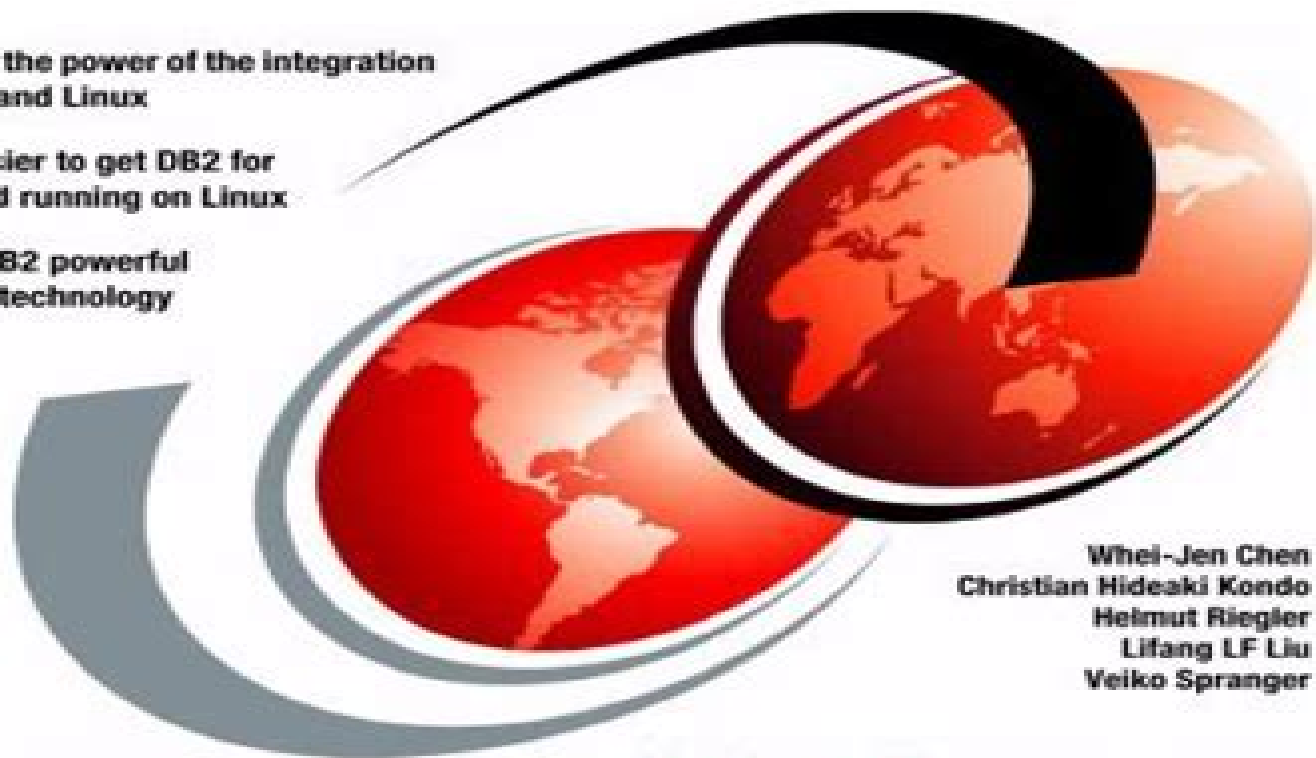


Up and Running with DB2 on Linux

Experience the power of the integration of DB2 9.5 and Linux

Make it easier to get DB2 for LUW up and running on Linux

Leverage DB2 powerful autonomic technology



Whei-Jen Chen
Christian Hideaki Kondo
Helmut Riegler
Lifang LF Liu
Veiko Spranger

Up And Running With Db2 For Linux Ibm Redbooks

**Lydia Parziale,Sandeep Batta,Youssef
Largou,Pablo Paniagua,Cecilia
Vales,IBM Redbooks**

Up And Running With Db2 For Linux Ibm Redbooks:

