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IBM Systems Director 6.3 Best Practices: Installation and Configuration IBM

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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 System Storage Open Systems Tape Encryption Solutions IBM Redbooks

In this IBM® Redbooks® publication we discuss IBM Systems Director Navigator for i, which is a Web console interface for IBM i administration where you can work with the Web-enabled tasks of System i® Navigator. IBM Systems Director Navigator for i includes a number of welcome pages that allow you to quickly find the task that you want to perform. The IBM Systems Director Navigator for i interface is not just a set of URL addressable tasks, but is a robust Web console from which you can manage your IBM i system. However, the System i Navigator Tasks on the Web, which are a set of URL-addressable tasks, can be accessed by using the URL or from within the IBM Systems Director Navigator for i interface. The

information in this book is intended to help you start using the Web-based console, IBM Systems Director Navigator for i, by providing you with a look at the new interface as well as tips for working with various parts of the new console.

Building an Ensemble Using IBM zEnterprise Unified Resource

Manager IBM Redbooks This IBM® Redbooks® publication discusses IBM System Storage Open Systems Tape Encryption solutions. It specifically describes Tivoli Key Lifecycle Manager (TKLM) Version 2, which is a Java software program that manages keys enterprise-wide and provides encryption-enabled tape drives with keys for encryption and decryption. The book explains various methods of managing IBM tape encryption. These methods differ in where the encryption policies reside, where key management is performed, whether a key manager is required, and if required, how the tape drives communicate with it.

The security and accessibility characteristics of encrypted data create considerations for clients which do not exist with storage devices that do not encrypt data. Encryption key material must be kept secure from disclosure or use by any agent that does not have authority to it; at the same time it must be accessible to any agent that has both the authority and need to use it at the time of need. This book is written for readers who need to understand and use the various methods of managing IBM tape encryption.

Implementing PowerHA for IBM i IBM Redbooks Managing IT systems is difficult. Virtualization brings numerous benefits to the datacenter and system administrators. However, it also creates a new set of choices. More choice implies more decisions, and thus an increased management responsibility. Furthermore, the move toward cloud computing, with a service-based acquisition and delivery model, requires that datacenter managers take a

holistic view of the resources that they manage and the actors that access the data center. IBM® Service Delivery Manager addresses this problem domain. Delivered as a set of appliances, it automates provisioning, deprovisioning, metering, and management of an IT platform, and the services it provides. It addresses the needs of both IT management and service users. This IBM Redbooks® publication is intended for technical professionals who want to understand and deploy IBM ISDM Cloud on a Power platform.

IBM SmartCloud Virtual Storage Center IBM Redbooks

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.

Implementing Systems Management of IBM PureFlex System IBM Redbooks

This IBM® Redbooks® publication presents a best practices guide for DB2® and InfoSphere™ Warehouse performance on a AIX® 6L with Power Systems™ virtualization environment. It covers Power hardware features such as PowerVM™, multi-page support, Reliability, Availability, and Serviceability (RAS) and how to best exploit them with DB2 LUW workloads for both transactional and data warehousing systems. The popularity and reach of DB2 and InfoSphere Warehouse has grown in recent years. Enterprises are relying more on these products for their mission-critical transactional and data warehousing workloads. It is critical that these products be supported by an adequately planned infrastructure. This publication offers a reference architecture to build a DB2 solution for transactional and data warehousing workloads using the

rich features offered by Power systems. IBM Power Systems have been leading players in the server industry for decades. Power Systems provide great performance while delivering reliability and flexibility to the infrastructure. This book presents a reference architecture to build a DB2 solution for transactional and data warehousing workloads using the rich features offered by Power systems. It aims to demonstrate the benefits DB2 and InfoSphere Warehouse can derive from a Power Systems infrastructure and how Power Systems support these products. The book is intended as a guide for a Power Systems specialist to understand the DB2 and InfoSphere Warehouse environment and for a DB2 and InfoSphere Warehouse specialist to understand the facilities available for Power Systems supporting these products.

