

## Ibm Configuration And Options Guide

IBM Systems Director 6.3 Best Practices: Installation and Configuration  
A Guide to the IBM Clustered Network File System  
IBM WebSphere Application Server 8.0 Administration Guide  
IBM Spectrum Scale Erasure Code Edition: Planning and Implementation Guide  
IBM System Storage N series Software Guide  
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Implementing the IBM Storwize  
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IBM System Storage DS3000 The Practical Guide to the IBM Personal Computer AT  
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LPIC-1: Linux Professional Institute Certification Study Guide  
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Addressing Identity, Access and Compliance Requirements using IBM Tivoli Identity and Access Assurance  
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IBM Tivoli Storage Productivity Center V5.1 Technical Guide  
IBM Power Systems HMC Implementation and Usage Guide  
IBM Operational Decision Management V8.0 Performance Tuning Guide  
IBM Midrange System Storage Hardware Guide  
IBM Midrange System Storage Implementation and Best Practices Guide  
IBM System Storage DS3500 Introduction and Implementation Guide  
xREF: System x Reference  
IBM zEnterprise 196 Configuration Setup  
IBM i and IBM Storwize Family: A Practical Guide to Usage Scenarios

### **IBM Systems Director 6.3 Best Practices: Installation and Configuration**

This IBM® Redpaper™ publication given an overview and technical introduction to IBM Power Systems™ RAID solutions. The book is organized to start with an introduction to Redundant Array of Independent Disks (RAID), and various RAID levels with their benefits. A brief comparison of Direct Attached Storage (DAS) and networked storage systems such as SAN / NAS is provided with a focus on emerging applications that typically use the DAS model over networked storage models. The book focuses on IBM Power Systems I/O architecture and various SAS RAID adapters that are supported in IBM POWER8™ processor-based systems. A detailed description of the SAS adapters, along with their feature comparison tables, is included in Chapter 3, "RAID adapters for IBM Power Systems" on page 45. The book is aimed at readers who have the responsibility of configuring IBM Power Systems for individual solution requirements. This audience includes IT Architects, IBM Technical Sales Teams, IBM Business Partner Solution Architects and Technical Sales teams, and systems administrators who need to understand

the SAS RAID hardware and RAID software solutions supported in POWER8 processor-based systems.

### **A Guide to the IBM Clustered Network File System**

This IBM® Redbooks® publication represents a compilation of best practices for deploying and configuring IBM Midrange System Storage™ servers, which include the DS4000® and the DS5000 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 Midrange System Storage family of products. We realize that setting up DS4000 and 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. 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 DB2®, Oracle, Tivoli® Storage Manager, Microsoft® SQL server, and in particular, Microsoft Exchange with IBM Midrange System Storage servers. Then we review the various tools available to simulate workloads and to measure, collect, and analyze performance data. We also consider the AIX® environment, including High Availability Cluster Multiprocessing (HACMP™) and General Parallel File System (GPFS™). Finally, we provide a quick guide to the storage server installation and configuration using best practices. This edition of the book also includes guidelines for managing and using the DS4000 and DS5000 with the IBM System Storage SAN Volume Controller (SVC).

### **IBM WebSphere Application Server 8.0 Administration Guide**

The IBM Lotus Sametime 8.5.2 Administration Guide uses a practical, no-nonsense approach to give you the essential information you need. Using realistic scenarios, you learn how to configure and maintain your environment to meet your needs and take advantage of the flexibility offered in Sametime 8.5.2. If you are responsible for installing and administering Sametime 8.5.2, then this book is for you. If you're completely new to Sametime administration, this book will serve as your roadmap. If you're making the jump from a prior version of Sametime, then you'll see how Sametime 8.5.2 differs and how you work with the new configuration. Even if you already have Sametime 8.5.2 up and running, this guide will answer those questions you may still have of why and how the various server components work.

### **IBM Spectrum Scale Erasure Code Edition: Planning and Implementation Guide**

Note: This is a republication of IBM Spectrum Archive Enterprise Edition V1.2.6: Installation and Configuration Guide with new book number SG24-8445 to keep the content available on the Internet along with the recent publication IBM Spectrum Archive Enterprise Edition V1.3.0: Installation and Configuration Guide, SG24-8333. This IBM® Redbooks® publication helps you with the planning, installation, and