Up and Running with DB2 on Linux Whei-Jen Chen,Christian Hideaki Kondo,Helmut Riegler,Lifang LF Liu,Veiko Spranger,IBM Redbooks,2008-06-25 Linux is one of the fastest growing server operating platforms within the past few years DB2 has long been known for its technology leadership This IBM Redbooks publication is an informative guide that describes how to effectively integrate DB2 for Linux UNIX and Windows LUW with SUSE and Red Hat Linux operating systems This book provides both introductory and detailed information about installing configuring managing and monitoring DB2 in a Linux environment We describe the DB2 product family and features for Linux and we provide step by step instructions for a single as well as for a multiple partition DB2 system installation and configuration We discuss how to migrate single and multiple partition DB2 to DB2 Version 9.5 and discuss in detail DB2 database administration in a Linux environment procedures and tools for database backup and recovery online maintenance and system monitoring We cover DB2 integrated tools and their features and use We discuss aspects of DB2 application development in the Linux environment and provide general tips about building and running DB2 applications on Linux and the use of DB2 application development tools

Up and Running with DB2 for Linux Whei-Jen Chen,2003 *Achieving High Availability on Linux for System z with Linux-HA Release 2* Lydia Parziale,Antonio Dias,Livio Teixeira Filho,Dulce Smith,Jin VanStee,Mark Ver,IBM Redbooks,2009-04-13 As Linux on System z becomes more prevalent and mainstream in the industry the need for it to deliver higher levels of availability is increasing IBM supports the High Availability Linux Linux HA project which provides high availability functions to the open source community One component of the Linux HA project is the Heartbeat program which runs on every known Linux platform Heartbeat is part of the framework of the Linux HA project This IBM Redbooks publication provides information to help you evaluate and implement Linux HA release 2 by using Heartbeat 2.0 on the IBM System z platform with either SUSE Linux Enterprise Server version 10 or Red Hat Enterprise Linux 5 To begin we review the fundamentals of high availability concepts and terminology Then we discuss the Heartbeat 2.0 architecture and its components We examine some of the special considerations when using Heartbeat 2.0 on Linux on System z particularly Linux on z VM with logical partitions LPARs interguest communication by using HiperSockets™ and Shoot The Other Node In The Head STONITH by using VSMERVE for Simple Network IPL snIPL By reading this book you can examine our environment as we outline our installation and setup processes and configuration We demonstrate an active and passive single resource scenario and a quorum scenario by using a single resource with three guests in the cluster Finally we demonstrate and describe sample usage scenarios

IBM Smart Analytics System Whei-Jen Chen,Rafael Aiello,Silvio Luiz Correia Ferrari,Zohar Nissare-Houssen,IBM Redbooks,2011-08-24 The IBM Smart Analytics System is a fully integrated and scalable data warehouse solution that combines software server and storage resources to offer optimal business intelligence and information management performance for enterprises This IBM Redbooks publication introduces the architecture and

components of the IBM Smart Analytics System family We describe the installation and configuration of the IBM Smart Analytics System and show how to manage the systems effectively to deliver an enterprise class service This book explains the importance of integrating the IBM Smart Analytics System with the existing IT environment as well as how to leverage investments in security monitoring and backup infrastructure We discuss the monitoring tools for both operating systems and DB2 Advance configuration performance troubleshooting and tuning techniques are also discussed This book is targeted at the architects and specialists who need to know the concepts and the detailed instructions for a successful Smart Analytics System implementation and operation IBM Power Systems 775 for AIX and Linux HPC Solution Dino Quintero,Kerry

Bosworth,Puneet Chaudhary,Rodrigo Garcia da Silva,ByungUn Ha,Jose Higino,Marc-Eric Kahle,Tsuyoshi Kamenoue,James Pearson,Mark Perez,Fernando Pizzano,Robert Simon,Kai Sun,IBM Redbooks,2014-03-04 This IBM Redbooks publication contains information about the IBM Power Systems™ 775 Supercomputer solution for AIX and Linux HPC customers This publication provides details about how to plan configure maintain and run HPC workloads in this environment This IBM Redbooks document is targeted to current and future users of the IBM Power Systems 775 Supercomputer consultants IT architects support staff and IT specialists responsible for delivering and implementing IBM Power Systems 775 clustering solutions for their enterprise high performance computing applications **Set up Linux on IBM System z for Production**

