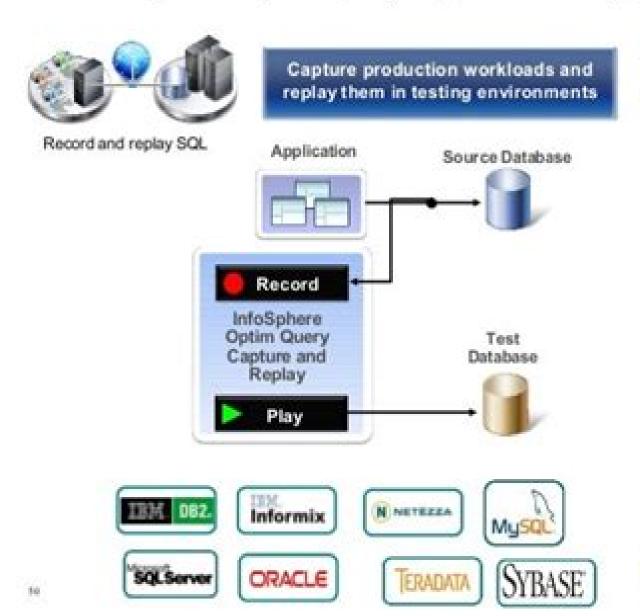


## IBM InfoSphere Optim Query Capture and Replay



## 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

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# **Infosphere Optim Manuals**

Yvonne Chan, Nick Ivanov, Olaf Mueller, IBM Redbooks

#### **Infosphere Optim Manuals:**

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 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 Performance Management: Using IBM InfoSphere Optim Performance Manager and Ouery Workload Tuner Chuck Ballard, Ute Baumbach, Holly Hayes, Marcia Miskimen, Lakshmi Palaniappan, Marichu Scanlon, Yong Hua Zeng, IBM Redbooks, 2013-11-27 This IBM Redbooks publication describes the architecture and components of IBM InfoSphere OptimTM Performance Manager Extended Edition Intended for DBAs and those involved in systems performance it provides information for installation configuration and deployment InfoSphere Optim Performance Manager delivers a new paradigm used to monitor and manage database and database application performance issues It describes product dashboards and reports and provides scenarios for how they can be used to identify diagnose prevent and resolve database performance problems IBM InfoSphere Optim Query Workload Tuner facilitates query and query workload analysis and provides expert recommendations for improving query and query workload performance Use InfoSphere Optim Performance Manager to identify slow running queries top CPU consumers or query workloads needing performance improvements and seamlessly transfer them to InfoSphere Optim Query Workload Tuner for analysis and recommendations This is done using guery formatting annotated with relevant statistics access plan graphical or hierarchical views and access plan analysis It further provides recommendations for improving query structure statistics collection and indexes including generated command syntax and rationale for the recommendations **Getting Started with IBM InfoSphere Optim** Workload Replay for DB2 Whei-Jen Chen, Nisanti Mohanraj, Hassi Norlen, Leif Pedersen, Patrick Titzler, Tom Toomire, John

Vonau,IBM Redbooks,2015-01-18 This IBM Redbooks publication will help you install configure and use IBM InfoSphere OptimTM Workload Replay InfoSphere Workload Replay a web based tool that lets you capture real production SQL workload data and then replay the workload data in a pre production environment With InfoSphere Workload Replay you can set up and run realistic tests for enterprise database changes without the need to create a complex client and application infrastructure to mimic your production environment The publication goes through the steps to install and configure the InfoSphere Workload Replay appliance and related database components for IBM DB2 for Linux UNIX and Windows and for DB2 for IBM z OS The capture replay and reporting process including user ID and roles management is described in detail to quickly get you up and running Ongoing operations such as appliance health monitoring starting and stopping the product and backup and restore in your day to day management of the product extensive troubleshooting information and information about how to integrate InfoSphere Workload Replay with other InfoSphere products are covered in separate chapters