IBM Smart Analytics Cloud IBM Redbooks

This IBM® Redbooks® publication describes IBM PureApplication™ System preferred practices that are based on IBM client and Business Partner experience. It explains how PureApplication System enables industries to consolidate workloads, increase efficiency, automate routine processes, reduce costs, and become more agile to respond to continually changing business needs. This book is particularly useful to solution specialists, system

or software architects, and the IT teams who implement PureApplication System cloud services.

Research and Development in E-Business through Service-Oriented Solutions IBM Redbooks

This IBM® Redbooks® publication represents a compilation of best practices for deploying and configuring the IBM System Storage® DS5000 Series family of products. This book is intended for IBM technical professionals, Business Partners, and customers responsible for the planning, deployment, and maintenance of the IBM System Storage DS5000 Series family of products. We realize that setting up DS5000 Storage Servers can be a complex task. There is no single configuration that will be satisfactory for every application or situation. First, we provide a conceptual framework for understanding the hardware in a Storage Area Network. Then, we offer our guidelines, hints, and tips for the physical installation, cabling, and zoning, using the Storage Manager setup tasks. Next, we provide a quick guide to help you install and configure the DS5000 using best practices. After that, we turn our attention to the performance and tuning of various components and features, including numerous

guidelines. We look at performance implications for various application products such as IBM DB2®, Oracle, IBM Tivoli® Storage Manager, Microsoft SQL server, and in particular, Microsoft Exchange server. Then we review the various tools available to simulate workloads and to measure, collect, and analyze performance data. We also consider the IBM AIX® environment, including IBM High Availability Cluster Multiprocessing (HACMP™) and IBM General Parallel File System (GPFS™). This edition of the book also includes guidelines for managing and using the DS5000 with the IBM System Storage SAN Volume Controller (SVC) and IBM Storwize® V7000.

Cloud Computing

Infrastructure on IBM Power Systems: Getting started with ISDM IBM Redbooks

This IBM Redbooks® publication presents a Smart Analytics Cloud. The IBM Smart Analytics Cloud is an IBM offering to enable delivery of business intelligence and analytics at the customer location in a private cloud deployment. The offering leverages a combination of IBM hardware, software and services to offer customers a complete solution that is enabled at their site. In this publication, we provide the background and product

information for decision-makers to proceed with a cloud solution. The content ranges from an introduction to cloud computing to details about our lab implementation. The core of the book discusses the business value, architecture, and functionality of a Smart Analytics Cloud. To provide deeper perspective, documentation is also provided about implementation of one specific Smart Analytics Cloud solution that we created in our lab environment. Additionally, we also describe the IBM Smart Analytics Cloud service offering that can help you create your own Smart Analytics cloud solution that is tailored to your business needs. **IBM PowerHA SystemMirror Standard Edition 7.1.1 for AIX Update** IBM Redbooks

As we move towards becoming a smarter planet and the world becomes more instrumented, interconnected, and intelligent, the demands for data center resources are increasing rapidly. Smaller and more densely packed servers providing greater amounts of computing power can substantially increase power and cooling needs, while growing data volumes necessitate larger storage and network bandwidth capacities. Environmental and regulatory requirements can introduce additional limits on carbon emissions and water consumption. To satisfy these demands while keeping costs in check, our data centers need to be smarter as well. Comprehensive views of data center inventories,

operational and environmental conditions, and consumption across multiple capacity types that span both facilities and IT are required. You can achieve greater efficiency using hardware, software, services, and design both in facilities and IT, but you need a comprehensive data center strategy to tie them together and thus obtain a complete picture of your data center environments. This IBM® Redpaper™ publication discusses important considerations when creating and implementing your smarter data center strategy. Notable techniques, best practices, and technological advances that can become critical components of success are included, along with methods for bringing them together to gain in-depth knowledge of data center operations. With such insight comes increased resiliency, rapid responsiveness, profitable access to detailed analytics, and reliable planning for the future. Although not all-inclusive, this document provides a guide to getting started, points you to additional sources of information, and suggests ways IBM can partner with you in your pursuit of a smarter data center.

