

# IBM Systems

IBM Director Hardware Management Console Installation and User's Guide

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# **Ibm System Director Installation Guide**

Hernando Bedoya, Mark Roy, Nandoo Neerukonda, Petri Nuutinen, IBM Redbooks

#### **Ibm System Director Installation Guide:**

IBM Systems Director VMControl Implementation Guide on IBM Power Systems Dino Quintero, Lutz Denefleh, 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 Systems Director 6.3 Best Practices: Installation and Configuration David Watts, Olaf Menke, Donal O'Connell, Edward Banaag, IBM Redbooks, 2013-04-09 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 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 VMControlTM 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 ManagerTM 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 Power Systems HMC Implementation and Usage Guide Scott Vetter, Attha Surya Dharma, Mark Hais, Minsung Kang, Yuta Wakayama, IBM Redbooks, 2015-05-22 The IBM Hardware Management Console HMC provides systems administrators a tool for planning deploying and managing IBM Power SystemsTM 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 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 TM with IBM Power HA 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 zEnterprise BC12 Technical Guide Octavian Lascu, Hua Bin Chu, Ivan Dobos, Luiz Fadel, Wolfgang Fries, Parwez Hamid, Fernando E Nogal, Frank Packheiser, Ewerson Palacio, Martijn Raave, Vicente Ranieri Jr., Andre Spahni, Chen Zhu, IBM Redbooks, 2015-03-03 The popularity of the Internet and the affordability of information technology IT hardware and software have resulted in an explosion dramatic increase in the number of applications architectures and platforms Workloads have changed Many applications including mission critical ones are deployed on a variety of platforms and the IBM 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 provides information about the IBM zEnterprise BC12 zBC12 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 zBC12 central processor complex the IBM zEnterprise Unified Resource Manager and the IBM zEnterprise BladeCenter Extension zBX The zBC12 is designed with improved scalability performance security resiliency availability and virtualization The zBC12 provides the following improvements over its predecessor the IBM zEnterprise 114 z114 Up to a 36% performance boost per core running at 4 2 GHz Up to 58% more capacity for traditional workloads Up to 62% more capacity for Linux workloads The zBX infrastructure works with the zBC12 to enhance System z virtualization and management through an integrated hardware platform that spans mainframe IBM POWER7 and IBM 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 zBC12 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 who wants to understand 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 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 z10TM 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 POWER7TM 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 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 z10TM 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 POWER7TM 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 IBM zEnterprise EC12 Technical Guide Octavian Lascu, Ivan Dobos, Wolfgang Fries, Hua Bin Chu, Luiz Fadel, Martijn Raave, Fernando Nogal, Frank Packheiser, Vicente Ranieri, Ewerson Palacio, Andre Spahni, Chen Zhu, Parwez Hamid, IBM Redbooks, 2015-03-04 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 various platforms and the IBM 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 addresses the new IBM zEnterprise System This system consists of the IBM zEnterprise EC12 zEC12 an updated IBM zEnterprise Unified Resource Manager and the IBM zEnterprise BladeCenter Extension zBX Model 003 The zEC12 is designed with improved scalability performance security resiliency availability and virtualization The superscalar design allows the zEC12 to deliver a record level of capacity over the prior System z servers It is powered by 120 of the world's most powerful microprocessors. These microprocessors run at 5.5 GHz and are capable of running more than 75 000 millions of instructions per second MIPS The zEC12 Model HA1 is estimated to provide up to 50% more total system capacity than the IBM zEnterprise 196 z196 Model M80 The zBX Model 003 infrastructure works with the zEC12 to enhance System z virtualization and management It does so through an integrated hardware platform that spans mainframe IBM POWER7 and IBM 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 book provides information about the zEnterprise System and its functions features and associated software support Greater detail is offered in areas relevant to technical planning It is intended for systems engineers consultants planners and anyone who wants 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 IBM Systems Director Navigator for i Brandon Schulz, Giancarlo Omati, Morten Buur Rasmussen, Johnnie Talamantes, Claudio Villalobos, Brian Younger, IBM Redbooks, 2009-12-02 In this IBM Redbooks publication we discuss IBM Systems Director Navigator for i which is a Web console interface for IBM i administration where you can work with the Web enabled tasks of System i Navigator IBM Systems Director Navigator for i includes a number of

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interface We also describe the performance characteristics of the XIV Storage System and present options for alerting and monitoring including enhanced secure remote support This book is for IT professionals who want an understanding of the XIV Storage System It is also for readers who need detailed advice on how to configure and use the system **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 SystemsTM 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 RedpaperTM 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

WebSphere Cloudburst Appliance and PowerVM Shivaji D Bhosale, Martin Cernicky, Paul Reynolds, Margaret Ticknor, IBM Redbooks, 2010-10-21 This IBM Redbooks publication discusses the concepts and implementation of PowerVMTM and the WebSphere CloudBurstTM 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 deployments of their software This book includes an introduction to cloud computing and how the WebSphere CloudBurst appliance fits into business today It presents the features and benefits of using the WebSphere CloudBurst Appliance and the advantages of using PowerVM It provides the steps required to implement WebSphere CloudBurst appliance with PowerVM Exploiting IBM AIX Workload Partitions Dino Quintero, Shane Brandon, Bernhard Buehler, Thierry Fauck, Guilherme Galoppini Felix, Chris Gibson, Bob Maher, Mehboob Mithaiwala, Kurosh Khan-Afshar Moha, Mathis Mueller, Bjorn Roden, Marian Tomescu, IBM

Redbooks, 2011-10-14 This IBM Redbooks publication provides an update of the latest AIX Workload Partition WPAR capabilities It provides a how to guide and well defined and documented deployment model for system administrators and architects using WPARs in AIX Version 7 1 within an IBM POWER System virtualized environment This book helps clients create a planned foundation for their future deployments This book is targeted toward technical professionals such as business intelligence BI consultants technical support staff IT architects and IT specialists who are responsible for providing solutions and support for IBM POWER Systems and IBM AIX Version 7 1 End to End Performance Management on IBM i Hernando Bedoya, Mark Roy, Nandoo Neerukonda, Petri Nuutinen, IBM Redbooks, 2009-11-23 Monitoring and managing your system's performance is critical to ensure that you are keeping pace with the changing demands of your business To respond to business changes effectively your system must change too Managing your system at first glance might seem like just another time consuming job But the investment soon pays off because the system runs more efficiently and this is reflected in your business It is efficient because changes are planned and managed Managing performance of any system can be a complex task that requires a thorough understanding of that system's hardware and software IBM i is an industry leader in the area of performance management and has many qualities that are not found in other systems such as Unparalleled performance metrics Always on collection of metrics Graphical investigation of performance data While understanding all the different processes that affect system performance can be challenging and resolving performance problems requires the effective use of a large suite of tools the functions offered by IBM i are intended to make this job easier for users This IBM Redbooks publication explains the tasks and rich tools associated with performance management on IBM i 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 StorageTM N series has become more tightly integrated with network attached storage NAS exploiting the backup and recovery features of the N series and Network ApplianceTM 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 gtrees 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 Expert Oracle GoldenGate Snapshot technology and SnapVault Using SnapShot differencing Using SnapMirror to Tape Ben Prusinski, Steve Phillips, Shing Chung, 2011-10-07 Expert Oracle Golden Gate is a hands on guide to creating and

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