

# IBM Systems Director VMControl Implementation Guide on IBM Power Systems

Optimizes management costs of  
physical and virtual environments

Increases efficiency and resource  
use in data centers

Includes implementation  
scenarios



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# Ibm Systems Director 63 Guide

**IBP USA**



## **Ibm Systems Director 63 Guide:**

*IBM Systems Director VMControl Implementation Guide on IBM Power Systems* Dino Quintero,Lutz Deneffle,Marius Ileana,Guilherme G. Felix,Ming Jun Li,Ashu Tiwary,IBM Redbooks,2011-04-06 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 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 which uses a workload optimized approach to 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 6.3 Best Practices](#) Rufus Credle,Srikanth Aithal,Nicolas Bour,Stephane Bourdeaud,Tomi Mannikainen,Olaf Menke,Juan P Fernandez Sabate,IBM Redbooks,2013-11-08 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 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 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 PowerVM Getting Started Guide* Scott Vetter,Ben Castillo,Brad Ford,Eduardo Otubo,Pavel Pokorný,IBM Redbooks,2012-12-04 IBM PowerVM virtualization technology is a combination of hardware and software that supports and manages virtual environments on IBM POWER5 POWER5 POWER6 and POWER7 processor based systems These systems are available on IBM Power Systems™ and IBM BladeCenter servers as optional editions and are supported by the IBM AIX IBM i and Linux operating systems With this set of comprehensive systems technologies and services you can aggregate and manage resources with a consolidated logical view By deploying PowerVM virtualization and IBM Power Systems you can take advantage of the following benefits Lower energy costs through server consolidation Reduced cost of your existing infrastructure Better management of the growth complexity and risk of your infrastructure This IBM Redpaper™ publication is a quick start guide to help you install and configure a complete PowerVM virtualization solution on IBM Power Systems It highlights how to use the following management console interfaces to configure PowerVM Integrated Virtualization Manager IVM Hardware Management Console HMC Systems Director Management Console SDMC This paper also highlights advanced configuration of a dual Virtual I/O Server setup This paper targets new customers who need assistance with quickly and easily installing configuring and starting a new PowerVM server in a virtualized environment

**IBM i 6.1 Independent ASPs: A Guide to Quick Implementation of Independent ASPs** Scott Vetter,James Baer,Julie Cantrell,Harlon Trowbridge,IBM Redbooks,2009-12-10 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

IBM Flex System p270 Compute Node Planning and Implementation Guide David Watts,Kerry Anders,Simon Casey,Fabien Willmann,IBM Redbooks,2014-01-07 To meet today s complex and ever changing business demands you need a solid foundation of compute storage networking and software resources that is simple to deploy and can quickly and automatically adapt to changing conditions You also need to make full use of broad expertise and proven preferred practices in systems management applications hardware maintenance and more The IBM Flex System p270 Compute Node is an IBM Power Systems™ server that is based on the new dual chip module POWER7™ processor and is optimized for virtualization performance and efficiency The server supports IBM AIX IBM i or Linux operating environments and is designed to run various workloads in IBM PureFlex™ System The p270 Compute Node is a follow on to the IBM Flex System™ p260 Compute Node This IBM Redbooks publication is a comprehensive guide to the p270 Compute Node We introduce the related Flex System offerings and describe the compute node in detail We then describe planning and implementation steps including converged networking management virtualization and operating system installation This book is for customers IBM Business Partners and IBM technical specialists who want to understand the new offerings and plan and implement an IBM Flex System installation that involves the Power Systems compute nodes **IBM System Storage DS5000 Series Hardware Guide** Sangam Racherla,Matus Butora,Antonio Dell'Apa,Mario Ganem,Corne Lottering,Libor Miklas,Hrvoje Stanilovic,Alexander Watson,IBM Redbooks,2013-01-10 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 System Storage DS5000 Series Implementation and Best