configuration of the new IBM Spectrum™ Archive V1.2.6 for the IBM TS3310, IBM TS3500, IBM TS4300, and IBM TS4500 tape libraries. IBM Spectrum Archive™ EE enables the use of the LTFS for the policy management of tape as a storage tier in an IBM Spectrum Scale™ based environment. It helps encourage the use of tape as a critical tier in the storage environment. This is the sixth edition of IBM Spectrum Archive Installation and Configuration Guide. IBM Spectrum Archive EE can run any application that is designed for disk files on a physical tape media. IBM Spectrum Archive EE supports the IBM Linear Tape-Open (LTO) Ultrium 8, 7, 6, and 5 tape drives in IBM TS3310, TS3500, TS4300, and TS4500 tape libraries. In addition, IBM TS1155, TS1150, and TS1140 tape drives are supported in TS3500 and TS4500 tape library configurations. IBM Spectrum Archive EE can play a major role in reducing the cost of storage for data that does not need the access performance of primary disk. The use of IBM Spectrum Archive EE to replace disks with physical tape in tier 2 and tier 3 storage can improve data access over other storage solutions because it improves efficiency and streamlines management for files on tape. IBM Spectrum Archive EE simplifies the use of tape by making it transparent to the user and manageable by the administrator under a single infrastructure. This publication is intended for anyone who wants to understand more about IBM Spectrum Archive EE planning and implementation. This book is suitable for IBM clients, IBM Business Partners, IBM specialist sales representatives, and technical specialists.

### **IBM System Storage N series Software Guide**

Organizations of all sizes are faced with the challenge of managing massive volumes of increasingly valuable data. However, storing this data can be costly, and extracting value from the data is becoming more and more difficult. IT organizations have limited resources, but must stay responsive to dynamic environments and act quickly to consolidate, simplify, and optimize their IT infrastructures. The IBM® Storwize® V3700 system provides a solution that is affordable, easy to use, and self-optimizing, which enables organizations to overcome these storage challenges. Storwize V3700 delivers efficient, entry-level configurations that are specifically designed to meet the needs of small and midsize businesses. Designed to provide organizations with the ability to consolidate and share data at an affordable price, Storwize V3700 offers advanced software capabilities that are usually found in more expensive systems. Built on innovative IBM technology, Storwize V3700 addresses the block storage requirements of small and midsize organizations, Storwize V3700 is designed to accommodate the most common storage network technologies. This design enables easy implementation and management. Storwize V3700 includes the following features: Web-based GUI provides point-and-click management capabilities. Internal disk storage virtualization enables rapid, flexible provisioning and simple configuration changes. Thin provisioning enables applications to grow dynamically, but only use space they actually need. Enables simple data migration from external storage to Storwize V3700 storage (one-way from another storage device). Remote Mirror creates copies of data at remote locations for disaster recovery. IBM FlashCopy® creates instant application copies for backup or application testing. This IBM Redbooks® publication is intended for pre-sales and post-sales technical support professionals and storage administrators. The concepts in this book also relate to the IBM Storwize V3500. This book was written

at a software level of version 7 release 4.

### **IBM Content Manager OnDemand Guide**

IBM® WebSphere® Application Server V8.5 includes a Liberty profile, which is a highly composable, dynamic application server profile. It is designed for two specific use cases: Developers with a smaller production runtime, and production environments. For developers, it focuses on the tasks that a developer does most frequently, and makes it possible for the developer to complete those tasks as quickly and as simply as possible. For production environments, it provides a dynamic, small footprint runtime to be able to maximize system resources. This IBM Redbooks® publication targets administrators of Liberty environments. It provides the information needed to create, configure, and manage Liberty servers. It includes information about managing multiple servers in an installation, including the use of the new administrative capabilities introduced in WebSphere Application Server V8.5.5.7. The following publications are companion publications for this book: WebSphere Application Server: New Features in V8.5.5, REDP-4870 WebSphere Application Server V8.5.5 Technical Overview, REDP-4855 IBM WebSphere Application Server V8.5 Concepts, Planning, and Design Guide, SG24-8022 WebSphere Application Server Liberty Profile Guide for Developers, SG24-8076

### **IBM System Storage DS5000 Series Implementation and Best Practices Guide**

Organizations today are more widely distributed than ever before, which can make systems management tasks, such as distributing software, patches, and security policies, extremely challenging. The IBM® Tivoli® Endpoint Manager platform is architected for today's highly diverse, distributed, and complex IT environments. It provides real-time visibility and control through a single infrastructure, single agent, and single console for systems lifecycle management, endpoint protection, and security configuration and vulnerability management. This platform enables organizations to securely manage their global IT infrastructures faster and more accurately, resulting in improved governance, control, visibility, and business agility. Plus, it gives organizations the ability to handle tomorrow's unforeseen challenges. In this IBM Redbooks® publication, we provide IT security professionals with a better understanding around the challenging topic of endpoint management in the IT security domain. We focus on IBM Tivoli Endpoint Manager for Security and Compliance and describe the product architecture and provide a hands-on design guide for deploying the solution. This book is a valuable resource for security professionals and architects who want to understand and implement a centralized endpoint management infrastructure and endpoint protection to better handle security and compliance challenges.

