



## IBM System x3550 M3

### IBM Redbooks Product Guide

The IBM® System x3550 M3 builds on the latest Intel Xeon processor technology with extreme processing power and superior energy-management and cooling features. With twice the performance of previous generations and a flexible, energy-smart design that integrates low-voltage components, the x3550 M3 can help you meet demanding workloads at a lower cost per watt.

**Suggested uses:** customers requiring a highly available, energy-efficient, rack-optimized solution for physical and virtual intensive commercial environments like eBusiness/eCommerce, collaboration, virtualization, database, and enterprise resource planning applications.

Figure 1 shows the IBM System x3550 M3.



Figure 1. The IBM System x3550 M3

#### Did you know?

The x3550 M3 offers a flexible, scalable design and simple upgrade path to eight HDDs or SSDs, and 288 GB of memory. In addition, a built-in altimeter provides more efficient power utilization and lower noise levels.

Comprehensive systems management tools such as advanced diagnostics, a cable management arm, and the ability to control resources from a single point make it easy to deploy, integrate, service, and manage. The server also offers an upgrade to four built-in Gigabit Ethernet ports without consuming an additional PCI Express slot.

# Ibm System X3550 M3 Server Guide

**Sangam Racherla,Matus  
Butora,Antonio Dell'Apa,Mario  
Ganem,Corne Lottering,Libor  
Miklas,Hrvoje Stanilovic,Alexander  
Watson,IBM Redbooks**

## **Ibm System X3550 M3 Server Guide:**

**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 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 CloudBurst on System x**

Byron Braswell,Armando Lemos,Rafael Moleiro,Paolo Ottaviano,Ferenc Rada,Maciej Widomski,IBM Redbooks,2012-05-04 This IBM Redbooks publication gives an overview of Cloud solutions followed by detailed information and usage scenarios for IBM CloudBurst in a System x environment Cloud computing can be defined as a style of computing in which dynamically scalable resources such as CPU storage or bandwidth are provided as a service over the Internet Cloud computing represents a massively scalable self service delivery model where processing storage networking and applications can be accessed as services over the Internet Enterprises can adopt cloud models to improve employee productivity deploy new products and services faster and reduce operating costs starting with workloads such as development and test virtual desktop collaboration and analytics IBM provides a scalable variety of cloud solutions to meet these needs This IBM Redbooks publication helps you to tailor an IBM CloudBurst installation on System x to meet virtualized computing requirements in a private cloud environment This book is intended for IT support personnel who are responsible for customizing IBM CloudBurst to meet business cloud computing objectives     **xREF: System x Reference** David Watts,Ilya Krutov,IBM Redbooks,2015-05-18 Lenovo System x and BladeCenter servers and Lenovo Flex System™ compute nodes help to deliver a dynamic infrastructure that provides leadership quality and service that you can trust This document simply known as xREF is a quick reference guide to the specifications of the currently available models of each System x and BladeCenter server Each page can be used in a stand alone format and provides a dense and comprehensive summary of the features of that particular server model Links to the related Product Guide are also provided for more information An easy to remember link you can use to share this guide <http://lenovopress.com/xref> Also available is xREF for Products Withdrawn Prior to 2012 a document that contains xREF sheets of System x BladeCenter and xSeries servers and IntelliStation workstations that were withdrawn from marketing prior to 2012 Changes in the May 18 update Added the Flex System Carrier Grade Chassis See the Summary of changes in the document for a complete change history     **Storage and Network Convergence Using FCoE and iSCSI** Sangam Racherla,Silvio Erdenberger,Harish Rajagopal,Kai Ruth,IBM Redbooks,2014-07-18 Along with servers and networking infrastructure networked storage is one of the fundamental components of a modern data center Because storage networking has evolved over the past two decades the industry has settled on the basic storage networking technologies These technologies are Fibre Channel FC storage area networks SANs Internet Small Computer System Interface iSCSI based Ethernet attachment and Ethernet based network attached storage NAS Today lossless low latency high speed FC SANs are viewed as the high performance option for networked storage iSCSI and NAS are viewed as lower cost lower performance technologies The advent of the 100 Gbps Ethernet and Data Center Bridging DCB standards for lossless Ethernet give Ethernet technology many of the desirable characteristics that make FC the preferred storage networking technology These characteristics include comparable speed low latency and lossless behavior Coupled with an ongoing industry drive toward better asset utilization and lower total cost of ownership these

advances open the door for organizations to consider consolidating and converging their networked storage infrastructures with their Ethernet data networks Fibre Channel over Ethernet FCoE is one approach to this convergence but 10 Gbps enabled iSCSI also offers compelling options for many organizations with the hope that their performance can now rival that of FC This IBM Redbooks publication is written for experienced systems storage and network administrators who want to integrate the IBM System Networking and Storage technology successfully into new and existing networks This book provides an overview of today's options for storage networking convergence It reviews the technology background for each of these options and then examines detailed scenarios for them by using IBM and IBM Business Partner convergence products