Handbook of Research on Cloud Infrastructures for Big Data Analytics Raj, Pethuru, Deka, Ganesh Chandra, 2014-03-31 Clouds are being positioned as the next generation consolidated centralized yet federated IT infrastructure for hosting all kinds of IT platforms and for deploying maintaining and managing a wider variety of personal as well as professional applications and services Handbook of Research on Cloud Infrastructures for Big Data Analytics focuses exclusively on the topic of cloud sponsored big data analytics for creating flexible and futuristic organizations This book helps researchers and practitioners as well as business entrepreneurs to make informed decisions and consider appropriate action to simplify and streamline the arduous journey towards smarter enterprises 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 **Integrating IBM** Security and SAP Solutions Axel Buecker, Ivy Chiu, Kenny Chow, Ingo Dressler, Anthony Ferguson, Vaughan Harper, David Moore, Zoran Radenkovic, Guy Redding, John Robinson, Sascha Schefenacker, Franz Wolfhagen, IBM Redbooks, 2012-03-19 Many large and medium sized organizations have made strategic investments in the SAP NetWeaver technology platform as their primary application platform In fact SAP software is used to manage many core business processes and data As a result it is critical for all organizations to manage the life cycle of user access to the SAP applications while adhering to security and risk compliance requirements In this IBM Redbooks publication we discuss the integration points into SAP solutions that are supported by the IBM Security access and identity management product capabilities IBM Security software offers a range of identity management IdM adapters and access management components for SAP solutions that are available with IBM Tivoli Identity Manager IBM Tivoli Directory Integrator IBM Tivoli Directory Server IBM Access Manager for e business IBM Tivoli Access Manager for Enterprise Single Sign On and IBM Tivoli Federated Identity Manager This book is a valuable resource for security officers consultants administrators and architects who want to understand and implement an identity management solution for an SAP environment *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 **Virtualized Business Intelligence with InfoSphere Warehouse** Adriana Carvajal, Thomas Chong, IBM Redbooks, 2012-10-05 With the benefit of advanced analytics such as online analytical processing OLAP data mining and text analytics the IBM InfoSphere Warehouse Enterprise Edition brings sophisticated business intelligence BI to warehouse users InfoSphere Warehouse allows you to run extreme concurrent query volumes that can help answer questions for all types of business users while consistently meeting service level requirements Combined with a virtualization platform and a solid BI solution such as IBM Cognos you can deliver BI cloud services with improved flexibility and speed to your clients thereby presenting a new avenue for which your services can be offered This IBM Redbooks publication discusses the deployment of a BI cloud solution It includes details such as understanding the architecture of a cloud planning implementation integrating various software components and understanding the preferred practices of running a cloud deployment Essentially this book can be used as a guide by anyone who is interested in deploying a virtualized environment for a BI cloud solution

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Enterprise Class Mobile Application Development Leigh Williamson, Roland Barcia, Omkar Chandgadkar, Ashish Mathur, Soma Ray, Darrell Schrag, Roger Snook, Jianjun Zhang, 2015-11-19 Build and Deploy Mobile Business Apps That Smoothly Integrate with Enterprise IT For today's enterprises mobile apps can have a truly transformational impact However to maximize their value you can t build them in isolation Your new mobile apps must reflect the revolutionary mobile paradigm and delight today's mobile users but they must also integrate smoothly with existing systems and leverage previous generations of IT investment In this guide a team of IBM's leading experts show how to meet all these goals Drawing on extensive experience with pioneering enterprise clients they cover every facet of planning building integrating and deploying mobile apps in large scale production environments You'll find proven advice and best practices for architecture cloud integration security user experience coding testing and much more Each chapter can stand alone to help you solve specific real world problems Together they help you establish a flow of DevOps activities and lifecycle processes fully optimized for

