



## 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://ibendsseriestraining.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, Delmar  
Demarchi, Scott Dybas, Bobby  
Stark, Mansoor Syed, IBM Redbooks**

## **Ibm Ds3500 Configuration 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 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

[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 SmartCloudTM 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

*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.

[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.

**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

*Introducing and Implementing IBM FlashSystem V9000* Christophe Fagiano,Detlef Helmbrecht,Jon Herd,Jeffrey Irving,Jana Jamsek,Carsten Larsen,Renato Santos,James Thompson,IBM Redbooks,2016-12-28 The success or failure of businesses often depends on how well organizations use their data assets for competitive advantage Deeper insights from data require better information technology As organizations modernize their IT infrastructure to boost innovation rather than limit it they need a data storage system that can keep pace with highly virtualized environments cloud computing mobile and social systems of engagement and in depth real time analytics Making the correct decision on storage investment is critical Organizations must have enough storage performance and agility to innovate as they need to implement cloud based IT services deploy virtual desktop infrastructure enhance fraud detection and use new analytics capabilities At the same time future storage investments must lower IT infrastructure costs while helping organizations to derive the greatest possible value from their data assets The IBM FlashSystem V9000 is the premier fully integrated Tier 1 all flash offering from IBM It has changed the economics of today's data center by eliminating storage bottlenecks Its software defined storage features simplify data management improve data security and preserve your investments in storage The IBM FlashSystem V9000 SAS expansion enclosures provide new tiering options with read intensive SSDs or nearline SAS HDDs IBM FlashSystem V9000 includes IBM FlashCore technology and advanced software defined storage available in one solution in a compact 6U form factor IBM FlashSystem V9000 improves business application availability It delivers greater resource utilization so you can get the most from your storage resources and achieve a simpler more scalable and cost efficient IT Infrastructure This IBM Redbooks publication provides information about IBM FlashSystem V9000 Software V7.7 and introduces the recently announced V7.8 It describes the product architecture software hardware and implementation and provides hints and tips It illustrates use cases and independent software vendor ISV scenarios that demonstrate real world solutions and also provides examples of the benefits gained by integrating the IBM FlashSystem storage into business environments This book offers IBM FlashSystem V9000 scalability concepts and guidelines for planning installing and configuring which can help environments scale up and out to add more flash capacity and expand virtualized systems Port utilization methodologies are provided to help you maximize the full potential of IBM FlashSystem V9000 performance and low latency in your scalable

environment This book is intended for pre sales and post sales technical support professionals storage administrators and anyone who wants to understand how to implement this exciting technology

**IBM Flex System Products and Technology for Power Systems** David Watts,Alexander Grechnev,Dave Ridley,IBM Redbooks,2014-12-10 To meet today s complex and ever changing business demands you need a solid foundation of compute storage networking and software resources This system must be simple to deploy and be able to quickly and automatically adapt to changing conditions You also need to be able to take advantage of broad expertise and proven guidelines in systems management applications hardware maintenance and more The IBM PureFlex System combines no compromise system designs along with built in expertise and integrates them into complete optimized solutions At the heart of PureFlex System is the IBM Flex System Enterprise Chassis This fully integrated infrastructure platform supports a mix of compute storage and networking resources to meet the demands of your applications The solution is easily scalable with the addition of another chassis with the required nodes With the IBM Flex System Manager multiple chassis can be monitored from a single panel The 14 node 10U chassis delivers high speed performance complete with integrated servers storage and networking This flexible chassis is simple to deploy now and to scale to meet your needs in the future This IBM Redbooks publication describes IBM PureFlex System and IBM Flex System available from IBM It highlights the technology and features of the chassis compute nodes management features and connectivity options Guidance is provided about every major component and about networking and storage connectivity This book is intended for customers IBM Business Partners and IBM employees who want to know the details about the new family of products It assumes that you have a basic understanding of blade server concepts and general IT knowledge