**Exploring IBM EServer XSeries** Jim Hoskins,Bill Wilson,Ray Winkel,2003 Annotation Introducing the brands of Intel based IBM computers this guide shows how to integrate these systems into business for greater efficiency productivity and overall business management Written for nontechnical users the most current xSeries information is included Differences and uses for the assorted computers are detailed as are the latest peripherals software options and networking issues Guidelines for choosing operating systems to fit business needs are also discussed *IBM EServer XSeries 450 Planning and Installation Guide* David Watts,Gerry McGettigan,Michael Nelson,Lubos Nikolini,Jose Ruibal,2003 The IBM eServer xSeries 450 is IBM's new 64 bit Itanium Processor Family IPF Architecture server and is the first implementation of the 64 bit IBM XA 64 chipset as part of the Enterprise X Architecture strategy This IBM Redbooks publication is a comprehensive resource on the technical aspects of the server and is divided into five key subject areas Chapter 1 Technical description introduces the server and its subsystems and describes the key features and how they work This includes the new Extensible Firmware Interface which provides a powerful replacement to the BIOS facility found on the IA 32 platform Chapter 2 Positioning examines the types of applications that would be used on a server such as the x450 Chapter 3 Planning describes the considerations when planning to purchase and planning to install the x450 It covers such topics as configuration operating system specifics scalability and physical site planning Chapter 4 Installation covers the process of installing Windows Server 2003 Enterprise Edition and SuSE Linux Enterprise Server on the x450 Chapter 5 Management describes how to use the Remote Supervisor Adapter to send alerts to an IBM Director management environment *IBM System Storage N Series Multiprotocol Use Guide* IBM Redbooks,Alex Osuna,Gary R. Nunn,Ellie Berriman,2007-01-01

**Server Time Protocol Planning Guide** Octavian Lascu,Hans-Peter Eckam,George Kozakos,Paulo Vitor Pereira,IBM Redbooks,2016-04-12 Server Time Protocol STP is a server wide facility that is implemented in the Licensed Internal Code LIC of the IBM zEnterprise Servers zEC12 z196 and z114 System z10TM Enterprise Class z10 EC System z10 Business Class z10 BC IBM System z9 Enterprise Class z9 EC System z9 Business Class z9 BC and zSeries z990 and z890 servers It provides improved time synchronization in a sysplex or non sysplex configuration This IBM Redbooks publication is intended for infrastructure architects and system programmers who need to understand the IBM STP functions

Readers are expected to be generally familiar with System z technology and terminology This book provides planning information for Server Time Protocol functions and associated software support For more detailed installation operation and recovery information refer to the companion books Server Time Protocol Implementation Guide SG24 7281 and Server Time Protocol Recovery Guide SG24 7380 *IBM Personal System/2 Advanced Server Planning Guide* International Business Machines Corporation. International Technical Support Center,1991 **IBM E-server XSeries 445 Planning and Installation Guide** David Watts,2003-01-01 **Server Time Protocol Recovery Guide** Octavian Lascu,Hans-Peter Eckam,George Kozakos,Paulo Vitor Pereira,IBM Redbooks,2014-05-20 Server Time Protocol STP is a server wide facility that is implemented in the Licensed Internal Code LIC of the IBM zEnterprise EC12 zEC12 IBM zEnterprise 196 z196 IBM zEnterprise 114 z114 IBM System z10TM Enterprise Class z10 EC System z10 Business Class z10 BC IBM System z9 Enterprise Class z9 EC and System z9 Business Class z9 BC It provides improved time synchronization in a sysplex or non sysplex configuration This IBM Redbooks publication will help you plan for and recover from a failure affecting your Mixed or STP only Coordinated Timing Network It is intended for technical support personnel requiring information about Recovery concepts and definitions Identifying and taking appropriate actions for recovering from a failed component in a Coordinated Timing Network Readers are expected to be familiar with IBM System z technology and terminology For planning information refer to our companion book Server Time Protocol Planning Guide SG24 7280 and for implementation details refer to Server Time Protocol Implementation Guide SG24 7281 IBM System Z9 109 Configuration Setup Franck Inje,2006 **IBM InfoSphere Information Server Installation and Configuration Guide** Patrick (Danny) Owen,2011 IBM E-server XSeries 440 Planning and Installation Guide IBM Redbooks,David Watts,2002 **Server Time Protocol Implementation Guide** Octavian Lascu,Hans-Peter Eckam,George Kozakos,Paulo Pereira,2013 Server Time Protocol STP is a server wide facility that is implemented in the Licensed Internal Code LIC of IBM zEnterprise EC12 zEC12 IBM zEnterprise 196 z196 IBM zEnterprise 114 z114 IBM System z10 and IBM System z9 It provides improved time synchronization in both a sysplex or non sysplex configuration This IBM Redbooks publication will help you configure a Mixed Coordinated Timing Network CTN or an STP only CTN It is intended for technical support personnel requiring information about Installing and configuring a Coordinated Timing Network Using STP functions and operations Migrating to a Coordinated Timing Network from various timing environments Readers are expected to be familiar with IBM System z technology and terminology For planning information see our companion book Server Time Protocol Planning Guide SG24 7280 For information about how to recover your STP environment functionality see the Server Time Protocol Recovery Guide SG24 7380 *IBM InfoSphere Information Server Installation and Configuration Guide* , **z/VM and Linux on IBM System z: The Virtualization Cookbook for Red Hat Enterprise Linux 6.0** Michael MacIsaac,Brad Hinson,IBM Redbooks,2011-02-18 This IBM Redbooks publication describes how to create Linux virtual servers in IBM z VM on IBM System z hardware This book adopts