Practices Guide Sangam Racherla,Matus Butora,Antonio Dell'Apa,Mario Ganem,Corne Lottering,Libor Miklas,Hrvoje Stanilovic,Alexander Watson,IBM Redbooks,2012-12-21 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 DS Storage Manager Copy Services Guide* Sangam Racherla,Reza Fanaei Aghdam,Hartmut Lonzer,L G (Len) O'Neill,Mario Rodriguez,Vaclav Sindelar,Alexander Watson,IBM Redbooks,2011-02-28 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 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

**Guide to IBM PowerHA SystemMirror for AIX Version 7.1.3** Dino Quintero,Alex Abderrazag,Bernhard Buehler,Primitivo Cervantes,Bharathraj Keshavamurthy,Kunal Langer,Luciano Martins,Ashish Nainwal,Minh Pham,Katharina Probst,Matt Radford,Bjorn Roden,Michael Schmut,Isac Silva,Yefei Song,Ben Swinney,Ashraf Ali Thajudeen,Marian

Tomescu,Sascha Wycisk,IBM Redbooks,2015-06-16 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 **SAN Boot Implementation**

**and Best Practices Guide for IBM System Storage** Sangam Racherla,Delmar Demarchi,Scott Dybas,Bobby Stark,Mansoor Syed,IBM Redbooks,2012-09-30 Booting servers from a storage area network SAN is being used increasingly in complex data center environments today due to its significant benefits over the traditional method of booting from local disks SAN Boot enables organizations to maximize consolidation of their IT resources minimize their equipment costs and realize the considerable management benefits of centralizing the boot process In SAN Boot you can deploy diskless servers in an environment where the boot disk is located on often RAID capable storage connected to the SAN The server initiator communicates with the storage device target through the SAN using the Fibre Channel host bus adapter HBA The system downtime is greatly minimized in case a critical component such as a processor memory or host bus adapter fails and needs to be replaced The system administrator needs to swap only the hardware and reconfigure the HBA s BIOS switch zoning and host port definitions on the storage server The system image still exists on the logical drive therefore the server is fully operational after the hardware swap and configuration change is completed This IBM Redbooks publication can help you with the SAN Boot implementation We present various SAN Boot scenarios using IBM System Storage products that include DS5000 DS8000 XIV and SVC The operating systems that are covered include Windows 2008 Red Hat Linux SUSE Linux and VMware *IBM zEnterprise 196 Technical Guide* Bill White,Erik Bakker,Parwez Hamid,Octavian Lascu,Fernando Nogal,Frank Packeiser,Vicente Ranieri Jr.,Karl-Erik Stenfors,Esra Ufacik,Chen Zhu,IBM Redbooks,2012-03-19 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 **ISV IBM zPDT Guide and Reference** Bill Ogden,IBM Redbooks,2022-12-13 This IBM Redbooks publication provides both introductory information and technical details for ISV IBM Z Program Development Tool IBM zPDT which produces a small IBM zSystems environment that is suitable for application development ISV zPDT is a personal computer PC Linux application When ISV zPDT is installed on Linux normal IBM zSystems operating systems such as IBM z OS may be run on it ISV zPDT provides the basic IBM zSystems architecture and provides emulated IBM 3390 disk drives 3270 interfaces Open Systems Adapter OSA interfaces and other items The systems that are described in this publication are complex with elements of Linux for the underlying PC machine IBM z Architecture for the core zPDT elements IBM zSystems I O functions for emulated I O devices z OS the most common IBM zSystems operating system and various applications and subsystems under z OS We assume that the reader is familiar with general concepts and terminology of IBM zSystems hardware and software elements and with basic PC Linux characteristics This publication provides the primary documentation for ISV zPDT and corresponds to zPDT V1 R11 commonly known as GA11 *IBM Virtual Disk System Quickstart Guide* Sangam Racherla,Jure Arzenšek,Jamal Boudi,Dharmesh Kamdar, Van Tran,IBM Redbooks,2010-02-17 This IBM Redbooks publication is a quickstart guide for implementing an IBM virtual disk system We use the term IBM virtual disk system to collectively refer to IBM SAN Volume Controller SVC System Storage Productivity Center SSPC IBM mid range storage DS3400 in this case and IBM Brocade SAN Switches IBM System Storage SAN Volume Controller SVC is a virtualization appliance solution that maps virtualized volumes visible to hosts and applications to physical volumes on storage devices The IBM virtualization technology improves management of information at the block level in a network enabling applications and servers to share storage devices on a network With IBM System Storage Productivity Center SSPC TM administrators can manage storage along with the other devices in the storage environment This greatly simplifies management of even the most basic storage environments and the awareness of environment helps to reduce accidental errors that can cause downtime SSPC comes preloaded with IBM Tivoli Storage Productivity Center products enables end to end disk management on single screen and supports management of heterogeneous systems and devices IBM zEnterprise 114 Technical Guide Bill White,Octavian Lascu,Erik Bakker,Parwez Hamid,Fernando Nogal, Frank Packheiser,Vicente Ranieri Jr.,Karl-Erik Stenfors,Esra Ufacik,Chen Zhu,IBM