Lydia Parziale,Saulo Silva,David Borges De Sousa,Livio Sousa,Junius Mills,Qi Ye,IBM Redbooks,2013-11-25 This IBM Redbooks publication shows the power of IBM System z virtualization and flexibility in sharing resources in a flexible production environment In this book we outline the planning and setup of Linux on System z to move from a development or test environment into production As an example we use one logical partition LPAR with shared CPUs with memory for a production environment and another LPAR that shares some CPUs but also has a dedicated one for production Running in IBM z VM mode allows for virtualization of servers and based on z VM shares can prioritize and control their resources The size of the LPAR or z VM resources depends on the workload and the applications that run that workload We examine a typical web server environment Java applications and describe it by using a database management system such as IBM DB2 Network decisions are examined with regards to VSWITCH shared Open Systems Adapter OSA IBM HiperSockets™ and the HiperPAV or FCP SCSI attachment used with a storage area network SAN Volume Controller along with performance and throughput expectations The intended audience for this IBM Redbooks publication is IT architects who are responsible for planning production environments and IT specialists who are responsible for implementation of production environments

Getting Started with the IBM Smart Analytics System 9600 Lydia Parziale,Gary Crupi,Willie Favero,Dirk Johan,Charles Matula,Kim Patterson,Vikram Saraswathi,IBM Redbooks,2011-04-12 The IBM Smart Analytics System 9600 is a single end to end business analytics solution to accelerate data warehousing and business intelligence initiatives It provides integrated hardware software and services that enable enterprise customers to quickly and cost effectively deploy business changing

analytics across their organizations As a workload optimized system for business analytics it leverages the strengths of the System z platform to drive Significant savings in hardware software operating and people costs to deliver a complete range of data warehouse and BI capabilities Faster time to value with a reduction in the time and speed associated with deploying Business Intelligence Industry leading scalability reliability availability and security Simplified and faster access to the data on System z

Scale up for Linux on IBM Z Lydia Parziale,Edi Lopes Alves,Eric Everson Mendes Marins,IBM Redbooks,2017-12-12 This book was written by IBM IT specialists who have experience implementing IBM Z solutions especially Linux on IBM LinuxONETM LinuxONE or IBM Z servers Therefore the content of this book follows the guidelines from Linux and IBM z VM regarding LinuxONE and IBM Z installations The preferred practices described in this book are gathered from the experiences of those specialists in hundreds of projects at IBM and customer environments This publication provides you with all of the information that you need to decide the best scaling architecture when implementing Linux on IBM Z or LinuxONE This book has the following goals To inform you about x86 sprawl problems To inform you that x86 Vertical Scale out architectures are problematic going forward To provide solutions to x86 server sprawl problems To inform you about the LinuxONE and IBM Z differentiation for each x86 server sprawl problem To provide virtualization and security options for LinuxOne and IBM Z The scaling up and scaling out architectures enable you to scale the capacity of an existing system to attend a sporadic application demand or an application workload This gives you some freedom to operate in the environment However if this activity is performed without correct planning and the correct architecture choice it leads to a server sprawl situation where your environment houses more servers than it should based on its current and predicted requirements Although scaling out on x86 systems is a common form of scaling because of their popularity the x86 systems were originally designed as cheap computers Unfortunately the scale out on x86 can easily become a problem in terms of total cost of ownership TCO when the environment starts to increase in terms of number of physical servers The LinuxONE and IBM Z servers solve the sprawl problem caused by the scaling out of x86 servers and are an excellent choice for cloud mobile big data blockchain analytics and other workloads that require a robust and flexible environment This publication describes the advantages and disadvantages of the scaling options The audience of this publication consists of the following groups Customers IBM Business Partners and IBM consultants planning and installing Linux on IBM Z IBM Z family or x86 platform System administrators administering the Linux Systems If you are a customer considering LinuxONE and IBM Z family as a platform for your applications analytics blockchain cloud or other or a pre sales person read those publications

Modernizing IBM i Applications from the Database up to the User Interface and Everything in Between K.

