



IBM System Storage DS3500 and EXP3500 Rack Installation and Quick Start Guide

This *Rack Installation and Quick Start Guide* describes the basic procedure for installing the IBM® System Storage® DS3500 storage subsystem and the IBM System Storage EXP3500 storage enclosure. The information in this document pertains to the DS3512 and DS3524 storage subsystems, and the EXP3512 and EXP3524 storage enclosures.

For information about cabling and configuring the DS3500 storage subsystem and the EXP3500 storage enclosure, see the *IBM System Storage DS3500 and EXP3500 Installation, User's, and Maintenance Guide* that came with the hardware.

For educational information about the DS3500 and other IBM System Storage products, go to <http://ibmdsseriestraining.com/>

For the latest information about IBM System Storage disk storage systems, including all of the DS3000 storage subsystems and storage enclosures, go to <http://www.ibm.com/systems/support/storage/disk>

For safety information, see the multilingual *IBM Safety Information* document on the Documentation CD.

Rack installation guidelines

Review the documentation that came with your rack cabinet for safety and cabling information. Before you install the storage subsystem in a rack cabinet, review the following guidelines:

- Two or more people are required to install devices 18 kg (39.7 lb) or heavier in a rack cabinet.
- Make sure that the room air temperature is below 35°C (95°F).
- Do not block any air vents; usually 15 cm (6 in.) of space provides proper airflow.
- Do not leave open spaces above or below an installed storage subsystem in your rack cabinet. To help prevent damage to storage subsystem components, always install a blank filler panel to cover the open space and to help ensure proper air circulation.
- Install the storage subsystem or expansion enclosure only in a rack cabinet with perforated doors.
- Plan the device installation starting from the bottom of the rack cabinet.
- Install the heaviest device in the bottom of the rack cabinet.
- Do not extend more than one device out of the rack cabinet at the same time.
- Remove the rack doors and side panels to provide easier access during installation.
- Connect the storage subsystem or expansion enclosure to a properly grounded outlet.
- Do not overload the power outlet when you install multiple devices in the rack cabinet.
- The storage subsystem or expansion enclosure requires 2 U of vertical space in the rack cabinet.



Use safe practices when lifting.



≈18 kg (39.7 lb)



≈32 kg (70.5 lb)



≈55 kg (121.2 lb)

Ibm Ds3500 Configuration Guide

**Sangam Racherla,Reza Fanaei
Aghdam,Hartmut Lonzer,L G (Len)
O'Neill,Mario Rodriguez,Vaclav
Sindelar,Alexander Watson,IBM
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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 DS3500 Introduction and Implementation Guide IBM

Redbooks, 2011-05-20

VMware Implementation with IBM System Storage DS5000 Sangam Racherla, Diego Silva Cogo, Mario David Ganem, Hartmut Lonzer, Minja Obradovic, Gabriel Requejo, IBM Redbooks, 2013-06-14

In this IBM Redbooks publication we compiled best practices for planning designing implementing and maintaining IBM Midrange Storage Solutions In this publication we use IBM System Storage DS5000 storage subsystem for the implementation procedures and the same procedures can be used for implementations with DCS3700 or DS3500 storage subsystems We also compiled configurations for a VMware ESX and VMware ESXi Server host environment Setting up an IBM Midrange Storage Subsystem is a challenging task Our principal objective in this book is to provide you with a sufficient overview to effectively enable storage area network SAN storage and VMware There is no single configuration that is satisfactory for every application or situation However the effectiveness of the VMware implementation is enabled by careful planning and consideration Although the compilation of this publication is derived from an actual setup and verification we did not stress test or test for all possible use cases that are used in a limited configuration assessment Because of the highly customizable nature of a VMware ESXi host environment you must consider your specific environment and equipment to achieve optimal performance from an IBM Midrange Storage Subsystem When you are weighing the recommendations in this publication you must start with the first principles of input output I O performance tuning Each environment is unique and the correct settings that are used depend on the specific goals configurations and demands for the specific environment This publication

is intended for technical professionals who want to deploy VMware ESXi and VMware ESX Servers with IBM Midrange Storage Subsystems **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 midsized 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 **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 **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