### **IBM Power Systems RAID Solutions Introduction and Technical Overview**

IBM WebSphere Application Server 8.0 Administration Guide is a highly practical, example-driven tutorial. You will be introduced to WebSphere Application Server

8.0, and guided through configuration, deployment, and tuning for optimum performance. If you are an administrator who wants to get up and running with IBM WebSphere Application Server 8.0, then this book is not to be missed. Experience with WebSphere and Java would be an advantage, but is not essential.

### **Endpoint Security and Compliance Management Design Guide Using IBM Tivoli Endpoint Manager**

This IBM® Redpaper introduces the IBM Spectrum® Scale Erasure Code Edition (ECE) as a scalable, high-performance data and file management solution. ECE is designed to run on any commodity server that meets the ECE minimum hardware requirements. ECE provides all the functionality, reliability, scalability, and performance of IBM Spectrum Scale with the added benefit of network-dispersed IBM Spectrum Scale RAID, which provides data protection, storage efficiency, and the ability to manage storage in hyperscale environments that are composed from commodity hardware. In this publication, we explain the benefits of ECE and the use cases where we believe it fits best. We also provide a technical introduction to IBM Spectrum Scale RAID. Next, we explain the key aspects of planning an installation, provide an example of an installation scenario, and describe the key aspects of day-to-day management and a process for problem determination. We conclude with an overview of possible enhancements that are being considered for future versions of IBM Spectrum Scale Erasure Code Edition. Overall knowledge of IBM Spectrum Scale Erasure Code Edition is critical to planning a successful storage system deployment. This paper is targeted toward technical professionals (consultants, technical support staff, IT Architects, and IT Specialists) who are responsible for delivering cost effective storage solutions. The goal of this paper is to describe the benefits of using IBM Spectrum Scale Erasure Code Edition for the creation of high performing storage systems.

### **IBM WebSphere Application Server V8.5 Administration and Configuration Guide for Liberty Profile**

This IBM® Redbooks® publication provides deployment guidelines, workload estimates, and preferred practices for clients who want a proven IBM technology stack for virtualized VMware and Microsoft environments. The result is a Reference Architecture for Virtualized Environments (RAVE) that uses VMware vSphere or Microsoft Hypervisor, IBM System x® or IBM BladeCenter® server, IBM System Networking, and IBM System Storage® N series with Clustered Data ONTAP as a storage foundation. The reference architecture can be used as a foundation to create dynamic cloud solutions and make full use of underlying storage features and functions. This book provides a blueprint that illustrates how clients can create a virtualized infrastructure and storage cloud to help address current and future data storage business requirements. It explores the solutions that IBM offers to create a storage cloud solution addressing client needs. This book also shows how the Reference Architecture for Virtualized Environments and the extensive experience of IBM in cloud computing, services, proven technologies, and products support a Smart Storage Cloud solution that is designed for your storage optimization efforts. This book is for anyone who wants to learn how to successfully deploy a virtualized environment. It is also written for anyone who wants to

understand how IBM addresses data storage and compute challenges with IBM System Storage N series solutions with IBM servers and networking solutions. This book is suitable for IT architects, business partners, IBM clients, storage solution integrators, and IBM sales representatives.

### **IBM SAN Survival Guide**

A practical hands-on user guide and eBook with time saving tips and comprehensive instructions for using Lotus Notes effectively and efficiently.

### **IBM Lotus Notes 8.5 User Guide**

Corporate workgroups, distributed enterprises, and small to medium-sized companies are increasingly seeking to network and consolidate storage to improve availability, share information, reduce costs, and protect and secure information. These organizations require enterprise-class solutions capable of addressing immediate storage needs cost-effectively, while providing an upgrade path for future requirements. IBM® System Storage® N series storage systems and their software capabilities are designed to meet these requirements. IBM System Storage N series storage systems offer an excellent solution for a broad range of deployment scenarios. IBM System Storage N series storage systems function as a multiprotocol storage device that is designed to allow you to simultaneously serve both file and block-level data across a single network. These activities are demanding procedures that, for some solutions, require multiple, separately managed systems. The flexibility of IBM System Storage N series storage systems, however, allows them to address the storage needs of a wide range of organizations, including distributed enterprises and data centers for midrange enterprises. IBM System Storage N series storage systems also support sites with computer and data-intensive enterprise applications, such as database, data warehousing, workgroup collaboration, and messaging. This IBM Redbooks® publication explains the software features of the IBM System Storage N series storage systems. This book also covers topics such as installation, setup, and administration of those software features from the IBM System Storage N series storage systems and clients and provides example scenarios.

### **IBM Midrange System Storage Implementation and Best Practices Guide**

This IBM® Redbooks® publication represents a compilation of best practices for deploying and configuring IBM Midrange System Storage™ servers, which include the DS4000® and the DS5000 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 Midrange System Storage family of products. We realize that setting up DS4000 and 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. 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 DB2®, Oracle, Tivoli® Storage Manager, Microsoft® SQL server, and in particular, Microsoft Exchange with IBM Midrange System Storage servers. Then we review the various tools available to simulate workloads and to measure, collect, and analyze performance data. We also consider the AIX® environment, including High Availability Cluster Multiprocessing (HACMP™) and General Parallel File System (GPFS™). Finally, we provide a quick guide to the storage server installation and configuration using best practices. This edition of the book also includes guidelines for managing and using the DS4000 and DS5000 with the IBM System Storage SAN Volume Controller (SVC).