Redbooks,2012-02-27 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 This IBM Redbooks publication discusses the IBM zEnterprise System an IBM scalable mainframe server IBM is taking a revolutionary approach by integrating separate platforms under the well proven System z hardware management capabilities while extending System z qualities of service to those platforms The zEnterprise System consists of the IBM zEnterprise 114 central processor complex the IBM zEnterprise Unified Resource Manager and the IBM zEnterprise BladeCenter Extension The z114 is designed with improved scalability performance security resiliency availability and virtualization The z114 provides up to 18% improvement in uniprocessor speed and up to a 12% increase in total system capacity for z OS z VM and Linux on System z over the z10™ Business Class BC The zBX infrastructure works with the z114 to enhance System z virtualization and management through an integrated hardware platform that spans mainframe POWER7™ and System x technologies The federated capacity from multiple architectures of the zEnterprise System is managed as a single pool of resources integrating system and workload management across the environment through the Unified Resource Manager This book 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

Catalog of Copyright Entries. Third Series Library of Congress. Copyright Office,1967 Includes Part 1 Number 1 Books and Pamphlets Including Serials and Contributions to Periodicals January June      **Using the IBM System Storage N series with IBM Tivoli Storage Manager** Alex Osuna,Roland Tretau,IBM Redbooks,2010-04-29 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     The Manager's Pocket Guide to Strategic and Business Planning Stephen G. Haines,1999 Enterprises in today s Global Information Age must keep up with rapid changes in technology while overhauling businesses programs and operations to meet the changing values and demands of customers and employees This guide will aid you in applying the Systems Thinking Approach to your strategic and business planning by explaining how to develop a strategic plan ensure successful implementation of the plan and build and sustain high performance over the long haul     **The IT Manager's Survival Guide** Rob Aalders,Peter Hind,2003-03-28 Accessible refreshingly candid but above all helpful this pragmatic guide addresses a real need by dealing with the problems that face the new IT manager By providing a number of practical recommendations and approaches including how to make the transition from technical professional to manager and dealing with people to giving advice and guidance on organization structure architecture and planning approaches this book covers a whole raft of issues essential to managing an IT unit If you have chosen to move from the safe haven of technology to the unpredictable world of management this book could make the difference between success and failure The IT Manager s Survival Guide is well named Aimed at the techie becoming an IT Manager it covers the many alligators of IT management from legacy systems to managing vendors in easy chunks with checklists It also provides the new manager with help to get ahead of the game by including articles from experts on what is wrong with IT management and a set of short reviews of management theorists from Strassman to Mayo I recommend this book for those who would like to buck the trend the average tenure of an IT Manager is about 900 days and run an IT outfit appreciated by customers and staff Gill Ringland Fellow of the British Computer Society and Member of the BCS Management Forum Author of Scenario Planning Managing for the Future     Bit by Bit Catalyst (Organization),2003 A toolkit loaded with company practices examples tips and advice The four booklets will help you Get a handle on the issues identify and manage talent and make work life effectiveness work     *Gabon Investment and Business Guide Volume 1 Strategic and Practical Information* IBP USA,2013-08 Gabon Investment and Business Guide Strategic and Practical Information

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