces key concepts with dozens of examples drawn from the authors' experience working with DB2 in enterprise environments. Thoroughly updated for DB2 9.5, it covers new innovations ranging from manageability to performance and XML support to API integration. Each concept is presented with easy-to-understand screenshots, diagrams, charts, and tables. This book is for everyone who works with DB2: database administrators, system administrators, developers, and consultants. With hundreds of well-designed review questions and answers, it will also help professionals prepare for the IBM DB2 Certification Exams 730, 731, or 736. Coverage includes Choosing the right version of DB2 for your needs Installing and configuring DB2 Understanding the DB2 environment, instances, and databases Establishing client and server connectivity Working with database objects Utilizing breakthrough pureXML™ technology, which provides for nativeXML support Mastering administration, maintenance, performance optimization, troubleshooting, and recovery Understanding improvements in the DB2 process, memory, and storage models Implementing effective database security Leveraging the power of SQL and XQuery

Implementing an InfoSphere Optim Data Growth Solution

The rapid growth of big data and the storage of all that data is creating a critical problem for many organizations with IBM® z SystemsTM environments. This situation occurs because the data that is stored is using all of the addressable device storage that is available. This IBM RedpaperTM publication describes how extended addressable volume (EAV) for IBM 3390 Direct Access Storage Device (DASD) devices can solve the lack of addressable device storage space problem. The paper also describes the design points of EAV, the value of implementing EAV, and the use of EAV.

IBM Informix Developer's Handbook

This IBM® Redbooks® publication describes the new member of the IBM Z® family, IBM z14TM Model ZR1 (Machine Type 3907). It includes information about the Z environment and how it helps integrate data and transactions more securely, and can infuse insight for faster and more accurate business decisions. The z14 ZR1 is a state-of-the-art data and transaction system that delivers advanced capabilities, which are vital to any digital transformation. The z14 ZR1 is designed for enhanced modularity, in an industry standard footprint. 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 ZR1 servers are designed with improved scalability, performance, security, resiliency, availability, and virtualization. The superscalar design allows z14 ZR1 servers to deliver a record level of capacity over the previous IBM Z platforms. In its maximum configuration, z14 ZR1 is powered by up to 30 client characterizable microprocessors (cores) running at 4.5 GHz. This configuration can run more than 29,000 million instructions per second and up to 8 TB of client memory. The IBM z14 Model ZR1 is estimated to provide up to 54% more total system capacity than the IBM z13s® Model N20. This Redbooks publication provides information about IBM z14 ZR1 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 IBM Z technology and terminology.

DB2 Virtualization

Pentaho Kettle Solutions

This book will help you pass IBM Exam C2090-320 and become an IBM Certified Database Associate - DB2 11 Fundamentals for z/OS. The instruction, examples and questions/answers in the book offer you a significant advantage by helping you to gauge your readiness for

the exam, to better understand the objectives being tested, and to get a broad exposure to the DB2 11 knowledge you'll be tested on. The book is also a fine introduction to DB2 for z/OS!

Data Mining with Rattle and R

IBM® DB2® Version 11.1 for z/OS® (DB2 11 for z/OS or just DB2 11 throughout this book) is the fifteenth release of DB2 for IBM MVSTM. It brings performance and synergy with the IBM System z® hardware and opportunities to drive business value in the following areas. DB2 11 can provide unmatched reliability, availability, and scalability - Improved data sharing performance and efficiency - Less downtime by removing growth limitations - Simplified management, improved autonomics, and reduced planned outages DB2 11 can save money and save time - Aggressive CPU reduction goals - Additional utilities performance and CPU improvements - Save time and resources with new autonomic and application development capabilities DB2 11 provides simpler, faster migration - SQL compatibility, divorce system migration from application migration - Access path stability improvements - Better application performance with SQL and XML enhancements DB2 11 includes enhanced business analytics - Faster, more efficient performance for query workloads - Accelerator enhancements - More efficient inline database scoring enables predictive analytics The DB2 11 environment is available either for new installations of DB2 or for migrations from DB2 10 for z/OS subsystems only. This IBM Redbooks®

publication introduces the enhancements made available with DB2 11 for z/OS. The contents help database administrators to understand the new functions and performance enhancements, to plan for ways to use the key new capabilities, and to justify the investment in installing or migrating to DB2 11.

DB2 for Z/OS

This IBM® Redbooks® publication documents the strength and value of the IBM security strategy with IBM zTM Systems hardware and software. In an age of increasing security consciousness and more and more dangerous advanced persistent threats, IBM z SystemsTM provides the capabilities to address the needs of today's business security challenges. This publication explores how z Systems hardware is designed to provide integrity, process isolation, and cryptographic capability to help address security requirements. We highlight the features of IBM z/OS® and other operating systems, which offer a variety of customizable security elements. We discuss z/OS and other operating systems and additional software that use the building blocks of z Systems hardware to provide solutions to business security needs. We also explore the perspective from the view of an enterprise security architect and how a modern mainframe has to fit into an overarching enterprise security architecture. This book is part of a three-volume series that focuses on guiding principles for optimized mainframe security configuration within a holistic enterprise security architecture. The series' intended audience includes enterprise security

architects, planners, and managers who are interested in exploring how the security design and features of z Systems, the z/OS operating system, and associated software address current issues such as data encryption, authentication, authorization, network security, auditing, ease of security administration, and monitoring.