### **IBM System Storage DS Storage Manager Copy Services Guide**

### **A Software Architect's Guide to New Java Workloads in IBM CICS Transaction Server**

The Clustered Network File System (CNFS) is a capability based on IBM® General Parallel File System (GPFS) running on Linux® which, when combined with System x® servers or BladeCenter® Servers, IBM TotalStorage® Disk Systems, and Storage Area Networks (SAN) components, provides a scalable file services environment. This capability enables customers to run a General Parallel File System (GPFS) data-serving cluster in which some or all of the nodes actively export the file system using NFS. This IBM Redpaper™ publication shows how Cluster NFS file services are delivered and supported today through the configurable order process of the IBM Intelligent Cluster. The audience for this paper includes executive and consultant decision makers and technical administrators who want to know how to implement this solution.

### **Implementing the IBM Storwize**

This IBM® Redbooks® publication helps you install, configure, and maintain the IBM zEnterprise 196 server. The z196 offers new functions that require a comprehensive understanding of the available configuration options. This book presents configuration setup scenarios, and discusses implementation examples in detail. This book is intended for systems engineers, hardware planners, and anyone who needs to understand IBM System z® configuration and implementation. Readers should be generally familiar with current IBM System z technology and terminology. For details about the z196 server, see IBM zEnterprise System Technical Introduction, SG24-7832 and IBM zEnterprise System Technical Guide, SG24-7833.

### **IBM z15 Configuration Setup**

### **IBM Sametime 8.5.2 Administration Guide**

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.

### **IBM System Storage DS3000**

This IBM® Redbooks® publication helps you install, configure, and maintain the IBM z15™ (machine types 8561 and 8562) systems. The z15 systems offers new functions that require a comprehensive understanding of the available configuration options. This book presents configuration setup scenarios, and describes implementation examples in detail. This publication is intended for systems engineers, hardware planners, and anyone who needs to understand IBM Z® configuration and implementation. Readers should be familiar with IBM Z technology and terminology. For more information about the functions of the z15 systems, see IBM z15 Technical Introduction, SG24-8850, IBM z15 (8561) Technical Guide, SG24-8851 and IBM z15 (8562) Technical Guide, SG24-8852.

### **The Practical Guide to the IBM Personal Computer AT**

The Best Test Prep for the CompTIA Linux+ Powered By LPI Exams One of Sybex's most popular certification Study Guides, CompTIA Linux+ Study Guide, Second Edition thoroughly prepares candidates for the CompTIA Linux+ Powered by LPI exams (LX0-101 and LX0-102). In addition to full coverage of all exam objectives for both exams, chapter review questions, and hands-on exercises, this CompTIA Authorized courseware also includes access to a great set of Linux-, Mac-, and Windows-compatible online test-prep tools. Author Roderick W. Smith, CompTIA Linux+, LPIC-1, LPIC-2, is a Linux networking expert who gives candidates the authoritative instruction and review they need. Provides full coverage of all exam objectives for the CompTIA Linux+ Powered by LPI exams ((LX0-101 and LX0-102) Includes challenging review questions, hands-on exercises, and real-world scenarios that put the information in the context of real job roles Provides access to a Linux-, Mac-, and Windows-compatible custom test engine, with hundreds of sample questions and flashcards Covers essential topics, such as system

architecture, installation, GNU and Unix commands, filesystems and filesystem hierarchy, shells, scripting, data management, networking fundamentals, security, and more CompTIA Linux+ Study Guide, Second Edition is what you need for top-notch preparation for the CompTIA Linux+ Powered by LPI certification exams.

### **Insider's Guide to the IBM PS/2**

IBM® Tivoli® Storage Productivity Center V5.1 products offer storage infrastructure management that helps optimize storage management by centralizing, simplifying, automating, and optimizing storage tasks associated with storage systems, data disaster recovery, storage networks, and capacity management. IBM Tivoli Storage Productivity Center V5.1 products include: IBM Tivoli Storage Productivity Center V5.1 IBM Tivoli Storage Productivity Center Select Edition V5.1 Tivoli Storage Productivity Center V5.1 is designed to provide device management capabilities, such as automated system discovery, provisioning, data replication, configuration, and performance monitoring for storage systems and storage networks. Tivoli Storage Productivity Center Select Edition V5.1 offers the same features as Tivoli Storage Productivity Center V5.1 but at attractive entry-level pricing for operations with smaller capacities. It is licensed per storage device, such as disk controllers and their respective expansion units. This IBM Redbooks® publication is intended for storage administrators and users who are installing and using the features and functions in IBM Tivoli Storage Productivity Center V5.1. The information in this book can be used to plan for, install, and customize the components of Tivoli Storage Productivity Center in your storage infrastructure.

