

IBM System x3550 M4

IBM Redbooks Product Guide

The IBM® System x3550 M4 server provides outstanding performance for your business-critical applications. Its energy-efficient design supports more cores, memory, and data capacity in a compact 1U package that is easy to service and manage. With more computing power per watt and the latest Intel Xeon processors, you can reduce costs while maintaining speed and availability.

Suggested use: database, virtualization, enterprise applications, collaboration/email, streaming media, web, HPC, and cloud applications.

Figure 1 shows the IBM System x3550 M4.



Figure 1. The IBM System x3550 M4

Did you know?

The x3550 M4 offers a flexible, scalable design and a simple upgrade path to eight HDDs plus an optical drive at the same time, and up to 768 GB of memory. The flexible on-board Ethernet solution provides four standard integrated Gigabit Ethernet ports and two optional embedded 10 Gb Ethernet ports without occupying PCIe slots. Comprehensive systems management tools with the next-generation Integrated Management Module II (IMM2) make it easy to deploy, integrate, service, and manage.

Ibm X3550 User Manual

DP Hallahan



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IBM Midrange System Storage Hardware Guide Sangam Racherla, Bruce Allworth, Alessio Bagnaresi, Chris Bogdanowicz, Corne Lottering, Pablo Pedrazas, Frank Schubert, John Sexton, Alexander Watson, IBM Redbooks, 2010-03-16 This IBM Redbooks publication consolidates in one document detailed descriptions of the hardware configurations and options offered as part of the IBM Midrange System StorageTM 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

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

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 Midrange System Storage Implementation and Best Practices Guide Sangam Racherla,Bruce Allworth,Alessio Bagnaresi,Chris Bogdanowicz,Corne Lottering,Pablo Pedrazas,Frank Schubert,John Sexton,Alexander Watson,IBM Redbooks,2010-03-31 This IBM Redbooks publication represents a compilation of best practices for deploying and configuring IBM Midrange System StorageTM 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 HACMPTM and General Parallel File System GPFSTTM 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

Handbook of Energy-Aware and Green Computing - Two Volume Set Ishfaq Ahmad,Sanjay Ranka,2016-02-03 Implementing energy efficient CPUs and peripherals as well as reducing resource consumption have become emerging trends in computing As computers increase in speed and power their energy issues become more and more prevalent The

need to develop and promote environmentally friendly computer technologies and systems has also come to the forefront

A Guide to the IBM Clustered Network File System Ira Chavis,Dave Coutts,Bob Demkowicz,Jay Huie,Shuzheng Liu,Sheryl Qualters,Daniel Turkenkopf,IBM Redbooks,2012-08-03 The Clustered Network File System CNFS is a capability based on IBM General Parallel File System GPFSTM 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

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 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

IBM Tivoli Storage Productivity Center V5.1 Technical Guide Mary Lovelace,Mark Blunden,Daniel Frueh,Curtis Neal,Danijel Paulin,Christian Sonder,Markus Standau,IBM Redbooks,2014-04-08 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

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Handbook of Energy-Aware and Green Computing, Volume 2 Ishfaq Ahmad, Sanjay Ranka, 2013-01-31. This book provides basic and fundamental knowledge of various aspects of energy aware computing at the component, software, and system level. It provides a broad range of topics dealing with power, energy, and temperature related research areas for individuals from industry and academia.

Implementing the IBM System Storage SAN Volume Controller with IBM Spectrum Virtualize V8.2.1 Jon Tate, Jack Armstrong, Tiago Bastos, Pawel Brodacki, Frank Enders, Sergey Kubin, Danilo Miyasiro, Rodrigo Suzuki, IBM Redbooks, 2019-07-04. This IBM Redbooks publication is a detailed technical guide to the IBM System Storage SAN Volume Controller SVC, which is powered by IBM Spectrum™ Virtualize V8.2.1. IBM SAN Volume Controller is a virtualization appliance solution that maps virtualized volumes that are visible to hosts and applications to physical volumes on storage devices. Each server within the storage area network (SAN) has its own set of virtual storage addresses that are mapped to physical addresses. If the physical addresses change, the server continues running by using the same virtual addresses that it had before. Therefore, volumes or storage can be added or moved while the server is still running. The IBM virtualization technology improves the management of information at the block level in a network, which enables applications and servers to share storage devices on a network.