Nadir Amra,Hernando Bedoya,Tony Cairns,Dan Cruikshank,Rich Diedrich,John Eberhard,Mark Evans,Antonio Florez,Susan Gantner,Jesse Gorzinski,Isaac Ramírez Herrera,Brian May,Michel Mouchon,Jon Paris,Mike Pavlak,Trevor Perry,Pascal Polverini,Jim Ritchhart,Tim Rowe,Jon Rush,Paul Tuohy,Jeroen Van Lommel,Carol Woodbury,IBM Redbooks,2017-05-31 This

IBM Redbooks publication is focused on melding industry preferred practices with the unique needs of the IBM i community and providing a holistic view of modernization This book covers key trends for application structure user interface data access and the database Modernization is a broad term when applied to applications It is more than a single event It is a sequence of actions But even more it is a process of rethinking how to approach the creation and maintenance of applications There are tangible deliveries when it comes to modernization the most notable being a modern user interface UI such as a web browser or being able to access applications from a mobile device The UI however is only the beginning There are many more aspects to modernization Using modern tools and methodologies can significantly improve productivity and reduce long term cost while positioning applications for the next decade It is time to put the past away Tools and methodologies have undergone significant transformation improving functionality usability and productivity This is true of the plethora of IBM tools and the wealth of tools available from many Independent Solution Providers ISVs This publication is the result of work that was done by IBM industry experts and by representatives from many of the ISV Tool Providers Some of their tools are referenced in the book In addition to reviewing technologies based on context there is an explanation of why modernization is important and a description of the business benefits of investing in modernization This critical information is key for line of business executives who want to understand the benefits of a modernization project This book is appropriate for CIOs architects developers and business leaders Related information Making the Case for Modernization IBM Systems Magazine

Implementing, Tuning, and Optimizing Workloads with Red Hat OpenShift on IBM Power Dino Quintero,Tim Simon,Tushar Agrawal,Sambasiva Andaluri,Shahid Ali,Daniel Casali,Munshi Hafizul Haque,Diogo Horta,Shrirang Kulkarni,Nick Lawrence,Laszlo Niesz,Gabriel Padilla,Gustavo Santos,Shiv Tiwari,Sundaragopal Venkatraman,IBM Redbooks,2023-06-09 Enterprises everywhere are challenged to provide new services and environments based on hybrid cloud The new paradigm of using hybrid cloud solutions to meet new business requirements can be challenging This IBM Redbooks publication is designed to show you how to implement a hybrid cloud solution that uses the industry leading hybrid cloud platform Red Hat OpenShift on IBM Power based servers By combining Red Hat OpenShift and IBM Power servers you can create a highly reliable and scalable cloud environment We provide hints and tips about how to install your Red Hat OpenShift cluster and also provide guidance about how to size and tune your environment to meet your user s expectations This publication is suitable for a broad group of readers that are interested in understanding how IBM Power servers can be used in a Red Hat OpenShift environment and how they can take advantage of the benefits that are delivered by an IBM Power based cloud solution that is scalability reliability and security This publication provides implementation details and case studies that make this publication especially helpful to system admins and cloud services implementors **IBM Software Defined Environment** Dino Quintero,William M Genovese,KiWoon Kim,Ming Jun MJ Li,Fabio Martins,Ashish Nainwal,Dusan Smolej,Marcin Tabinowski,Ashu Tiwary,IBM Redbooks,2015-08-14 This IBM Redbooks publication introduces

the IBM Software Defined Environment SDE solution which helps to optimize the entire computing infrastructure compute storage and network resources so that it can adapt to the type of work required In today s environment resources are assigned manually to workloads but that happens automatically in a SDE In an SDE workloads are dynamically assigned to IT resources based on application characteristics best available resources and service level policies so that they deliver continuous dynamic optimization and reconfiguration to address infrastructure issues Underlying all of this are policy based compliance checks and updates in a centrally managed environment Readers get a broad introduction to the new architecture Think integration automation and optimization Those are enablers of cloud delivery and analytics SDE can accelerate business success by matching workloads and resources so that you have a responsive adaptive environment With the IBM Software Defined Environment infrastructure is fully programmable to rapidly deploy workloads on optimal resources and to instantly respond to changing business demands This information is intended for IBM sales representatives IBM software architects IBM Systems Technology Group brand specialists distributors resellers and anyone who is developing or implementing SDE