### **IBM System Storage N series Reference Architecture for Virtualized Environments**

The IBM® Hardware Management Console (HMC) provides to systems administrators a tool for planning, deploying, and managing IBM Power Systems™ servers. This IBM Redbooks® publication is an extension of IBM Power Systems HMC Implementation and Usage Guide, SG24-7491 and also merges updated information from IBM Power Systems Hardware Management Console: Version 8 Release 8.1.0 Enhancements, SG24-8232. It explains the new features of IBM Power Systems Hardware Management Console Version V8.8.1.0 through V8.8.4.0. The major functions that the HMC provides are Power Systems server hardware management and virtualization (partition) management. Further information about virtualization management is in the following publications: IBM PowerVM Virtualization Managing and Monitoring, SG24-7590 IBM PowerVM Virtualization Introduction and Configuration, SG24-7940 IBM PowerVM Enhancements What is New in 2013, SG24-8198 IBM Power Systems SR-IOV: Technical Overview and Introduction, REDP-5065 The following features of HMC V8.8.1.0 through HMC V8.8.4.0 are described in this book: HMC V8.8.1.0 enhancements HMC V8.8.4.0 enhancements System and Partition Templates HMC and IBM PowerVM® Simplification Enhancement Manage Partition Enhancement Performance and Capacity Monitoring HMC V8.8.4.0 upgrade changes

### **IBM Power Systems HMC Implementation and Usage Guide**

IBM® Systems Director is a platform management foundation that streamlines the way that physical and virtual systems are managed. Using industry standards, IBM Systems Director supports multiple operating systems and virtualization technologies. This paper provides guidance and preferred practices about how to install and configure IBM Systems Director Version 6.3. Also, installation guidance, fundamental topics, such as discovery and inventory, and more advanced topics, such as troubleshooting and automation, are covered. This paper is meant to be a partner to the comprehensive documentation in the IBM Systems Director Information Center. This paper is aimed at IT specialists who are planning to install and configure IBM Systems Director on Microsoft Windows, Linux, or IBM AIX®.

### **IBM System Storage DS5000 Series Hardware Guide**

The IBM® Hardware Management Console (HMC) provides systems administrators a tool for planning, deploying, and managing IBM Power Systems™ servers. This IBM Redbooks® publication is designed for system administrators to use as a desk-side reference when managing partition-capable IBM Power Systems servers by using the HMC. The major functions that the HMC provides are Power Systems server hardware management and virtualization (partition) management. You can find information about virtualization management in the following documents: - A Practical Guide for Resource Monitoring and Control (RMC), SG24-6615 - IBM PowerVM Virtualization Introduction and Configuration, SG24-7940 - Implementing IBM Systems Director 6.1, SG24-7694 - Hardware Management Console V7 Handbook, SG24-7491 - IBM PowerVM Live Partition Mobility, SG24-7460 - IBM PowerVM Virtualization Managing and Monitoring, SG24-7590 - Converting Hardware Management Console (HMC) 7042-CR6 or 7042-CR7 Models to RAID1, REDP-4909 The following topics are described: - Plan to implement the HMC - Configure the HMC - Operate the HMC - Manage software levels on the HMC - Use service functions on the HMC - Update firmware of managed systems - Use IBM System Planning Tool deployments In addition, there is an explanation on how to use the new HMC graphical user interface and the new HMC commands that are available with HMC Version 7, Release 7, modification 60.

### **IBM z14 Model ZR1 Configuration Setup**

This IBM® Redpaper Redbooks® publication introduces the IBM System z® New Application License Charges (zNALC) pricing structure and provides examples of zNALC workload scenarios. It describes the products that can be run on a zNALC logical partition (LPAR), reasons to consider such an implementation, and covers the following topics: Using the IBM WebSphere Application Server Liberty profile to host applications within an IBM CICS® environment and how it interacts with CICS applications and resources Security technologies available to applications that are hosted within a WebSphere Application Server Liberty profile in CICS How to implement modern presentation in CICS with a CICS Liberty Java virtual machine (JVM) server How to share scenarios to develop Liberty JVM applications to gain benefits from IBM CICS Transaction Server for IBM z/OS® Value Unit Edition Considerations when using mobile devices to interact with CICS applications and explains specific CICS technologies for connecting mobile devices by using the z/OS Value Unit Edition How IBM Operational Decision Manager for z/OS runs in the transaction server to provide decision management services for CICS COBOL and

PL/I applications Installing the CICS Transaction Server for z/OS (CICS TS) Feature Pack for Modern Batch to enable the IBM WebSphere® batch environment to schedule and manage batch applications in CICS This book also covers what is commonly referred to as plain old Java objects (POJOs). The Java virtual machine (JVM) server is a full-fledged JVM that includes support for Open Service Gateway initiative (OSGi) bundles. It can be used to host open source Java frameworks and does just about anything you want to do with Java on the mainframe. POJO applications can also qualify for deployment using the Value Unit Edition. Read about how to configure and deploy them in this companion Redbooks publication: IBM CICS and the JVM server: Developing and Deploying Java Applications, SG24-8038 Examples of POJOs are terminal-initiated transactions, CICS web support, web services, requests received via IP CICS sockets, and messages coming in via IBM WebSphere MQ messaging software.