SQL Cookbook

IBM® DB2® 12 for z/OS® delivers key innovations that increase availability, reliability, scalability, and security for your business-critical information. In addition, DB2 12 for z/OS offers performance and functional improvements for both transactional and analytical workloads and makes installation and migration simpler and faster. DB2 12 for z/OS also allows you to develop applications for the cloud and mobile devices by providing self-provisioning, multitenancy, and self-managing capabilities in an agile development environment. DB2 12 for z/OS is also the first version of DB2 built for continuous delivery. This IBM Redbooks® publication introduces the enhancements made available with DB2 12 for z/OS. The contents help database administrators to understand the new functions and performance enhancements, to plan for ways to use the key new capabilities, and to justify the investment in installing or migrating to DB2 12.

Introduction to the New Mainframe: z/OS Basics

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 administrating 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.

Mainframe from Scratch: Hardware Configuration and z/OS Build

DB2 Essentials

Complete Analytics with IBM DB2 Query

Management Facility: Accelerating Well-Informed Decisions Across the Enterprise

The explosive growth of multimedia data transmission has generated a critical need for efficient, high-capacity image databases, as well as powerful search engines to retrieve image data from them. This book brings together contributions by an international all-star team of innovators in the field who share their insights into all key aspects of image database and search engine construction. Readers get in-depth discussions of the entire range of crucial image database architecture, indexing and retrieval, transmission, display, and user interface issues. And, using examples from an array of disciplines, the authors present cutting-edge applications in medical imagery, multimedia communications, earth science, remote sensing, and other major application areas.

DB2 9 for Z/OS Stored Procedures

This IBM® Redbooks® Product Guide publication describes the IBM FlashSystem® 7200 solution, which is a comprehensive, all-flash, and NVMe-enabled enterprise storage solution that delivers the full capabilities of IBM FlashCore® technology. In addition, it provides a rich set of software-defined storage (SDS) features, including data reduction and de-duplication, dynamic tiering, thin-provisioning, snapshots, cloning, replication, data copy services, and IBM HyperSwap® for high availability (HA). Scale-out and scale-up configurations further enhance capacity and throughput for better availability

Db2 for z/OS Utilities in Practice

IBM® Geographically Dispersed Parallel SysplexTM (GDPS®) is a collection of several offerings, each addressing a different set of IT resiliency goals. It can be tailored to meet the recovery point objective (RPO), which is how much data can you are willing to lose or recreate, and the recovery time objective (RTO), which identifies how long can you afford to be without your systems for your business from the initial outage to having your critical business processes available to users. Each offering uses a combination of server and storage hardware or software-based replication, and automation and clustering software technologies. This IBM Redbooks® publication presents an overview of the IBM GDPS active/active (GDPS/AA) offering and the role it plays in delivering a business IT resilience solution.

Image Databases

This IBM® Redbooks® publication helps you install, configure, and use the IBM z/OS® Management Facility (z/OSMF). z/OSMF is a product for z/OS that simplifies, optimizes, and modernizes the z/OS system programmer experience. z/OSMF delivers solutions in a task-oriented, web browser-based user interface with integrated user assistance. The goal of z/OSMF is to improve system programmer productivity, and make functions easier to understand and use. This improvement makes system programmers more productive as quickly as possible with the least amount of training. You can automate tasks, reduce

the learning curve, and improve productivity through a modern, simplified, and intuitive task-based, browser-based interface. z/OSMF is aimed at a mixed skills workforce: It is suited to professionals who are new to z/OS and those who are skilled in z/OS. Each professional has their own needs and faces their own challenges. Novice system programmer might need to understand the "big picture" and how procedures are done. Novices also need access to documentation about procedures and tasks, and implement them according to the rules of the enterprise. Experienced system programmers are familiar with tasks and procedures. Therefore, the goal is to make their work less error-prone and easier. This goal allows them to be more productive and contribute more to their business. Although z/OS delivered simplification since it was introduced, z/OSMF brings a new dimension and focus to simplification. z/OSMF simplifies and modernizes the user experience and helps make pertinent information readily available and easily accessible.

IBM z14 ZR1 Technical Guide

Written primarily for database administrators who work on z/OS and who are taking the IBM DB2 11 for z/OS Database Administration certification exam (Exam 312), this resource also appeals to those who simply want to master the skills needed to be an effective database administrator of z/OS mainframes. This study guide is designed to provide those seeking certification with an intense overview of DB2 11 for z/OS and all topics covered on the exam. Sample

questions are provided at the end of each chapter, along with answers and explanations.