Practical Migration from x86 to IBM LinuxONE Lydia Parziale,Sandeep Batta,Youssef Largou,Pablo Paniagua,Cecilia Vales,IBM Redbooks,2024-09-25 IBM LinuxONE is a portfolio of hardware software and solutions for an enterprise grade Linux environment It is designed to run more transactions faster and with more security and reliability specifically for the open source community It fully embraces open source based technology The following LinuxONE servers are now available IBM LinuxONE 4 LA1 IBM LinuxONE 4 LA2 IBM LinuxONE 4 AGL and IBM LinuxONE Express Aside from still running SUSE Linux Enterprise Server and Red Hat Enterprise Linux RHEL Servers LinuxONE runs Ubuntu which is popular on x86 hardware Ubuntu which runs the cloud smartphones a computer that can remote control a planetary rover for NASA many market leading companies and the Internet of Things is now available on IBM LinuxONE servers Together these two technology communities deliver the perfect environment for cloud and DevOps Ubuntu 16 04 on LinuxONE offers developers enterprises and Cloud Service Providers a scalable and secure platform for next generation applications that include OpenStack Kernel based Virtual Machine KVM Docker and JuJu The following reasons are why you would want to optimize your servers through virtualization by using LinuxONE Too many distributed physical servers with low utilization A lengthy provisioning process that delays the implementation of new applications Limitations in data center power and floor space High total cost of ownership TCO Difficulty allocating processing power for a dynamic environment This IBM Redbooks publication provides a technical planning reference for IT organizations that are considering migrating from their x86 distributed servers to LinuxONE This book walks you through some of the important considerations and planning issues that you might encounter during a migration project Within the context of a pre existing UNIX based or x86 environment it presents an end to end view of the technical challenges and methods necessary to complete a successful migration to LinuxONE

Leveraging LinuxONE to Maximize Your Data Serving Capabilities Lydia

Parziale, Sam Amsavelu, Dileep Dixith, Gayathri Gopalakrishnan, Pravin Kedia, Manoj Srinivasan Pattabhiraman, David Simpson, IBM Redbooks, 2025-03-19 Data modernization refers to initiatives or processes that lead to more pertinent and precise data as well as quicker and more effective data processing and analysis thereby enhancing both organizational management and regulatory compliance while catering to industrial and societal requirements This IBM Redbooks publication describes how to maximize the data serving capabilities on LinuxONE and how you can take advantage of these capabilities to modernize your enterprise We start by describing the value of using and migrating your databases to IBM LinuxONE in order to maximize your data serving capabilities We describe information on migrating your current databases to LinuxONE in the following chapters Oracle and LinuxONE on page 11 Db2 and LinuxONE on page 45 Postgres and LinuxONE on page 87 MongoDB and LinuxONE on page 119 Open source data base management systems and LinuxONE on page 135 We also describe using containers and the benefits of automation by using containers see section 7 2 Benefits of automation when using containers on page 139 In Appendix A Application use case geospatial data on page 285 we demonstrate geospatial processing when using PostGIS and FUJITSU Enterprise Postgres on IBM LinuxONE as well as using MongoDB as a Service FUJITSU Enterprise Postgres on IBM LinuxONE supports PostGIS functions and on a high performance platform with scalability and advanced security Appendix B MongoDB as a service with IBM LinuxONE on page 335 demonstrates the benefits of using IBM LinuxONE in your enterprise This chapter describes how IBM LinuxONE combined with IBM Storage provides high availability HA performance and security by using a sample anonymized client environment and includes a use case that demonstrates setting up a database as a service that can be replicated on a much larger scale across multiple client sites **IBM Midmarket Software Buying and Selling Guide** LindaMay Patterson, IBM Redbooks, 2010-07-12 The IBM Midmarket Software Buying and Selling Guide is tailored specifically to help the management and IT staff of small and midsize businesses evaluate how the IBM midmarket portfolio can provide simple and cost effective solutions to common business problems Along with a midmarket customer focus this IBM Redpaper™ publication is designed to help IBM teams and Business Partners be more effective in serving small and midsize businesses We illustrate how IBM software for the midmarket can help businesses use the Web to reduce expenses improve customer service and expand into new markets We cover the IBM software offering for the midmarket which includes what the software does the platforms it runs on where to find more information and how it can help your business become more profitable IBM Business Partners often keep a printed copy of this guide in their briefcases for software references Customers can view this guide online and look up software value messages and IBM product family offering comparisons IBM Sales Representatives can print parts of this guide as leave behinds for customers to give them extra collateral on midmarket software of interest To make sure that you have the latest version of this guide download it from this web address <http://www.redbooks.ibm.com/abstracts/redp3975.html> Open **SAP Backup using Tivoli Storage Manager** Budi