### **IBM Intelligent Operations Center V1.5 to V1.6 Migration Guide**

### **LPIC-1: Linux Professional Institute Certification Study Guide**

Updated for the latest LPIC-1 Exams 101 and 102 The LPIC-1 certification measures your understanding of the Linux Kernel. As the Linux server market continues to grow, so does the demand for certified Linux administrators. Prepare for the latest versions of the LPIC-1 exams 101 and 102 with the new edition of this detailed Study Guide. This practical book covers key Linux administration topics and all exam objectives and includes real-world examples and review questions to help you practice your skills. In addition, you'll gain access to a full set of online study tools, including bonus practice exams, electronic flashcards, and more. Prepares candidates to take the Linux Professional Institute exams 101 and 102 and achieve their LPIC-1 certification Covers all exam objectives and features expanded coverage on key topics in the exam Includes real-world scenarios, and challenging review questions Gives you online access to bonus practice exams, electronic flashcards, and a searchable glossary Topics include system architecture, installation, GNU and Unix commands, Linux filesystems, essential system services, networking fundamentals, security, and more Approach the LPIC-1 certification exams with confidence, with LPIC-1: Linux Professional Institute Certification Study Guide, Third Edition.

### **CompTIA Linux+ Study Guide**

Today, security is a concern for everyone, from members of the board to the data center. Each day another data breach occurs. These incidents can affect an organization's brand, investment return, and customer base. Time spent managing security incidents and managing risks can take time away from focusing on strategic business objectives. Organizations need to address security challenges by administering, securing, and monitoring identities, roles, and entitlements with efficient life-cycle management, access controls, and compliance auditing. Those tasks include automated and policy-based user management to effectively manage user accounts and centralized authorization for web and other applications, and also enterprise, web, and federated single sign-on, inside, outside, and between

organizations. Increasingly important requirements are the integration with stronger forms of authentication (smart cards, tokens, one-time passwords, and so forth) and centralizing policy-based access control of business-critical applications, files, and operating platforms. This IBM® Redpaper™ publication describes how the IBM Tivoli® Identity and Access Assurance offering can help you address compliance initiatives, operational costs (automating manual administrative tasks that can reduce help desk cost), operational security posture (administering and enforcing user access to resources), and operational efficiencies (enhancing user productivity).

### **IBM Spectrum Archive Enterprise Edition V1.2.6 Installation and Configuration Guide**

This IBM® Redbooks® publication consolidates, in one document, detailed descriptions of the hardware configurations and options offered as part of the IBM Midrange System Storage™ servers, which include the IBM System Storage DS4000® and DS5000 families of products. This edition covers updates and additional functions available with the IBM System Storage DS® Storage Manager Version 10.60 (firmware level 7.60). This book presents the concepts and functions used in planning and managing the storage servers, such as multipathing and path failover. The book offers a step-by-step guide to using the Storage Manager to create arrays, logical drives, and other basic (as well as advanced) management tasks. This publication also contains practical information about diagnostics and troubleshooting, and includes practical examples of how to use scripts and the command-line interface. This publication is intended for customers, IBM Business Partners, and IBM technical professionals who want to learn more about the capabilities and advanced functions of the DS4000 series of storage servers with Storage Manager Software V10.60. It also targets those who have a DS4000 and DS5000 storage subsystem and need detailed advice about how to configure it.

### **Addressing Identity, Access and Compliance Requirements using IBM Tivoli Identity and Access Assurance**

IBM® Intelligent Operations Center is an integrated solution, and a continually evolving platform and set of capabilities. The platform grows as the capabilities increase over time, and new interfaces and integration points are introduced in each release. The purpose of this IBM Redbooks® publication is to guide planners, architects, and implementers through the options that they have, to take advantage of the new capabilities and maximize the benefits of moving to the new release. This book considers what has already been deployed with IBM Intelligent Operations Center V1.5, the benefits of the new version (IBM Intelligent Operations Center V1.6.0.1), and the best way to take advantage of the new capabilities as you transition. IBM Intelligent Operations Center has several integration and extension points for the previous and current versions of the product, which points are documented and described in this book. This IBM Redbooks publication describes options and considerations for the best way to migrate customizations and benefit from the new architecture. Thorough details about the differences between the prior and new versions of the product are provided, to enable a clear understanding of migration choices, options, and preferred practices. This book