IBM Systems Director 6.3 Best Practices IBM Redbooks

As businesses are continuously developing new services, procedures, and standards, electronic business has emerged into an important aspect of the science field by providing various applications through efficiently and rapidly

processing information among business partners. Research and Development in E-Business through Service-Oriented Solutions highlights the main concepts of e-business as well as the advanced methods, technologies, and aspects that focus on technical support. This book is an essential reference source of professors, students, researchers, developers, and other industry experts in order to provide a vast amount of specialized knowledge sources for promoting e-business.

IBM Optim Performance Manager for DB2 for Linux, UNIX, and Windows IBM Redbooks

IBM®, as a result of its recent product introduction of the IBM System Storage™ N series, has become more tightly integrated with network-attached storage (NAS), exploiting the backup and recovery features of the N series and Network Appliance™ storage systems. This IBM Redbooks® publication provides detailed descriptions and setup instructions, practical examples, and best practices for backing up the IBM System Storage N series

using the IBM Tivoli® Storage Manager. This book includes descriptions and instructions for using the latest enhancements made to IBM Tivoli Storage Manager, specifically for the IBM System Storage N series and Network Appliance storage systems. You will learn how to configure and set up the IBM System Storage N series and IBM Tivoli Storage Manager Version 5.3 and 6.1 using NDMP backup and restore functions. We address the following topics: -- Configuring the N series for Network Data Management Protocol (NDMP) usage -- Using the IBM Tivoli Storage Manager software -- Backing up qtrees -- Single folder backup -- Single file/folder restore -- Restoring using NDMP via GUI and command-line interface -- Restoring from NDMP backup to an alternative site/location on N series systems -- Integrating with Snapshot technology and SnapVault -- Using SnapShot differencing -- Using SnapMirror® to Tape

Best Practices for DB2 on AIX 6.1 for POWER Systems IBM Redbooks

This IBM® Redbooks® publication explains how to configure and manage independent disk pool (IASP) functionality of IBM i 6.1. It is

designed to help IBM technical professionals, business partners, and customers understand and implement independent disk pools in the IBM i 6.1. In addition, this publication provides the background information that is necessary to plan, implement, and customize this functionality to your particular environment. It provides guidance on running user applications with either application data or most application objects residing in an independent disk pool. Considering that you can also use independent disk pools in a cluster environment, this publication shows you the basic steps to make your independent disk pool switchable between two Power Systems™ servers or a single server with multiple LPARs. Independent auxiliary storage pools have many business and technical advantages for Power Systems using IBM i. Not only are independent auxiliary storage pools (IASPs) easy to create and maintain, most applications can use them by simple work management changes. IASPs can provide immediate benefits to your enterprise.

z/VM and Linux on IBM System z: The Virtualization Cookbook for Red Hat Enterprise Linux 6.0

This IBM® Redbooks® publication describes how to create Linux® virtual servers

in IBM z/VM® on IBM System z® hardware. This book adopts a cookbook format that provides a concise, repeatable set of procedures for installing and configuring z/VM in a logical partition (LPAR) and then installing and customizing Linux. You need an IBM System z LPAR with the associated resources, z/VM V6.1 media, and a Linux distribution. This book assumes that you have a general familiarity with System z technology and terminology. It does not assume an in-depth understanding of z/VM and Linux. It is written for those clients who want to get a quick start with z/VM and Linux on the mainframe.

IBM Systems Director VMControl Implementation Guide on IBM Power Systems

IBM Redbooks
The IBM® Distributed Virtual Switch 5000V (DVS 5000V) is a software-based network switching solution that is designed for use with the virtualized network resources in a VMware enhanced data center. It works with VMware vSphere and ESXi 5.0 and beyond to provide an IBM Networking OS management plane and advanced Layer 2 features in the control and data planes. It provides a large-scale, secure, and dynamic integrated virtual and physical environment for efficient virtual machine (VM) networking that is