IBM SAN Volume Controller 2145-DH8 Introduction and Implementation Jon Tate, Andrew Beattie, Christian Burns, Torben Jensen, Libor Miklas, IBM Redbooks, 2015-01-22 Data is the new currency of business the most critical asset of the modern organization In fact enterprises that can gain business insights from their data are twice as likely to outperform their competitors yet 72 percent of them have not started or are only planning big data activities In addition organizations often spend too much money and time managing where their data is stored The average firm purchases 24% more storage every year but uses less than half of the capacity it already has A member of the IBM Storwize family IBM SAN Volume Controller SVC Data Platform is a storage virtualization system that enables a single point of control for storage resources to help support improved business application availability and greater resource utilization The objective is to manage storage resources in your IT infrastructure and to make sure they are used to the advantage of your business and do it quickly efficiently and in real time while avoiding increases in administrative costs Virtualizing storage with SVC Data Platform helps make new and existing storage more effective SVC Data Platform includes many functions traditionally deployed separately in disk systems By including these in a virtualization system SVC Data Platform standardizes functions across virtualized storage for greater flexibility and potentially lower costs SVC Data Platform functions benefit all virtualized storage For example IBM Easy Tier optimizes use of flash storage And IBM Real time Compression™ enhances efficiency even further by enabling the storage of up to five times as much active primary data in the same physical disk space Finally high performance thin provisioning helps automate provisioning These benefits can help extend the useful life of existing storage assets reducing costs Integrating these functions into SVC Data Platform also means that they are designed to operate smoothly together reducing management effort In this IBM Redbooks publication we discuss the latest features and functions of the SVC 2145 DH8 and software version 7.3 implementation architectural improvements and Easy Tier

IBM System Storage DS3500 Introduction and

Implementation Guide Sangam Racherla,2011 *Information Systems* Efreem G. Mallach,2015-08-18 Most information systems IS texts overwhelm business students with overly technical information they may not need in their careers This textbook takes a new approach to the required IS course for business majors For each topic covered the text highlights key Take Aways that alert students to material they will need to remember during their careers Sections titled Where You Fit In and Why This Chapter Matters explain how the topics being covered will impact students once they are on the job Review questions discussion questions and summaries are included in each chapter **IBM System Z9 109 Configuration Setup** Franck Injey,2006 **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 DS Storage Manager Copy Services Guide** Sangam Racherla,Reza Fanaei Aghdam,Hartmut Lonzer,L. G. O'Neill,Mario Rodriguez,Vaclav Sindelar,Alexander Watson,2011 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 [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 Storage™ 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 Storage DS8900F Product Guide Release 9.3.2** Jeff Cook, Peter Kimmel, Connie Riggins, IBM Redbooks, 2023-03-29 This IBM Redbooks Product Guide provides an overview of the features and functions that are available with the IBM Storage DS8900F models that run microcode Release 9 3 2 Bundle 89 32 Licensed Machine Code 7 9 32 As of February 2023 the DS8900F with DS8000 Release 9 3 2 is the latest addition The DS8900F is an all flash system exclusively and it offers three classes IBM DS8980F Analytic Class The DS8980F Analytic Class offers best performance for organizations that want to expand their workload possibilities to artificial intelligence AI Business Intelligence and Machine Learning IBM DS8950F Agility Class The agility class is efficiently designed to consolidate all your mission critical workloads for IBM zSystems IBM LinuxONE IBM Power Systems and distributed environments under a single all flash storage solution IBM DS8910F Flexibility Class The flexibility class delivers significant performance for midrange organizations that are looking to meet storage challenges with advanced functionality delivered as a single rack solution [IBM Extended Service/2](#) IBM., 1991 *IBM Spectrum Archive Enterprise Edition V1.3.0* Larry Coyne, Khanh Ngo, Illarion Borisevich, 2019 **IBM System Storage DS8000: Host Attachment and Interoperability** Axel Westphal, Bertrand Dufrasne, Juan Brandenburg, Jana Jamsek, Kai Jehnen, Steven Joseph, Massimo Olivieri, Ulrich Rendels, Mario Rodriguez, IBM Redbooks, 2013-02-14 This IBM Redbooks publication addresses host attachment and interoperability considerations for the IBM System Storage DS8000 series Within this book you can find information about the most popular host operating systems platforms including Windows

IBM AIX VIOS Linux Solaris HP UX VMware Apple and IBM z OS The topics covered in this book target administrators or other technical personnel with a working knowledge of storage systems and a general understanding of open systems You can use this book as guidance when installing attaching and configuring System Storage DS8000 The practical usage oriented guidance provided in this book complements the IBM System Storage DS8000 Host Systems Attachment Guide SC26 7917

The Definitive Guide to IBM Storage FlashSystem 5300 Port Configuration Bernd Albrecht,Hartmut Lonzer,Jon Herd,Sergei Kubin,Vasfi Gucer,IBM Redbooks,2025-07-18 IBM Storage FlashSystem 5300 is an all flash storage platform designed to empower businesses of all sizes This compact powerhouse delivers exceptional performance and scalability making it ideal for consolidating and protecting critical data This comprehensive IBM Redpaper explores the intricacies of IBM Storage FlashSystem 5300 port configuration empowering IT professionals to optimize performance enhance security and ensure seamless integration within their existing infrastructure The target audience of this paper is storage administrators system administrators and network specialists *IBM System Storage DS3000* Sangam Racherla,2009

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

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