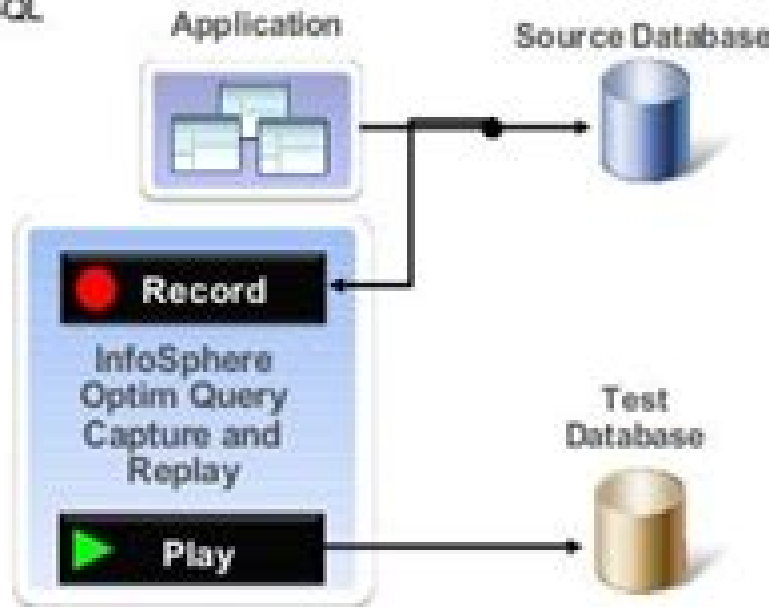


IBM InfoSphere Optim Query Capture and Replay



Record and replay SQL

Capture production workloads and
replay them in testing environments



Requirements

- Minimize unexpected production problems
- Shorten testing cycles
- Develop more realistic database testing scenarios

Benefits

- Identify database problems sooner with validation reports and performance tuning
- Use actual production workloads for testing rather than fabricated scenarios
- Extend quality testing efforts to include the data layer

Ibm Optim User Guide

**Mike Ebbers,Dino Tonelli,Jason
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Redbooks**

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Implementing an InfoSphere Optim Data Growth Solution Whei-Jen Chen,David Alley,Barbara Brown,Sunil Dravida,Saunnie Dunne,Tom Forlenza,Pamela S Hoffman,Tejinder S Luthra,Rajat Tiwary,Claudio Zancani,IBM Redbooks,2011-11-09 Today organizations face tremendous challenges with data explosion and information governance InfoSphere™ Optim™ 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

IBM Optim Performance Manager for DB2 for Linux, UNIX, and Windows Whei-Jen Chen,Ute Baumbach,Robert Borovsky,Sonali Kenge,Marcia Miskimen,Ling Xu,IBM Redbooks,2011-04-22 Optim™ Performance Manager Extended Edition a follow on to DB2 Performance Expert is one of the key products of the IBM Optim Solution Optim Performance Manager Extended Edition provides a comprehensive proactive performance management approach It helps organizations resolve emergent database problems before they impact the business This IBM Redbooks publication describes the architecture and components of Optim Performance Manager Extended Edition We provide information for planning the deployment of Optim Performance Manager and detail steps for successful installation activation and configuration of Optim Performance Manager and the Extended Insight client Optim Performance Manager delivers a new paradigm in terms of how it is used to monitor and manage database and database application performance issues We describe individual product dashboards and reports and discuss with various scenarios how they can be used to identify diagnose prevent and solve database performance problems

IBM zEnterprise 196 Technical Guide Bill White,Erik Bakker,Parwez Hamid,Octavian Lascu,Fernando Nogal,Frank Packeiser,Vicente Ranieri Jr.,Karl-Erik Stenfors,Esra Ufacik,Chen Zhu,IBM Redbooks,2012-03-19 The popularity of the Internet and the affordability of IT hardware and software have resulted in an explosion of applications architectures and platforms Workloads have changed Many applications including mission critical ones are deployed on a variety of platforms and the System z design has adapted to this change It