IBM Reference Configuration for VMware on System x with SmartCloud Entry Srihari Angaluri, Joshua Jankowsky, George Rainovic, Marco Rengan, IBM Redbooks, 2012-07-21. IBM SmartCloud™ Entry provides a fully integrated software stack for transforming a virtualized environment to a cloud environment. The intuitive self-service portal allows users to get up and running quickly. Built-in workload metering and additional tools enable tight controls and planning. The IBM Reference Configuration for VMware on IBM System x with SmartCloud Entry provides an affordable, easy-to-deploy private cloud architecture with configurations based on leading edge technology from IBM, VMware, and Juniper Networks. The reference configuration is for mid-sized companies that need simpler and affordable IT solutions without compromising on functionality. IBM and VMware world leaders in enterprise class IT solutions are now bringing IT solutions tailored to the midmarket. This IBM Redpaper™

publication provides setup configuration and deployment details for the reference configuration and is intended for IT professionals who are familiar with software and hardware setup and configuration

Intelligent Technologies and Engineering Systems Jengnan Juang, Yi-Cheng Huang, 2013-05-21 This book concentrates on intelligent technologies as it relates to engineering systems The book covers the following topics networking signal processing artificial intelligence control and software engineering intelligent electronic circuits and systems communications and materials and mechanical engineering The book is a collection of original papers that have been reviewed by technical editors These papers were presented at the International Conference on Intelligent Technologies and Engineering Systems held Dec 13 15 2012

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PC Magazine ,2008-07

IBM Power 720 and 740 Technical Overview and Introduction Scott Vetter, James Cruickshank, Sorin Hanganu, Volker Haug, Stephen Lutz, John T Schmidt, Marco Vallone, IBM Redbooks, 2013-05-16 This IBM Redpaper™ publication is a comprehensive guide covering the IBM Power 720 and Power 740 servers that support IBM AIX IBM i and Linux operating systems The goal of this paper is to introduce the innovative Power 720 and Power 740 offerings and their major functions The IBM POWER7™ processor is available at frequencies of 3.6 GHz and 4.2 GHz The larger IBM POWER7 Level 3 cache provides greater bandwidth capacity and reliability The 4 port 10/100/1000 Base TX Ethernet PCI Express adapter is included in base configuration and installed in a PCIe Gen2 x4 slot The integrated SAS/SATA controller for HDD/SSD/tape and DVD supports built-in hardware RAID 0, 1 and 10 New IBM PowerVM V2.2.2 features such as 20 LPARs per core The improved IBM Active Memory™ Expansion technology provides more usable memory than is physically installed in the system High performance SSD drawer 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 720 and Power 740 systems This paper does not replace the latest marketing materials and configuration tools It is intended as an additional source of information that together with existing sources can be used to enhance your knowledge of IBM server solutions

Service Oriented, Holonic and Multi-Agent Manufacturing Systems for Industry of the Future Theodor Borangiu, Damien Trentesaux, Paulo Leitão, 2023-02-01 The scientific theme of the book is Virtualisation a multifaceted key enabler of Industry 4.0 from holonic to cloud manufacturing which is addressed in the framework of cyber physical system development The book approaches cyber physical systems for manufacturing with emergent digital technologies Internet of Things digital twins based on the virtualization of production models embedded in the design virtual commissioning optimization and resilience of processes and fault tolerance of resources big data cloud control and

computing machine learning and cobots that are applied in the book's chapters to industry and service sectors such as manufacturing energy logistics construction and health care The novelty of this approach consists in interpreting and applying the characteristics of RAMI4.0 the reference architecture model of the Industry 4.0 framework as combinations of virtualized cyber physical system elements and IT components in life cycle value stream models The general scope of the book is to foster innovation in smart and sustainable manufacturing and logistics systems and in this context to promote concepts methods and solutions for the digital transformation of manufacturing through service orientation in holonic and agent based control with distributed intelligence The book's readership is comprised by researchers and engineers working in the manufacturing value chain area who develop and use digital control solutions in the Industry of the Future vision The book also addresses to master's and Ph.D students enrolled in Engineering Sciences programs Implementing IBM

InfoSphere BigInsights on IBM System x Mike Ebbers, Renata Ghislotti de Souza, Marcelo Correia Lima, Peter McCullagh, Michael Nobles, Dustin VanStee, Brandon Waters, IBM Redbooks, 2013-06-12 As world activities become more integrated the rate of data growth has been increasing exponentially And as a result of this data explosion current data management methods can become inadequate People are using the term big data sometimes referred to as Big Data to describe this latest industry trend IBM is preparing the next generation of technology to meet these data management challenges To provide the capability of incorporating big data sources and analytics of these sources IBM developed a stream computing product that is based on the open source computing framework Apache Hadoop Each product in the framework provides unique capabilities to the data management environment and further enhances the value of your data warehouse investment In this IBM Redbooks publication we describe the need for big data in an organization We then introduce IBM InfoSphere BigInsights™ and explain how it differs from standard Hadoop BigInsights provides a packaged Hadoop distribution a greatly simplified installation of Hadoop and corresponding open source tools for application development data movement and cluster management BigInsights also brings more options for data security and as a component of the IBM big data platform it provides potential integration points with the other components of the platform A new chapter has been added to this edition Chapter 11 describes IBM Platform Symphony which is a new scheduling product that works with IBM Insights bringing low latency scheduling and multi tenancy to IBM InfoSphere BigInsights The book is designed for clients consultants and other technical professionals **IBM Systems Director Management Console: Introduction and**

Overview Scott Vetter, Thomas Libor PhD, Allen Oh, Lakshmikanthan Selvarajan, Peter Wuestefeld, IBM Redbooks, 2011-09-22 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

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