a cookbook format that provides a concise repeatable set of procedures for installing and configuring z VM in a logical partition LPAR and then installing and customizing Linux You need an IBM System z LPAR with the associated resources z VM V6 1 media and a Linux distribution This book assumes that you have a general familiarity with System z technology and terminology It does not assume an in depth understanding of z VM and Linux It is written for those clients who want to get a quick start with z VM and Linux on the mainframe

**Server Time Protocol Planning Guide** Octavian Lascu,Hans-Peter Eckam,George Kozakos,Paulo Pereira,2013 Server Time Protocol STP is a server wide facility that is implemented in the Licensed Internal Code LIC of the IBM zEnterprise Servers zEC12 z196 and z114 System z10 Enterprise Class z10 EC System z10 Business Class z10 BC IBM System z9 Enterprise Class z9 EC System z9 Business Class z9 BC and zSeries z990 and z890 servers It provides improved time synchronization in a sysplex or non sysplex configuration This IBM Redbooks publication is intended for infrastructure architects and system programmers who need to understand the IBM STP functions Readers are expected to be generally familiar with System z technology and terminology This book provides planning information for Server Time Protocol functions and associated software support For more detailed installation operation and recovery information refer to the companion books Server Time Protocol Implementation Guide SG24 7281 and Server Time Protocol Recovery Guide SG24 7380

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## **Table of Contents Ibm System X3550 M3 Server Guide**

1. Understanding the eBook Ibm System X3550 M3 Server Guide
  - The Rise of Digital Reading Ibm System X3550 M3 Server Guide
  - Advantages of eBooks Over Traditional Books
2. Identifying Ibm System X3550 M3 Server Guide
  - Exploring Different Genres
  - Considering Fiction vs. Non-Fiction
  - Determining Your Reading Goals
3. Choosing the Right eBook Platform
  - Popular eBook Platforms
  - Features to Look for in an Ibm System X3550 M3 Server Guide
  - User-Friendly Interface
4. Exploring eBook Recommendations from Ibm System X3550 M3 Server Guide
  - Personalized Recommendations
  - Ibm System X3550 M3 Server Guide User Reviews and Ratings
  - Ibm System X3550 M3 Server Guide and Bestseller Lists
5. Accessing Ibm System X3550 M3 Server Guide Free and Paid eBooks
  - Ibm System X3550 M3 Server Guide Public Domain eBooks
  - Ibm System X3550 M3 Server Guide eBook Subscription Services



- Ibm System X3550 M3 Server Guide Budget-Friendly Options
- 6. Navigating Ibm System X3550 M3 Server Guide eBook Formats
  - ePub, PDF, MOBI, and More
  - Ibm System X3550 M3 Server Guide Compatibility with Devices
  - Ibm System X3550 M3 Server Guide Enhanced eBook Features
- 7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Ibm System X3550 M3 Server Guide
  - Highlighting and Note-Taking Ibm System X3550 M3 Server Guide
  - Interactive Elements Ibm System X3550 M3 Server Guide
- 8. Staying Engaged with Ibm System X3550 M3 Server Guide
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Ibm System X3550 M3 Server Guide
- 9. Balancing eBooks and Physical Books Ibm System X3550 M3 Server Guide
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Ibm System X3550 M3 Server Guide
- 10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
- 11. Cultivating a Reading Routine Ibm System X3550 M3 Server Guide
  - Setting Reading Goals Ibm System X3550 M3 Server Guide
  - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Ibm System X3550 M3 Server Guide
  - Fact-Checking eBook Content of Ibm System X3550 M3 Server Guide
  - Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
  - Utilizing eBooks for Skill Development
  - Exploring Educational eBooks
- 14. Embracing eBook Trends

- Integration of Multimedia Elements
- Interactive and Gamified eBooks

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