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# Ibm System Director 63 Installation Guide

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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

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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.

[Guide to IBM PowerHA SystemMirror for AIX Version 7.1.3](#) 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

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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. Using the IBM System

Storage N series with IBM Tivoli Storage Manager IBM Redbooks  
This IBM® Redbooks® publication for IBM Power Systems™ with IBM PowerHA® SystemMirror® Standard and Enterprise Editions (hardware, software, practices, reference architectures, and tools) documents a well-defined deployment model within an IBM Power Systems environment. It guides you through a planned foundation for a dynamic infrastructure for your enterprise applications.

This information is for technical consultants, technical support staff, IT architects, and IT specialists who are responsible for providing high availability and support for the IBM PowerHA SystemMirror Standard and Enterprise Editions on IBM POWER® systems.  
IBM QRadar Version 7.3 Planning and Installation Guide  
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-

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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 *Mainframe from Scratch: Hardware Configuration and z/OS Build* IBM Redbooks 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

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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®. **Computerworld** IBM Redbooks For more than 40 years, Computerworld has been the leading source of technology news and information for IT influencers

worldwide. Computerworld's award-winning Web site (Computerworld.com), twice-monthly publication, focused conference series and custom research form the hub of the world's largest global IT media network. *IBM Systems Director 6.3 Best Practices: Installation and Configuration* IBM Redbooks This IBM® Redbooks® publication

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discusses the concepts and implementation of PowerVMTM and the WebSphere® CloudBurst™ appliance. This book is aimed at administrators and developers who have little knowledge of PowerVM, but in-depth knowledge of WebSphere software. Cloud computing is the pooling of computing resources to provide a single

source of computing power to multiple users. A cloud manager provides a self-service portal that maintains permissions and information about cloud objects such as virtual images, patterns, and resources. The WebSphere CloudBurst Appliance represents a cloud manager. It is a secure hardware

appliance that optimizes the configuration, deployment, and management of WebSphere Application Server environments in a cloud. It can also be used by service providers providing hosted public clouds and software-as-a-service environments to simplify and standardize repeated

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deployments of their required to software. This book implement WebSphere includes an CloudBurst introduction to appliance with cloud computing and PowerVM. how the WebSphere **IBM Systems Director Management Console: Introduction and Overview** IBM Redbooks CloudBurst appliance fits into This IBM® Redbooks® business today. It publication describes presents the the positioning of the features and IBM Systems Director benefits of using in the complete the WebSphere management range. It CloudBurst also compares the IBM Appliance and the Systems Director with advantages of using the IBM Flex Systems PowerVM. It Manager (FSM) and describes the provides the steps

environments for which each tool is best suited. This publication helps you plan, install, tailor, and configure the IBM Systems Director on different platforms. It contains information about required system resources and which network ports are used. It shows how to use the Workload Estimator to select the appropriate hardware for IBM Systems Director server and provides information about the IBM Systems Director Editions. Best



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practices are covered for the basic management tasks that are available in IBM Systems Director, including how to perform discovery; how to collect inventory on discovered resources; how to deploy agent, driver, and firmware updates; how to manage hardware events; and other miscellaneous tasks. An overview of best practices is provided for using IBM Systems Director VMControl™. Systems Director VMControl is a cross-platform product that assists you in rapidly deploying virtual appliances to create virtual servers that are configured with the operating system and software applications that you want. It also enables you to group resources into system pools, which enable you to centrally manage and control the different workloads in your environment. The following plug-in offerings are described: Energy monitoring and management features offered by IBM Systems Director Active Energy Manager™ along with the best practice, which needs to be followed in using the IBM Systems Director Active Energy Manager. The IBM AIX® Profile Manager is a tool that can help implement and monitor the security of all AIX servers in a production environment but also implement and monitor the system compliance of those AIX servers. Best practices and the most important questions to ask before creating Workload

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Partition Manager (WPAR) and WPAR Manager infrastructure. In addition, how you can manage and relocate WPARs using WPAR Manager graphical interface and the command-line interface. Network Control basic functionalities and how to plan for Network Control deployments and also a number of common scenarios with best practices. The IBM Systems Director Service and Support Manager describes how to set up and how to handle serviceable

events. Best practices for the Storage Monitoring and Management capabilities offered by IBM Systems Director server. This book is for IBM IT specialists and IT architects, IBM Business Partners, and clients, who are utilizing or considering implementing IBM Systems Director. *IBM Systems Director 6.3 Best Practices* 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,

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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. [Implementing IBM Systems Director 6.1](#) Vervante With the advances of technology and the reoccurrence of data

leaks, cyber security is a bigger challenge than ever before. Cyber attacks evolve as quickly as the technology itself, and hackers are finding more innovative ways to break security controls to access confidential data and to interrupt services. Hackers reinvent themselves using new technology features as a tool to expose companies and individuals.