enterprise mobility Solving Operational Business Intelligence with InfoSphere Warehouse Advanced Edition Whei-Ien Chen, Pat Bates, Timothy Donovan, Garrett Fitzsimons, Jon Lind, Rogerio Silva, IBM Redbooks, 2012-10-02 IBM InfoSphere Warehouse is the IBM flagship data warehouse platform for departmental data marts and enterprise data warehouses It offers leading architecture performance backup and recovery tools that help improve efficiency and reduce time to market through increased understanding of current data assets while simplifying the daily operations of managing complex warehouse deployments InfoSphere Warehouse Advanced Enterprise Edition delivers an enhanced set of database performance management and design tools These tools assist companies in maintaining and increasing value from their warehouses while helping to reduce the total cost of maintaining these complex environments In this IBM Redbooks publication we explain how you can build a business intelligence system with InfoSphere Warehouse Advanced Enterprise to manage and support daily business operations for an enterprise to generate more income with lower cost We describe the foundation of the business analytics the Data Warehouse features and functions and the solutions that can deliver immediate analytics solutions and help you drive better business outcomes We show you how to use the advanced analytics of InfoSphere Warehouse Advanced Enterprise Edition and integrated tools for data modeling mining text analytics and identifying and meeting the data latency requirements We describe how the performance and storage optimization features can make building and managing a large data warehouse more affordable and how they can help significantly reduce the cost of ownership We also cover data lifecycle management and the key features of IBM Cognos Business Intelligence This book is intended for data warehouse professionals who are interested in gaining in depth knowledge about the operational business intelligence solution for a data warehouse that the IBM InfoSphere Warehouse Advanced Enterprise Edition offers **IBM** Information Infrastructure Solutions Handbook Sangam Racherla, Vikas Bajaj, Emile Knebel, Glenn Korn, Anna Kutepova, Gary Newell, Sebastian Szumczyk, IBM Redbooks, 2010-07-11 An information infrastructure is comprised of software servers storage and networks integrated and optimized to deliver timely secure and trusted information throughout the organization and to its clients and partners With the explosive growth in data and information coupled with demands for projects with rapid ROI IT infrastructures and storage administrators are reaching a breaking point IBM can help with the changes needed to manage information availability security and regulatory and compliance requirements on a tighter budget And because the health of any business often depends on its ability to take advantage of information in real time a sound intelligent information infrastructure becomes critical to supporting new growth initiatives IBM offers an innovative approach to help you manage information growth more effectively and mitigate risks with a dynamic infrastructure that efficiently and securely stores and protects information and optimizes information access You can control protect manage and gain new intelligence from your information with the IBM leading edge Information Infrastructure products services and integrated solutions supported by world class expertise and access to top experts from around the world This IBM Redbooks

publication provides an overview of the IBM Information Infrastructure solutions that are designed to help you manage the information explosion and address challenges of information compliance availability retention and security This will lead your company toward improved productivity service delivery and reduced risk while streamlining costs portability more effective for the digital economy Jan Krämer, Pierre Senellart, Alexandre de Streel, 2020-06-15 This study provides recommendations on how to make personal data portability more effective This will truly empower consumers to use the services they want and share their data with whoever they wish and stimulate innovation in Europe With the entry into force of the GDPR European citizens gained new rights notably with data portability But two years later there is still little sign of people exercising this right and of companies offering an easy and convenient service for data portability While the European Commission is finalising its evaluation of the GDPR and closes its consultation on the European data strategy the authors professors Jan Kr mer Pierre Senellart and Alexandre de Streel warn that the current legal framework requires clarifications to better empower European citizens in a data driven society In this study they identify barriers to data portability including the lack of possibilities to import data as well as the lack of common standards and tools to access data as easy as the click of a button The ability to provide users with a centralised dashboard for monitoring and controlling the flow of their data is also critically missing Today consumers do not widely use data portability for reasons that can and should be overcome Making data portability more effective is better for competition for innovation and to empower users stress the authors There should be no second quessing on whether to make data portability more effective the time to act is now The current EU framework encourages data portability but there are legal gaps that the EU should fill The authors insist on the need for detailed guidance on how data portability can be facilitated and on which data is subject to data portability without violating privacy rights They advocate that data provided by users when using a service such as search history i e observed data should clearly be included under the scope of data portability. The authors consider it essential that the obligation to offer standardised Application Programming Interfaces APIs be much more widespread to enable consumers to continuously port their data We believe that standardised APIs that enable continuous data portability is a prerequisite for encouraging more organisations to import personal data and for encouraging more consumers to initiate such transfers explain the authors Projects such as the Data Transfer Project have highlighted that continuous data portability is technically feasible The authors argue that Personal Management Information Systems PIMSs facilitate the complex consent management and offer users a centralised dashboard for monitoring and controlling the flow of their data will have a crucial role to play for the wider adoption of data portability It must be as easy as clicking a button for consumers to continuously share data they created with one provider to another provider This may also require educating and informing users on their rights through information campaigns alongside clear policy measures explain the authors Nevertheless they stress that PIMSs are not likely to find a sustainable business model and thus policy makers should support the emergence of open source projects by