**Building a Smarter Data Center with IBM Flex System and Juniper Networks QFabric** Bill White,Hoi T Hon,Veerendra Para,John Welsh,IBM Redbooks,2013-05-24 Data centers must become smarter to meet today s business needs They need to be more efficient scalable and flexible and at the same time keep operational costs in check A smarter data center must seamlessly integrate IT resources such as servers storage and networking while also responding quickly to change Networking plays an essential role in enabling infrastructures for smarter data centers In dynamic environments with virtualized IT resources the network must do more than just carry traffic and support the provisioning of new IT services It must also have the built in flexibility and capability to adapt quickly while maintaining comprehensive security visibility and management IBM Flex System™ build to order BTO and Juniper Networks QFabric are key building blocks for a smarter data center infrastructure They are reliable resilient and energy efficient resources that seamlessly integrate to provide the capabilities and flexibility needed now and in the future This IBM Redpaper™ publication discusses how to build a smarter data center infrastructure with IBM Flex System BTO and Juniper Networks QFabric It discusses key client use cases that address today s data center challenges Business continuity and disaster recovery Multitenancy Virtual machine mobility This paper is intended for IT management IT architects network planners and integrators and technical

specialists **IBM System Storage DS3500 Introduction and Implementation Guide** IBM Redbooks,2011-05-20

*Information Systems* Efrem 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 Storage DS3500 Introduction and Implementation Guide** Sangam Racherla,2011

Delivering Continuity and Extreme Capacity with the IBM DB2 pureScale Feature Vlad Barshai,Yvonne Chan,Hua Lu,Satpal Sohal,IBM Redbooks,2012-09-25 The IBM DB2 pureScale feature offers clustering technology that helps deliver high availability and exceptional scalability transparent to applications The DB2 pureScale feature helps you to meet your business needs around availability and scalability and is also easy to configure and administer This IBM Redbooks publication addresses the DB2 pureScale feature that is available in IBM DB2 10 1 for Linux UNIX and Windows operating systems It can help you build skills and deploy the DB2 pureScale feature This book bundles all the information necessary for a in depth analysis into the functions of the DB2 pureScale feature including the actual hardware requirements It includes validated step by step hardware and software installation instructions In addition this book provides detailed examples about how to work effectively with a DB2 pureScale cluster and how to plan and run an upgrade for all DB2 related components to DB2 10 1 This book is intended for database administrators DBAs who use IBM DB2 10 1 for Linux UNIX and Windows operating systems who want to explore and get started with the DB2 pureScale feature **AIX 7.2, PowerVM - UNIX,**

**Virtualization and Security, An administrator's guide** Sebastian Biedroń,2020-02-28 Get to know the IBM AIX operating system The topics covered include Basics of the AIX operating system Virtualization PowerVM Virtual I O Server Installation and maintenance of the AIX operating system Management of users disks and the file system Backup and system diagnostics Performance tips Security features Operating systems from the UNIX family are known for their high reliability and performance This is why many companies use such systems to manage key application servers One of the systems that belongs to this family is AIX which has gained popularity in recent years due to its significant potential for virtualization as well as the fact that its security configuration meets the strictest security requirements Introduction to Storage Area

Networks and System Networking Mr. Rohit Manglik,2024-07-25 EduGorilla Publication is a trusted name in the education sector committed to empowering learners with high quality study materials and resources Specializing in competitive exams and academic support EduGorilla provides comprehensive and well structured content tailored to meet the needs of students across various streams and levels **Deploying PowerHA Solution with AIX HyperSwap** Octavian Lascu,Yuying

Feng,Bing He,Peter YH Lee,Bao Jun Qin,Theeraphong Thitayanun,Marian Tomescu,Xu Dong Zhang,IBM



Redbooks,2014-10-02 This IBM Redpaper™ publication will help you plan install tailor and configure the new IBM PowerHA with IBM HyperSwap clustering solution PowerHA with HyperSwap adds transparent storage protection for replicated storage improving overall system availability by masking storage failures The PowerHA cluster is an Extended Distance cluster with two sites It manages in principle the replicated storage infrastructure through HyperSwap functionality The storage is provided by two DS8800s configured to replicate each other using Metro Mirror Peer to Peer Remote Copy PPRC synchronous replication DS8800 supports in band SCSI commands communication which is used to manage and automate the replication using IBM AIX HyperSwap framework and PowerHA automation and management capabilities **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 Extended Service/2** IBM.,1991

## Unveiling the Power of Verbal Artistry: An Emotional Sojourn through **Ibm Ds3500 Configuration Guide**

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subject include an appropriate subject line like application for a character certificate or requesting character certificate introduction this is the first paragraph of your letter or email ideally the first paragraph should be used for the introduction and stating the

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step 1 use a formal tone the tone of the character certificate should be formal and professional use appropriate language and

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