aware of server virtualization events, such as VMotion and Distributed Resource Scheduler (DRS). The DVS 5000V interoperates with any 802.1Qbg compliant physical switch to enable switching of local VM traffic in the hypervisor or in the upstream physical switch. Network administrators who are familiar with IBM System Networking switches can manage the DVS 5000V just like IBM physical switches by using advanced networking, troubleshooting, and management features to make the virtual switch more visible and easier to manage. This IBM Redbooks® publication helps the network and system administrator install, tailor, and quickly configure the IBM Distributed Virtual Switch 5000V (DVS 5000V) for a new or existing virtualization computing environment. It provides several practical applications of the numerous features of the DVS 5000V, including a step-by-step guide to deploying, configuring, maintaining, and troubleshooting the device. Administrators who are already familiar with the CLI interface of IBM System Networking switches will be comfortable with the DVS 5000V. Regardless of whether the reader has previous experience with IBM System Networking, this publication is designed to help you get the DVS 5000V functional quickly, and provide a conceptual explanation of how the DVS 5000V works in tandem with VMware.

IBM System z Personal Development Tool: Volume 1 Introduction and Reference
IBM Redbooks

Lenovo System x® and BladeCenter® servers and Lenovo Flex System™ compute nodes help to deliver a dynamic infrastructure that provides leadership quality and service that you can trust. This document (simply known as xREF) is a quick reference guide to the specifications of the currently available models of each System x and BladeCenter server. Each page can be used in a stand-alone format and provides a dense and comprehensive summary of the features of that particular server model. Links to the related Product Guide are also provided for more information. An easy-to-remember link you can use to share this guide: <http://lenovopress.com/xref>

Also available is xREF for Products Withdrawn Prior to 2012, a document that contains xREF sheets of System x, BladeCenter, and xSeries servers, and IntelliStation workstations that were withdrawn from marketing prior to 2012. Changes in the May 18 update: Added the Flex System Carrier-Grade Chassis. See the Summary of changes in the document for a complete change history.

IBM PowerVM Virtualization Active Memory Sharing IBM Redbooks

This IBM® Redbooks® publication covers the IBM System Storage® SAN32B-E4 Encryption Switch, which is a high-performance stand-alone

device designed to protect data-at-rest in mission-critical environments. In addition to helping IT organizations achieve compliance with regulatory mandates and meeting industry standards for data confidentiality, the SAN32B-E4 Encryption Switch also protects them against potential litigation and liability following a reported breach. Data is one of the most highly valued resources in a competitive business environment. Protecting that data, controlling access to it, and verifying its authenticity while maintaining its availability are priorities in our security-conscious world. Increasing regulatory requirements also drive the need for adequate data security. Encryption is a powerful and widely used technology that helps protect data from loss and inadvertent or deliberate compromise. In the context of data center fabric security, IBM provides advanced encryption services for Storage Area Networks (SANs) with the IBM System Storage SAN32B-E4 Encryption Switch. The switch is a high-speed, highly reliable hardware device that delivers fabric-based encryption services to protect data assets either selectively or on a comprehensive basis. The 8 Gbps SAN32B-E4 Fibre Channel Encryption Switch scales nondisruptively, providing from 48 up to 96

Gbps of encryption processing power to meet the needs of the most demanding environments with flexible, on-demand performance. It also provides compression services at speeds up to 48 Gbps for tape storage systems. Moreover, it is tightly integrated with one of the industry-leading, enterprise-class key management systems, the IBM Tivoli® Key Lifecycle Manager (TKLM), which can scale to support key life-cycle services across distributed environments.

WebSphere Cloudburst Appliance and PowerVM IBM Redbooks

For the first time it is possible to deploy an integrated hardware platform that brings mainframe and distributed technologies together: a system that can start to replace individual islands of computing and that can work to reduce complexity, improve security, and bring applications closer to the data that they need. With the zEnterprise System a new concept in IT infrastructures is being introduced: zEnterprise ensembles. A zEnterprise ensemble is a collection of highly virtualized diverse systems that can be managed as a single logical entity where diverse workloads can be deployed. Ensembles, together with the virtualization, flexibility, security, and management capabilities provided by the zEnterprise