setting common standards for data transfers consent management and identity management Addressing Data Volume, Velocity, and Variety with IBM InfoSphere Streams V3.0 Mike Ebbers, Ahmed Abdel-Gayed, Veera Bhadran Budhi, Ferdiansyah Dolot, Vishwanath Kamat, Ricardo Picone, Joao Trevelin, IBM Redbooks, 2013-03-12 There are multiple uses for big data in every industry from analyzing larger volumes of data than was previously possible to driving more precise answers to analyzing data at rest and data in motion to capture opportunities that were previously lost A big data platform will enable your organization to tackle complex problems that previously could not be solved using traditional infrastructure As the amount of data available to enterprises and other organizations dramatically increases more and more companies are looking to turn this data into actionable information and intelligence in real time Addressing these requirements requires applications that are able to analyze potentially enormous volumes and varieties of continuous data streams to provide decision makers with critical information almost instantaneously IBM InfoSphere Streams provides a development platform and runtime environment where you can develop applications that ingest filter analyze and correlate potentially massive volumes of continuous data streams based on defined proven and analytical rules that alert you to take appropriate action all within an appropriate time frame for your organization This IBM Redbooks publication is written for decision makers consultants IT architects and IT professionals who will be implementing a solution with IBM InfoSphere Streams 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 OptimTM 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 IBM InfoSphere Replication Server and Data Event Publisher Pav Kumar-Chatterjee, 2010-08-18 Design implement and monitor a successful Q replication and Event Publishing project with IBM InfoSphere Replication Server and Data Event Publisher using this book and eBook **Information Governance Principles and Practices for a Big Data Landscape Chuck** Ballard, Cindy Compert, Tom Jesionowski, Ivan Milman, Bill Plants, Barry Rosen, Harald Smith, IBM Redbooks, 2014-03-31 This IBM Redbooks publication describes how the IBM Big Data Platform provides the integrated capabilities that are required for the adoption of Information Governance in the big data landscape As organizations embark on new use cases such as Big Data Exploration an enhanced 360 view of customers or Data Warehouse modernization and absorb ever growing volumes