Reduce Risk and Improve Security on IBM Mainframes: Volume 3 Mainframe Subsystem and Application Security

This IBM® Redbooks® publication provides students of information systems technology with the background knowledge and skills necessary to begin using the basic facilities of a mainframe computer. It is the first in a planned series of book designed to introduce students to mainframe concepts and help prepare them for a career in large systems computing. For optimal learning, students are assumed to have successfully completed an introductory course in computer system concepts, such as computer organization and architecture, operating systems, data management, or data communications. They should also have successfully completed courses in one or more programming languages, and be PC literate. This book can also be used as a prerequisite for courses in advanced topics or for internships and special studies. It is not intended to be a complete text covering all aspects of mainframe operation or a reference book that discusses every feature and option of the mainframe facilities. Others who will benefit from this book include experienced data processing professionals who have worked with non-mainframe platforms, or who are familiar with some aspects of the mainframe but want to become knowledgeable with other facilities and benefits of the mainframe environment.

DB2 11 for z/OS Technical Overview

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.

IBM PowerHA SystemMirror Standard Edition 7.1.1 for AIX Update

The IBM Informix® Dynamic Server (IDS) has the tools to build a powerful data warehouse infrastructure

platform to lower costs and increase profits by doing more with your existing operational data and infrastructure. The Informix Warehouse Feature simplifies the process for design and deployment of a high performance data warehouse. With a state-of-the-art extract, load, and transform (ELT) tool and an Eclipse-based GUI environment that is easy to use, this comprehensive platform provides the foundation you need to cost effectively build and deploy the data warehousing infrastructure, using the IBM Informix Dynamic Server, and needed to enable the development and use of next-generation analytic solutions . This IBM® Redbooks® publication describes the technical information and demonstrates the functions and capabilities of the Informix Dynamic Server Warehouse Feature. It can help you understand how to develop a data warehousing architecture and infrastructure to meet your particular requirements, with the Informix Dynamic Server. It can also enable you to transform and manage your operational data, and use it to populate your data warehouse. With that new data warehousing environment, you can support the data analysis and decision-making that are required as you monitor and manage your business processes, and help you meet your business performance management goals, objectives, and measurements.

DB2 11 for Z/OS Database Administration

In this IBM® Redbooks® publication, we discuss and describe the capabilities for embedding Informix® into applications and software. We introduce the

technological architecture and describe several of the functions and features that support Informix as a robust and powerful embeddable DBMS. Many of these features are unique in the industry today, enabling clients to create a business advantage. The Informix database server can support the requirements of an embeddable DBMS, and is doing so for many companies today. The low administration requirements of the Informix database server enable clients to deploy thousands of Informix instances, embedded in applications in locations where there are no technical resources to support the database. The real requirement is for applications with embedded databases that require little or no administration, take minimum storage resources, have excellent performance, and are highly reliable. As a mature and reliable DBMS, the Informix database server works well with small, growing, and large databases, and meets the key requirements for embedded databases, which include the ability to execute without needing any configuration or other DBA administrative activities, and the flexibility to work on all of the platforms commonly used in the marketplace today.

Understanding DB2

This IBM® Redbooks® publication helps you install, tailor, and configure the new IBM PowerHA® SystemMirror® for AIX® 7.1.1 Standard Edition. This book gives an understanding of the Cluster Aware AIX (CAA). This book helps you design a solution to migrate from the previous version of the IBM PowerHA. This IBM Redbooks publication is targeted

toward technical professionals (consultants, technical support staff, IT architects, and IT specialists) responsible for providing continuous availability solutions and support.

Data Warehousing with the Informix Dynamic Server

Server virtualization technologies are becoming more popular to help efficiently utilize resources by consolidating servers. IBM® , the first company that developed and made available the virtual technology in 1966, offers advanced, powerful, reliable, and cost-saving virtualization technologies in various hardware and software products including DB2® for Linux, UNIX, and Windows. This IBM Redbooks® publication describes using IBM DB2 9 with server virtualization. We start with a general overview of virtualization and describe specific server virtualization technologies to highlight how the server virtualization technologies have been implemented. With this introduction anyone new to virtualization will have a better understanding of server virtualization and the industry server virtualization technologies available in the market. Following the virtualization concept, we describe in detail the setup, configuration, and managing of DB2 with three leading server virtualization technologies: IBM Power SystemsTM with PowerVMTM VMware Hyper-V We discuss the virtual machine setup with DB2 in mind to help IT support understand the effective ways of setting up a virtual environment specific for DB2. We explain the architecture and components of these three server

virtualization technologies to allow DBAs to understand how a database environment using DB2 can benefit from using the server virtualization technologies. In addition, we discuss the DB2 features and functions that can take advantage of using server virtualization. These features are put into practice when describing how to set up DB2 with the three virtualization technologies discussed in this book. This book also includes a list of best practices from the various tests performed while using these virtualization technologies. These best practices can be used as a guideline or a reference when setting up DB2 using these virtualization technologies.

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