Darmawan,Miroslav Dvorak,Dhruv Harnal,Gerson Makino,Markus Molnar,Rennad Murugan,Marcos Silva,IBM Redbooks,2013-04-26 In this IBM Redbooks publication we give an overview of different data management topics related to a typical SAP data center The intrinsic functionality of SAP is not designed to completely handle all the tasks of a data center by itself but the SAP system offers several interface possibilities to attach external tools to it to accomplish this task We explain SAP basic concepts and the issues with SAP data management We introduce Tivoli Storage Manager and all of its products that are related to SAP data management We provide some comparison between database backup and recovery tools Finally we discuss data archiving using IBM DB2 CommonStore for SAP and discuss high availability requirements and disaster recovery considerations The second part of this book discusses a practical implementation of SAP backup and recovery with Tivoli Storage Manager We implement this setup on two separate SAP systems one running DB2 and the other running Oracle database We also implement LAN free backup and FlashCopy scenarios In the sample implementation section we show many different tasks such as backup and restore database recovery backup monitoring and tuning We also cover some advanced backup availability considerations such as split mirror backup and standby databases This book helps individuals that operate an SAP environment to devise a strategy for a sound and comprehensive data backup solution using the IBM Tivoli Storage Management product family

Turning Data into Insight with IBM Machine Learning for z/OS

Samantha Buhler,Guanjun Cai,John Goodyear,Edrian Irizarry,Nora Kissari,Zhuo Ling,Nicholas Marion,Aleksandr Petrov,Junfei Shen,Wanting Wang,He Sheng Yang,Dai Yi,Xavier Yuen,Hao Zhang,IBM Redbooks,2018-09-11 The exponential growth in data over the last decade coupled with a drastic drop in cost of storage has enabled organizations to amass a large amount of data This vast data becomes the new natural resource that these organizations must tap in to innovate and stay ahead of the competition and they must do so in a secure environment that protects the data throughout its lifecycle and data access in real time at any time When it comes to security nothing can rival IBM Z the multi workload transactional platform that powers the core business processes of the majority of the Fortune 500 enterprises with unmatched security availability reliability and scalability With core transactions and data originating on IBM Z it simply makes sense for analytics to exist and run on the same platform For years some businesses chose to move their sensitive data off IBM Z to platforms that include data lakes Hadoop and warehouses for analytics processing However the massive growth of digital data the punishing cost of security exposures as well as the unprecedented demand for instant actionable intelligence from data in real time have convinced them to rethink that decision and instead embrace the strategy of data gravity for analytics At the core of data gravity is the conviction that analytics must exist and run where the data resides An IBM client eloquently compares this change in analytics strategy to a shift from moving the ocean to the boat to moving the boat to the ocean where the boat is the analytics and the ocean is the data IBM respects and invests heavily on data gravity because it recognizes the tremendous benefits that data gravity can deliver to you including reduced cost and minimized security risks