takes into account a wide range of factors including compatibility and investment protection to match the IT requirements of an enterprise The zEnterprise System consists of the IBM zEnterprise 196 central processor complex the IBM zEnterprise Unified Resource Manager and the IBM zEnterprise BladeCenter Extension The z196 is designed with improved scalability performance security resiliency availability and virtualization The z196 Model M80 provides up to 1.6 times the total system capacity of the z10 EC Model E64 and all z196 models provide up to twice the available memory of the z10 EC The zBX infrastructure works with the z196 to enhance System z virtualization and management through an integrated hardware platform that spans mainframe POWER7™ and System x technologies Through the Unified Resource Manager the zEnterprise System is managed as a single pool of resources integrating system and workload management across the environment This IBM Redbooks publication provides an overview of the zEnterprise System and its functions features and associated software support Greater detail is offered in areas relevant to technical planning This book is intended for systems engineers consultants planners and anyone wanting to understand the zEnterprise System functions and plan for their usage It is not intended as an introduction to mainframes Readers are expected to be generally familiar with existing IBM System z technology and terminology The changes to this edition are based on the System z hardware announcement dated July 12 2011

DB2 10 for z/OS Technical Overview Paolo Bruni, Rafael Garcia, Sabine Kaschta, Josef Klitsch, Ravi Kumar, Andrei Lurie, Michael Parbs, Rajesh Ramachandran, IBM Redbooks, 2014-07-16 IBM DB2 Version 10.1 for z/OS DB2 10 for z/OS or just DB2 10 throughout this book is the fourteenth release of DB2 for MVSTM It brings improved performance and synergy with the System z hardware and more opportunities to drive business value in the following areas Cost savings and compliance through optimized innovations DB2 10 delivers value in this area by achieving up to 10% CPU savings for traditional workloads and up to 20% CPU savings for nontraditional workloads depending on the environments Synergy with other IBM System z platform components reduces CPU use by taking advantage of the latest processor improvements and z/OS enhancements Streamline security and regulatory compliance through the separation of roles between security and data administrators column level security access and added auditing capabilities Business insight innovations Productivity improvements are provided by new functions available for pureXML data warehousing and traditional online TP applications Enhanced support for key business partners that allow you to get more from your data in critical business disciplines like ERP Bitemporal support for applications that need to correlate the validity of data with time Business resiliency innovations Database on demand capabilities to ensure that information design can be changed dynamically often without database outages DB2 operations and utility improvements enhancing performance usability and availability by exploiting disk storage technology The DB2 10 environment is available either for brand new installations of DB2 or for migrations from DB2 9 for z/OS or from DB2 UDB for z/OS Version 8 subsystems This IBM Redbooks publication introduces the enhancements made available with DB2 10 for z/OS The contents help you understand the new functions and performance enhancements start

planning for exploiting the key new capabilities and justify the investment in installing or migrating or skip migrating to DB2

10 *Co-locating Transactional and Data Warehouse Workloads on System z* Mike Ebberts, Dino Tonelli, Jason Arnold, Patric Becker, Yuan-Chi Chang, Willie Favero, Shantan Kethireddy, Nin Lei, Shirley Lin, Ron Lounsbury, Susan Widing Lynch, Cristian Molaro, Deepak Rangarao, Michael Schapira, IBM Redbooks, 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 z10™ 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 *DB2 Administration Solution Pack for z/OS: Streamlining DB2 for z/OS Database Administration* Paolo Bruni,Tom Crocker,Elaine Morelli,Richard Schaufuss,IBM Redbooks,2013-08-27 IBM DB2 tools for z OS support and exploit the most current versions of DB2 for z OS These tools are integral for the administration of the DB2 for z OS environment and optimization of data performance DB2 Administration Solution Pack for z OS V1 1 5697 DAM offers features functions and processes that database administrators DBAs can use to more effectively and efficiently manage DB2 environments DB2 Administration Solution Pack for z OS is composed of the following tools IBM DB2 Administration Tool for z OS IBM DB2 Object Comparison Tool for z OS IBM InfoSphere Optim™ Configuration Manager for DB2 for z OS IBM DB2 Table Editor for z OS This IBM Redbooks publication shows how the delivered capabilities can help DBAs to more easily complete tasks associated with object management change management application management and configuration management *Deployment Guide for InfoSphere Guardium* Whei-Jen Chen,Boaz Barkai,Joe M DiPietro,Vladislav Langman,Daniel Perlov,Roy Riah,Yosef Rozenblit,Abdiel Santos,IBM Redbooks,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