includes descriptions of the trade-offs for each migration option, and in-depth information about data flows, available tools, and scripting changes that might affect existing IBM Intelligent Operations Center installations. This book is targeted to the following audiences: Line of business managers or stakeholders who are interested in understanding the new features in IBM Intelligent Operations Center V1.6, and who are looking for information about how to plan the migration of their current IBM Intelligent Operations Center V1.5 environments. Architects who need to understand the effect that IBM Intelligent Operations Center V1.6 will have on the architecture of IBM Intelligent Operations Center V1.5 solutions. IT specialists and product specialists who are responsible for implementing the migration of a solution based on IBM Intelligent Operations Center V1.5 to a V1.6 solution. Readers of this book will benefit from the IBM Redbooks publication IBM Intelligent Operations Center 1.6 Programming Guide, SG24-8201.

### **The IBM Style Guide**

IBM® Operational Decision Management (ODM) is a family of products used by IT and business users to create and manage business decision logic throughout their organization. This IBM Redpaper™ publication offers advice on all aspects of performance, including hardware, architecture, authoring, quality of service, monitoring, and tuning. The advice is based upon preferred practices and experience gained from real customer situations. This paper is aimed at a wide ODM audience, including IBM employees and customers, and provides useful information to both new and experienced users. Although the product family is known as IBM WebSphere® Operational Decision Management (WODM), at V8.0, with V8.0.1 the the name is now simply IBM Operational Decision Manager (ODM). The performance information in this paper is based on V8.0 of this product family and differences introduced with V8.0.1 are pointed out.

### **IBM Tivoli Storage Productivity Center V5.1 Technical Guide**

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 Power Systems HMC Implementation and Usage Guide**

The IBM Style Guide distills IBM wisdom for developing superior content:

information that is consistent, clear, concise, and easy to translate. The IBM Style Guide can help any organization improve and standardize content across authors, delivery mechanisms, and geographic locations. This expert guide contains practical guidance on topic-based writing, writing content for different media types, and writing for global audiences. Throughout, the authors illustrate the guidance with many examples of correct and incorrect usage. Writers and editors will find authoritative guidance on issues ranging from structuring information to writing usable procedures to presenting web addresses to handling cultural sensitivities. The guidelines cover these topics: Using language and grammar to write clearly and consistently Applying punctuation marks and special characters correctly Formatting, organizing, and structuring information so that it is easy to find and use Using footnotes, cross-references, and links to point readers to valuable, related information Presenting numerical information clearly Documenting computer interfaces to make it easy for users to achieve their goals Writing for diverse audiences, including guidelines for improving accessibility Preparing clear and effective glossaries and indexes The IBM Style Guide can help any organization or individual create and manage content more effectively. The guidelines are especially valuable for businesses that have not previously adopted a corporate style guide, for anyone who writes or edits for IBM as an employee or outside contractor, and for anyone who uses modern approaches to information architecture.

### **IBM Operational Decision Management V8.0 Performance Tuning Guide**

This IBM® Redbooks® publication consolidates, in one document, detailed descriptions of the hardware configurations and options offered as part of the IBM System Storage DS5000 families of products. This edition covers updates and additional functions available with the IBM System Storage DS® Storage Manager Version 10.77 (firmware level 7.77). This book presents the concepts and functions used in planning and managing the storage servers, such as multipathing and path failover. The book offers a step-by-step guide to using the Storage Manager to create arrays, logical drives, and other basic (as well as advanced) management tasks. This publication also contains practical information about diagnostics and troubleshooting, and includes practical examples of how to use scripts and the command-line interface. This publication is intended for customers, IBM Business Partners, and IBM technical professionals who want to learn more about the capabilities and advanced functions of the DS5000 series of storage servers with Storage Manager Software V10.77. It also targets those who have a DS5000 storage subsystem and need detailed advice about how to configure it. This book is designed specifically to address the hardware features and configuration of the IBM System Storage DS5000 family and can be used in conjunction with the following IBM Redbooks publications: IBM System Storage DS5000 Series Implementation and Best Practices Guide, SG24-8024 IBM System Storage DS Storage Manager Copy Services Guide, SG24-7822

### **IBM Midrange System Storage Hardware Guide**

Sandler and Kennedy give essential information on setting up and using the new

IBM PS/2 system. Includes descriptions of each of the new models, OS/2, multitasking, windowing, networking, and much more.