IBM Machine Learning for z OS is one of the offerings that decidedly move analytics to Z where your mission critical data resides In the inherently secure Z environment your machine learning scoring services can co exist with your transactional applications and data supporting high throughput and minimizing response time while delivering consistent service level agreements SLAs This book introduces Machine Learning for z OS version 1 1 0 and describes its unique value proposition It provides step by step guidance for you to get started with the program including best practices for capacity planning installation and configuration administration and operation Through a retail example the book shows how you can use the versatile and intuitive web user interface to quickly train build evaluate and deploy a model Most importantly it examines use cases across industries to illustrate how you can easily turn your massive data into valuable insights with Machine Learning for z OS

Scale up for Linux on LinuxONE Lydia Parziale,Eduardo Simoes Franco,Felipe Cardeneti Mendes,IBM Redbooks,2019-07-17 This book was written by IBM IT specialists who have experience implementing Linux solutions on IBM LinuxONETM LinuxONE The contents of this book follow the guidelines from Linux regarding LinuxONE installations The preferred practices that are described in this book are gathered from the experiences of those specialists in hundreds of projects at IBM and customer environments This IBM Redbooks publication provides you with the information needed in making a decision on scaling architecture when implementing Linux on LinuxONE This book has the following goals To inform you about x86 sprawl problems To inform you that x86 Vertical Scale out architectures are problematic going forward To provide solutions to x86 server sprawl problems To inform you about the LinuxONE solution for each x86 server sprawl problem To provide virtualization and security options for LinuxOne The scaling up and scaling out architectures enable you to scale the capacity of an existing system to accommodate sporadic application demands or application workloads This provides some freedom to operate in the environment However if this activity is performed without correct planning and the correct architecture choice it leads to server sprawl where your environment houses more servers than it should based on its current and predicted requirements This can potentially cause your enterprise to both waste resources and increase costs Although scaling out on x86 systems is a common form of growth because of inexpensive x86 systems the scale out can easily become a problem in terms of total cost of ownership TCO when the environment starts to increase the number of physical servers and the resources needed to maintain them LinuxONE servers solve the sprawl problem caused by the scaling out of x86 servers and are an excellent choice for cloud mobile big data blockchain analytics and other workloads that require a robust and flexible environment This publication describes the advantages and disadvantages of the LinuxONE scaling option The audience for this publication consists of the following groups Customers IBM Business Partners IT architects and IT Specialists planning and installing Linux on LinuxONE System administrators managing the Linux Systems

Performance Management: Using IBM InfoSphere Optim Performance Manager and Query 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 Optim™ 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 query 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.

IBM PowerVM Virtualization Introduction and Configuration Scott Vetter, Mel Cordero, Lucio Correia, Hai Lin, Vamshikrishna Thatikonda, Rodrigo Xavier, IBM Redbooks, 2017-06-09. This IBM Redbooks publication provides an introduction to PowerVM™ virtualization technologies on Power System servers. PowerVM is a combination of hardware, firmware, and software that provides CPU, network, and disk virtualization. These are the main virtualization technologies: POWER7, POWER6, and POWER5 hardware; POWER Hypervisor; Virtual I/O Server. Though the PowerVM brand includes partitioning management software and other offerings, this publication focuses on the virtualization technologies that are part of the PowerVM Standard and Enterprise Editions. This publication is also designed to be an introduction guide for system administrators, providing instructions for these tasks: Configuration and creation of partitions and resources on the HMC; Installation and configuration of the Virtual I/O Server; Creation and installation of virtualized partitions. Examples using AIX, IBM i, and Linux. This edition has been updated with the latest updates available and an improved content organization.

Co-locating Transactional and Data Warehouse Workloads on System z Mike Ebberts, Dino Tonelli, Jason Arnold, Patric Becker, Yuan-Chi Chang, Willie Favero, Shantanu 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 is 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 is another book focused specifically on that

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