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Therefore, cyber security cannot be reactive but must go a step further by implementing proactive security controls that protect one of the most important assets of every organization: the company's information. This IBM® Redbooks® publication provides information about implementing IBM QRadar® for Security Intelligence and Event Monitoring (SIEM) and protecting an organization's networks through a sophisticated technology, which permits a proactive security posture. It is divided in to the following major sections to facilitate the integration of QRadar with any network architecture: Chapter 2, "Before the installation" on page 3 provides a review of important requirements before the installation of the product. Chapter 3, "Installing IBM QRadar V7.3" on page 57 provides step-by-step procedures to guide you through the installation process. Chapter 4, "After the installation" on page 77 helps you to configure additional features and perform checks after the product is installed. QRadar is an IBM Security prime product that is designed to be

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integrated with corporate network devices to keep a real-time monitoring of security events through a centralized console. Through this book, any network or security administrator can understand the product's features and benefits.

*IBM Systems Director Navigator for i* 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.

**End to End Performance Management on IBM i**  
IBM Redbooks

This IBM® Redpaper™ publication is a comprehensive guide covering the IBM Power 710 and Power 730 servers supporting AIX®, IBM i, and Linux® operating

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systems. The goal of this paper is to introduce the major innovative Power 710 and 730 offerings and their prominent functions, including these: The POWER7™ processor available at frequencies of 3.0 GHz, 3.55 GHz, and 3.7 GHz. The specialized POWER7 Level 3 cache that provides greater bandwidth, capacity, and reliability. The 1 Gb or 10 Gb Integrated Virtual Ethernet adapter, included with each server configuration, and

providing native hardware virtualization (PowerVM™) including PowerVM Live Partition Mobility and PowerVM Active Memory™ Sharing Active Memory Expansion that provides more usable memory than what is physically installed on the system. EnergyScale™ technology that provides features such as power trending, power-saving, capping of power, and thermal measurement. Professionals who want to acquire a better

understanding of IBM Power Systems products can benefit from reading this paper. This paper expands the current set of IBM Power Systems documentation by providing a desktop reference that offers a detailed technical description of the Power 710 and Power 730 systems. This paper does not replace the latest marketing materials and configuration tools. It is intended as an additional source of information that,

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together with existing sources, can be used to enhance your knowledge of IBM server solutions.

*IBM Systems Director Navigator for i* IBM Redbooks

This IBM® Redbooks® publication helps you install, customize, and configure an IBM z13® and build z/OS® environments. This book is intended for those readers who are new to the platform and are faced with the task of installing a mainframe for the first time. By the

term mainframe in this instance, we refer to the hardware and the system software. The intention is to show you how this installation can be done. Volume 1 shows you how we set up a mainframe and installed z/OS V2R2 and IBM DB2® V11. The starting point is a basic hardware configuration of an IBM z13 and DS8000® as shipped from the factory. Volume 1 shows you how the following milestones were achieved: Creating a configuration for the

Customized Offering Driver (COD) system Stand-alone restoration of the COD Expanding the configuration Installing the z/OS V2R2 ServerPac Loading and running IVPs for z/OS ServerPac Installing DB2 ServerPac and IVPs This publication includes figures that show you how the initial builds were achieved. For this book, we designed a scenario and show you how to build that scenario step-by-step. Although your requirements likely

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differ from our scenario, we intend to provide you with an example to show you how it can be done and samples and downloadable materials that you can choose to modify to bring you closer to meeting your needs. This book is divided into the following parts: Part 1: Overview and Planning In this part, we introduce you to how we approached the project. Part 2: Configuration and builds In this part, we describe the tasks that must be completed to create the initial build for the scenario that is described in Part 1. *Building an Ensemble Using IBM zEnterprise Unified Resource Manager* IBM Redbooks This IBM® Redbooks® publication positions the IBM Systems Director Management Console (SDMC) against the IBM Hardware Management Console (HMC). The IBM Systems Director Management Console provides system administrators the ability to manage IBM Power System® servers as well as IBM Power Blade servers. It is based on IBM Systems Director. This publication is designed for system administrators to use as a deskside reference when managing Virtual Servers (formerly partitions) using the SDMC. The major functions that the SDMC provides are server hardware management and virtualization management. *IBM Power 710 and 730 (8231-E2B) Technical Overview and*



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*Introduction* IBM Redbooks  
For many years, IBM® Cluster Systems Management (CSM) provided a single point of management for IBM Power Systems servers running the AIX® operating system. Now you can transform your environment to IBM Systems Director®, which provides CSM clients with the next generation of Cluster Systems Management for their Power Systems servers. The target audience for this IBM Redbooks® publication

includes technical professionals (IT consultants, technical support staff, IT Architects, and IT Specialists) responsible for planning and implementing the Cluster Systems Management software transformation from CSM to IBM Systems Director.