IBM Information Governance Solutions Chuck Ballard,John Baldwin,Alex Baryudin,Gary Brunell,Christopher Giardina,Marc Haber,Erik A O'Neill,Sandeep Shah,IBM Redbooks,2014-04-04 Managing information within the enterprise has always been a vital and important task to support the day to day business operations and to enable analysis of that data for decision making to better manage and grow the business for improved profitability To do all that clearly the data must be accurate and organized so it is accessible and understandable to all who need it That task has grown in importance as the volume of enterprise data has been growing significantly analyst estimates of 40 50% growth per year are not uncommon over the years However most of that data has been what we call structured data which is the type that can fit neatly into

rows and columns and be more easily analyzed Now we are in the era of big data This significantly increases the volume of data available but it is in a form called unstructured data That is data from sources that are not as easily organized such as data from emails spreadsheets sensors video audio and social media sites There is valuable information in all that data but it calls for new processes to enable it to be analyzed All this has brought with it a renewed and critical need to manage and organize that data with clarity of meaning understandability and interoperability That is you must be able to integrate this data when it is from within an enterprise but also importantly when it is from many different external sources What is described here has been and is being done to varying extents It is called information governance Governing this information however has proven to be challenging But without governance much of the data can be less useful and perhaps even used incorrectly significantly impacting enterprise decision making So we must also respect the needs for information security consistency and validity or else suffer the potential economic and legal consequences Implementing sound governance practices needs to be an integral part of the information control in our organizations This IBM Redbooks publication focuses on the building blocks of a solid governance program It examines some familiar governance initiative scenarios identifying how they underpin key governance initiatives such as Master Data Management Quality Management Security and Privacy and Information Lifecycle Management IBM Information Management and Governance solutions provide a comprehensive suite to help organizations better understand and build their governance solutions The book also identifies new and innovative approaches that are developed by IBM practice leaders that can help as you implement the foundation capabilities in your organizations

Solving Business Problems with Informix TimeSeries Vaibhav S Dantale, Tony Hays, Anup Nair, Jacques Roy, IBM Redbooks, 2012-09-21 The world is becoming more and more instrumented interconnected and intelligent in what IBM terms a smarter planet with more and more data being collected for analysis In trade magazines this trend is called big data As part of this trend the following types of time based information are collected Large data centers support a corporation or provide cloud services These data centers need to collect temperature humidity and other types of information over time to optimize energy usage Utility meters referred to as smart meters allow utility companies to collect information over a wireless network and to collect more data than ever before IBM Informix TimeSeries is optimized for the processing of time based data and can provide the following benefits Storage savings Storage can be optimized when you know the characteristics of your time based data Informix TimeSeries often uses one third of the storage space that is required by a standard relational database Query performance Informix TimeSeries takes into consideration the type of data to optimize its organization on disk and eliminates the need for some large indexes and additional sorting For these reasons and more some queries can easily have an order of magnitude performance improvement compared to standard relational Simpler queries Informix TimeSeries includes a large set of specialized functions that allow you to better express the processing that you want to execute It even provides a toolkit so that you can add proprietary algorithms to the library This

IBM Redbooks publication is for people who want to implement a solution that revolves around time based data It gives you the information that you need to get started and be productive with Informix TimeSeries

Oracle to DB2 Conversion Guide: Compatibility Made Easy Yvonne Chan,Nick Ivanov,Olaf Mueller,IBM Redbooks,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

Decoding **Ibm Optim User Guide**: Revealing the Captivating Potential of Verbal Expression

In an era characterized by interconnectedness and an insatiable thirst for knowledge, the captivating potential of verbal expression has emerged as a formidable force. Its power to evoke sentiments, stimulate introspection, and incite profound transformations is genuinely awe-inspiring. Within the pages of "**Ibm Optim User Guide**," a mesmerizing literary creation penned by a celebrated wordsmith, readers embark on an enlightening odyssey, unraveling the intricate significance of language and its enduring impact on our lives. In this appraisal, we shall explore the book's central themes, evaluate its distinctive writing style, and gauge its pervasive influence on the hearts and minds of its readership.

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