### **IBM Midrange System Storage Implementation and Best Practices Guide**

This IBM® Redbooks® publication provides a practical guide to the design, installation, configuration, and maintenance of IBM Content Manager OnDemand Version 9.5. Content Manager OnDemand manages the high-volume storage and retrieval of electronic statements and provides efficient enterprise report management. Content Manager OnDemand transforms formatted computer output and printed reports, such as statements and invoices, into electronic information for easy report management. Content Manager OnDemand helps eliminate costly, high-volume print output by capturing, indexing, archiving, and presenting electronic information for improved customer service. This publication covers the key areas of Content Manager OnDemand, some of which might not be known to the Content Manager OnDemand community or are misunderstood. The book covers various topics, including basic information in administration, database structure, storage management, and security. In addition, the book covers data indexing, loading, conversion, and expiration. Other topics include user exits, performance, retention management, records management, and many more. Because many other resources are available that address subjects on different platforms, this publication is not intended as a comprehensive guide for Content Manager OnDemand. Rather, it is intended to complement the existing Content Manager OnDemand documentation and provide insight into the issues that might be encountered in the setup and use of Content Manager OnDemand. This book is intended for individuals who need to design, install, configure, and maintain Content Manager OnDemand.

### **IBM System Storage DS3500 Introduction and Implementation Guide**

The use of external storage and the benefits of virtualization became a topic of discussion in the IBM® i area during the last several years. The question tends to be, what are the advantages of the use of external storage that is attached to an IBM i environment as opposed to the use of internal storage. The use of IBM PowerVM® virtualization technology to virtualize Power server processors and memory also became common in IBM i environments. However, virtualized access to external storage and network resources by using a VIO server is still not widely used. This IBM Redbooks® publication gives a broad overview of the IBM Storwize® family products and their features and functions. It describes the setup that is required on the storage side and describes and positions the different options for attaching IBM Storwize family products to an IBM i environment. Basic setup and configuration of a VIO server specifically for the needs of an IBM i environment is also described. In addition, different configuration options for a combined setup of IBM PowerHA® SystemMirror® for i and the Storwize family products are described and positioned against each other. Detailed examples are provided for the setup process that is required for these environments. The information that is provided in this book is useful for clients, IBM Business Partners,

and IBM service professionals who need to understand how to install and configure their IBM i environment with attachment to the Storwize family products.

### **xREF: System x Reference**

This IBM® Redbooks® publication helps you install, configure, and maintain the IBM z14® Model ZR1 (Machine Type 3907). The z14 ZR1 offers new functions that require a comprehensive understanding of the available configuration options. This book presents configuration setup scenarios and describes implementation examples in detail. This publication is intended for systems engineers, hardware planners, and anyone who needs to understand IBM Z® configuration and implementation. Readers should be generally familiar with current IBM Z technology and terminology. For more information about the functions of the z14 Model ZR1, see IBM z14 Model ZR1 Technical Introduction, SG24-8550, and IBM z14 Model ZR1 Technical Guide, SG24-8651.

### **IBM zEnterprise 196 Configuration Setup**

As we all know, large ocean going ships never collide with icebergs. However, occasionally life deals out some unexpected pleasures for us to cope with. Surviving any disaster in life is usually a lot easier if you have prepared adequately by taking into account the likely problems, solutions, and their implementation. In this IBM Redbooks publication, we limit ourselves to those situations in which it is likely that a SAN will be deployed. We present the IBM SAN portfolio of products, going a little under the surface to show the fault tolerant features that they utilize, and then describe solutions with all these features taken into account. Each of these solutions was built on practical experience, in some cases with cost in mind, in some cases with no cost in mind. Any well-thought-out SAN design will have taken every single one of these concerns into account, and either formulated a solution for it, or ignored it, but nonetheless understanding the potential exposure. With these points in mind, in this book we have two objectives: to position the IBM SAN products that are currently in our portfolio; and to show how those products can be configured together to build a SAN that not only allows you to survive most forms of disaster, but also provides performance benefits. So, make sure that you know what to do if you hit an iceberg!

### **IBM i and IBM Storwize Family: A Practical Guide to Usage Scenarios**

The purpose of this IBM® Redbooks® publication is to provide customers with guidance and recommendations for how and when to use the IBM System Storage® Copy Services premium features. The topics discussed in this publication apply to the IBM System Storage DS® models DS3000, DS4000®, and DS5000 running the firmware v7.70, and IBM System Storage DS Storage Manager v10.70. Customers in today's IT world are finding a major need to ensure a good archive of their data and a requirement to create these archives with minimal interruptions. The IBM Midrange System Storage helps to fulfill these requirements by offering three copy services premium features: IBM FlashCopy® VolumeCopy Enhanced Remote Mirroring (ERM) This publication specifically addresses the copy services

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premium features and can be used in conjunction with the following IBM DS System Storage books: IBM System Storage DS4000 and Storage Manager V10.30, SG24-7010 IBM System Storage DS3000: Introduction and Implementation Guide, SG24-7065 IBM System Storage DS3500: Introduction and Implementation Guide, SG24-7914 IBM Midrange System Storage Hardware Guide, SG24-7676 IBM Midrange System Storage Implementation and Best Practices Guide, SG24-6363

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