[IBM i 6.1](#)  
[Independent ASPs: A Guide to Quick Implementation of Independent ASPs](#)  
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,

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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,

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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

(GPFSTM). 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. Computerworld IBM Redbooks This IBM® Redbooks® publication helps you install, tailor, and configure a solution with IBM Systems

Director VMControl so that you can move beyond simply managing virtualization to using virtualization to better manage your IT infrastructure. This book describes how the combination of IBM Systems Director and VMControl reduces the total cost of ownership of a virtualized environment by decreasing management costs, increasing

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asset use, and linking infrastructure performance to business goals. This book provides a broad understanding on how VMControl simplifies the management of virtual environments across multiple virtualization technologies and hardware platforms, freeing you from silos of virtualization and delivering enterprise-wide visibility and control. A leading multi-platform virtualization management solution, VMControl is now available in three Editions (Express, Standard, and Enterprise) to best match your virtualized environment. In addition, this book describes the VMControl Enterprise Edition plug-in for IBM Systems Director, IBM Redbooks which uses a workload-optimized approach to virtualization decrease infrastructure costs and improve service levels. With VMControl Enterprise Edition, you can manage system pools with the simplicity of managing a single system, an essential capability for moving to cloud computing and a dynamic infrastructure. [IBM Systems Director Management Console](#)

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technology is a combination of hardware and software that supports and manages the virtual environments on POWER5-, POWER5+, IBM POWER6®, and IBM POWER7®-based systems. PowerVM is available on IBM Power Systems™, and IBM BladeCenter® servers as optional Editions, and is supported by the IBM AIX®, IBM i, and Linux operating systems. You can use this set of comprehensive systems and technologies and services to aggregate and manage resources by using a consolidated, logical view. Deploying PowerVM virtualization and IBM Power Systems offers you the following benefits:

- Lower energy costs through server consolidation
- Reduced cost of your existing infrastructure
- Better management of the virtualized resources

growth, complexity, and risk of your infrastructure This IBM Redbooks® publication is an extension of IBM PowerVM Virtualization Introduction and Configuration, SG24-7940. It provides an organized view of best practices for managing and monitoring your PowerVM environment concerning virtualized resources

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managed by the Virtual I/O Server.  
**IBM PowerVM Virtualization Managing and Monitoring** IGI Global  
This IBM® Redbooks® publication describes the positioning of the IBM Systems Director in the complete management range. It also compares the IBM Systems Director with the IBM Flex Systems Manager (FSM) and describes the environments for

which each tool is best suited. This publication helps you plan, install, tailor, and configure the IBM Systems Director on different platforms. It contains information about required system resources and which network ports are used. It shows how to use the Workload Estimator to select the appropriate hardware for IBM Systems Director server and provides

information about the IBM Systems Director Editions. Best practices are covered for the basic management tasks that are available in IBM Systems Director, including how to perform discovery; how to collect inventory on discovered resources; how to deploy agent, driver, and firmware updates; how to manage hardware events; and other miscellaneous tasks.

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An overview of best practices is provided for using IBM Systems Director VMControl. Systems Director VMControl is a cross-platform product that assists you in rapidly deploying virtual appliances to create virtual servers that are configured with the operating system and software applications that you want. It also enables you to group resources into system pools, which enable you to centrally manage and control the different workloads in your environment. The following plug-in offerings are described: Energy monitoring and management features offered by IBM Systems Director Active Energy Manager along with the best practice, which needs to be followed in using the IBM Systems Director Active Energy Manager. The IBM AIX® Profile Manager is a tool that can help implement and monitor the security of all AIX servers in a production environment but also implement and monitor the system compliance of those AIX servers. Best practices and the most important questions to ask before creating Workload Partition Manager (WPAR) and WPAR Manager infrastructure. In

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addition, how you can handle serviceable manage and relocate WPARs using WPAR Manager graphical interface and the command-line interface. Network Control basic functionalities and how to plan for Network Control deployments and also a number of common scenarios with best practices. The IBM Systems Director Service and Support Manager describes how to set up and how to

events.  
*SAN Boot Implementation and Best Practices Guide for IBM System Storage*  
IBM Redbooks  
Optim™ Performance Manager Extended Edition, a follow-on to DB2® Performance Expert, is one of the key products of the IBM® Optim Solution. Optim Performance Manager Extended Edition provides a comprehensive, proactive performance management approach. It helps organizations

resolve emergent database problems before they impact the business. This IBM Redbooks® publication describes the architecture and components of Optim Performance Manager Extended Edition. We provide information for planning the deployment of Optim Performance Manager and detail steps for successful installation, activation, and configuration of Optim Performance Manager and the Extended Insight client. Optim



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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.