and variety of data with accelerating velocity the principles and practices of Information Governance become ever more critical to ensure trust in data and help organizations overcome the inherent risks and achieve the wanted value The introduction of big data changes the information landscape Data arrives faster than humans can react to it and issues can quickly escalate into significant events The variety of data now poses new privacy and security risks The high volume of information in all places makes it harder to find where these issues risks and even useful information to drive new value and revenue are Information Governance provides an organization with a framework that can align their wanted outcomes with their strategic management principles the people who can implement those principles and the architecture and platform that are needed to support the big data use cases The IBM Big Data Platform coupled with a framework for Information Governance provides an approach to build manage and gain significant value from the big data landscape Reliability and Performance with IBM DB2 Analytics Accelerator V4.1 Paolo Bruni, Jason Arnold, Leticia Cruz, Jeff Feinsmith, Willie Favero, Anna Griner, James Guo, Chris Harlander, Johannes Kern, Ravi Kumar, Ruiping Li, Andy Perkins, Jonathan Sloan, Steve Speller, Dino Tonelli, IBM Redbooks, 2015-05-11 The IBM DB2 Analytics Accelerator for IBM z OS is a high performance appliance that integrates the IBM zEnterprise infrastructure with IBM PureDataTM for Analytics powered by IBM Netezza technology With this integration you can accelerate data intensive and complex queries in a DB2 for z OS highly secure and available environment DB2 and the Analytics Accelerator appliance form a self managing hybrid environment running online transaction processing and online transactional analytical processing concurrently and efficiently These online transactions run together with business intelligence and online analytic processing workloads DB2 Analytics Accelerator V4 1 expands the value of high performance analytics DB2 Analytics Accelerator V4 1 opens to static Structured Query Language SQL applications and row set processing minimizes data movement reduces latency and improves availability This IBM Redbooks publication provides technical decision makers with an understanding of the benefits of version 4 1 of the Analytics Accelerator with DB2 11 for z OS It describes the installation of the new functions and the advantages to existing analytical processes as measured in our test environment This book also introduces the DB2 Analytics Accelerator Loader V1 1 a tool that facilitates the data population of the DB2 Analytics Accelerator Architecting and Deploying DB2 with BLU Acceleration Whei-Jen Chen, Brigitte Blaser, Marco Bonezzi, Polly Lau, Jean Cristie Pacanaro, Martin Schlegel, Ayesha Zaka, Alexander Zietlow, IBM Redbooks, 2015-05-11 IBM DB2 with BLU Acceleration is a revolutionary technology that is delivered in DB2 for Linux UNIX and Windows Release 10 5 BLU Acceleration delivers breakthrough performance improvements for analytic queries by using dynamic in memory columnar technologies Different from other vendor solutions BLU Acceleration allows the unified computing of OLTP and analytics data inside a single database therefore removing barriers and accelerating results for users With observed hundredfold improvement in guery response time BLU Acceleration provides a simple fast and easy to use solution for the needs of today s organizations quick access to business answers can be

used to gain a competitive edge lower costs and more This IBM Redbooks publication introduces the concepts of DB2 with BLU Acceleration It discusses the steps to move from a relational database to using BLU Acceleration optimizing BLU usage and deploying BLU into existing analytic solutions today with an example of IBM Cognos This book also describes integration of DB2 with BLU Acceleration into SAP Business Warehouse SAP BW and SAP s near line storage solution on DB2 This publication is intended to be helpful to a wide ranging audience including those readers who want to understand the technologies and those who have planning deployment and support responsibilities Getting Started with IBM InfoSphere Optim Workload Replay for DB2 Whei-Jen Chen, Nisanti Mohanraj, Hassi Norlen, Leif Pedersen, Patrick Titzler, Tom Toomire, John Vonau, 2015 This IBM Redbooks publication will help you install configure and use IBM InfoSphere Optim Workload Replay InfoSphere Workload Replay a web based tool that lets you capture real production SQL workload data and then replay the workload data in a pre production environment With InfoSphere Workload Replay you can set up and run realistic tests for enterprise database changes without the need to create a complex client and application infrastructure to mimic your production environment The publication goes through the steps to install and configure the InfoSphere Workload Replay appliance and related database components for IBM DB2 for Linux UNIX and Windows and for DB2 for IBM z OS The capture replay and reporting process including user ID and roles management is described in detail to quickly get you up and running Ongoing operations such as appliance health monitoring starting and stopping the product and backup and restore in your day to day management of the product extensive troubleshooting information and information about how to integrate InfoSphere Workload Replay with other InfoSphere products are covered in separate chapters

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