System are key to solving the problems posed by today's IT infrastructure. The zEnterprise System consists of three components: - IBM® zEnterprise Central Processor Complex (CPC) The zEnterprise CPC can either be a zEnterprise 196 (z196) or a zEnterprise 114 (z114). Both zEnterprise CPCs offer z/OS, z/VSE, and z/TPF operating systems, as well as the ability to run many virtualized Linux servers under the z/VM operating system. - IBM zEnterprise BladeCenter Extension (zBX) The zBX provides the capability to run the wide variety of applications typically found in UNIX and x86 architectures. The zBX supports select POWER7 blades running AIX and System x blades running Linux on System x and Microsoft Windows. - IBM zEnterprise Unified Resource Manager Unified Resource Manager runs in the Hardware Management Console (HMC). It provides integrated management across all elements of the zEnterprise System. This IBM Redbooks® publication discusses how to plan and implement an ensemble, using the zEnterprise Unified Resource Manager. This book assumes a knowledge of IT systems, networks, and storage devices. IBM Redbooks IBM® System Storage® Gen 5 fabric backbones are among the industry's most powerful

Fibre Channel switching infrastructure offerings. They provide reliable, scalable, and high-performance foundations for mission-critical storage. These fabric backbones also deliver enterprise connectivity options to add support for IBM FICON® connectivity, offering a high-performing and reliable FICON infrastructure with fast and scalable IBM System z® servers. Designed to increase business agility while providing nonstop access to information and reducing infrastructure and administrative costs, Gen 5 Fibre Channel fabric backbones deliver a new level of scalability and advanced capabilities to this robust, reliable, and high-performance technology. Although every network type has unique management requirements, most organizations face similar challenges managing their network environments. These challenges can include minimizing network downtime, reducing operational expenses, managing application service level agreements (SLAs), and providing robust security. Until now, no single tool could address these needs across different network types. To address this issue, the IBM Network Advisor management tool provides comprehensive management for data, storage, and converged networks. This single application can deliver end-to-end visibility and insight across different network types

by integrating with Fabric Vision technology; it supports Fibre Channel SANs, including Gen 5 Fibre Channel platforms, IBM FICON, and IBM b-type SAN FCoE networks. In addition, this tool supports comprehensive lifecycle management capabilities across different networks through a simple, seamless user experience. This IBM Redbooks® publication introduces the concepts, architecture, and basic implementation of Gen 5 and IBM Network Advisor. It is aimed at system administrators, and pre- and post-sales support staff.

[IBM PowerVM Virtualization Managing and Monitoring](#)
IBM Redbooks

In a traditional deployment model, software is installed on a physical server, and it is configured for the particular data center environment. The cloud deployment model requires that the dependency on a specific hardware configuration is severed. This IBM® Redbooks® publication guides you through the transition from the traditional application deployment model to the cloud-friendly deployment model. It explains how to achieve these goals by packaging the software stacks into industry standard virtual appliances. A key part of this transition involves using the IBM Image Construction and Composition Tool. This tool is

the IBM tool for creating virtualized workloads that target several private cloud deployment platforms, including platforms from IBM and not from IBM. In fact, this tool is unique in its ability to support such a wide range of cloud offerings. It is also the only tool in the marketplace that can create virtual appliances for both x86 and IBM Power hardware architectures. This book provides an in-depth look at the capabilities and internal workings of Image Construction and Composition Tool. It focuses on the capabilities of this tool, which target the virtualization and cloud offerings of IBM Systems and Technology Group. These offerings include IBM Systems Director VMControl™, IBM SmartCloud® Entry, and IBM PureFlex™ System with IBM Flex System Manager™ appliance. The Image Construction and Composition Tool also has a much richer set of capabilities. Specifically, it supports IBM Workload Deployer, IBM PureApplication™ Systems, and IBM SmartCloud Provisioning. This publication targets software architects, cloud solutions architects, and cloud administrators. Its goal is to provide you with the expert-level skills required to package the existing and newly created applications into self-

configurable, smart virtual appliances. Related publication: Smart Virtual Appliances Made Easy with IBM Image Construction and Composition Tool, TIPS1037