

Ibm Switch Configuration Guide

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IBM System Storage DS3500 Introduction and Implementation Guide IBM Redbooks
The IBM® Hardware Management Console (HMC) provides to systems administrators a tool for planning, deploying, and managing IBM Power Systems™ servers. This IBM Redbooks® publication is an extension of IBM Power Systems HMC Implementation and Usage Guide, SG24-7491 and also merges updated information from IBM Power Systems Hardware Management Console: Version 8 Release 8.1.0 Enhancements, SG24-8232. It explains the new features of IBM Power Systems Hardware Management Console Version V8.8.1.0 through V8.8.4.0. The major functions that the HMC provides are Power Systems server hardware management and virtualization (partition) management. Further information about virtualization management is in the following publications: IBM PowerVM Virtualization Managing and Monitoring, SG24-7590 IBM PowerVM Virtualization Introduction and Configuration, SG24-7940 IBM PowerVM Enhancements What is New in 2013, SG24-8198 IBM Power Systems SR-IOV: Technical Overview and Introduction, REDP-5065 The following features of HMC V8.8.1.0 through HMC V8.8.4.0 are described in this book: HMC V8.8.1.0 enhancements HMC V8.8.4.0 enhancements System and Partition Templates HMC and IBM PowerVM® Simplification Enhancement Manage Partition Enhancement Performance and Capacity Monitoring HMC V8.8.4.0 upgrade changes [System z End-to-End Extended Distance Guide](#) IBM Redbooks "Do everything that is necessary and absolutely nothing that is not." In this IBM® Redbooks® publication, which is an update and major revision of the previous version, we have consolidated as much of the critical information as possible while discussing procedures and tasks that are likely to be encountered on a daily basis. Each of the products described has much more functionality than we could cover in just one book. The IBM SAN portfolio is rich in quality products that bring a vast amount of technicality and vitality to the SAN world. Their inclusion and selection is based on a thorough understanding of the storage networking environment that positions IBM, and therefore its customers and partners, in an ideal position to take advantage by their deployment. We discuss the latest additions to the IBM/Cisco SAN family and we show how they can be implemented in an open systems environment, focusing on the Fibre Channel protocol (FCP) environment. We address some of the key concepts that they bring to the market, and in each case, we give an overview of those functions that are essential to building a robust SAN environment.

[IBM DS8880 Architecture and Implementation \(Release 8.51\)](#) IBM Redbooks

The IBM® b-type Gen 5 Fibre Channel directors and switches provide reliable, scalable, and secure high-performance foundations for high-density server virtualization, cloud architectures, and next generation flash and SSD storage. They are designed to meet the demands of highly virtualized private cloud storage and data center environments. This IBM Redbooks® publication helps administrators learn how to implement or migrate to an IBM Gen 5 b-type SAN. It provides an overview of the key hardware and software products and explains how to install, monitor, tune, and troubleshoot your storage area network (SAN). Read this publication to learn about fabric design, managing and monitoring your network, key tools such as IBM Network Advisor and Fabric Vision, and troubleshooting.

[Implementing the Storwize V7000 and the IBM System Storage SAN32B-E4 Encryption](#)

Switch IBM Redbooks

This IBM® Redbooks® publication represents a compilation of best practices for deploying and configuring IBM Midrange System Storage™ 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 (HACMP™) and General Parallel File System (GPFS™). 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).

IBM SAN Survival Guide IBM Redbooks

Authored by CCIEs in collaboration with CCIE Program Managers. In-depth coverage of routing protocols provides both great practical knowledge and exam preparation. In-depth study and exercises for the CCIE Routing and Switching Lab Exam. CCIE Practical Studies, Volume I focuses on the 1-day lab portion of the exam, largely regarded as the most difficult portion of the CCIE testing process. This book includes in-depth coverage for more than 37 lab scenarios, as well as information on how to design and implement basic to complex networks. Five CCIE simulation labs will test your knowledge and ability to perform in a timed environment. CCIE Practical Studies IBM Redbooks

Updated for R8.51 This IBM® Redbooks® publication describes the concepts, architecture, and implementation of the IBM DS8880 family. The book provides reference information to assist readers who need to plan for, install, and configure the DS8880 systems. The IBM DS8000® family is a high-performance, high-capacity, highly secure, and resilient series of disk storage systems. The DS8880 family is the latest and most advanced of the DS8000 offerings to date. The high availability, multiplatform support, including IBM Z, and simplified management tools help provide a cost-effective path to an on-demand and cloud-based infrastructures. The IBM DS8880 family now offers business-critical, all-flash, and hybrid data systems that span a wide range of price points: DS8882F: Rack Mounted storage system DS8884: Business Class DS8886: Enterprise Class DS8888: Analytics Class The DS8884 and DS8886 are available as either hybrid models, or can be configured as all-flash. Each model represents the most recent in this series of high-performance, high-capacity, flexible, and resilient storage systems. These systems are intended to address the needs of the most demanding clients. Two powerful IBM POWER8® processor-based servers manage the cache to streamline disk I/O, maximizing performance and throughput. These capabilities are further enhanced with the availability of the second generation of high-performance flash enclosures (HPFEs Gen-2) and newer flash drives. Like its predecessors, the DS8880 supports advanced disaster recovery (DR) solutions, business continuity solutions, and thin provisioning. All disk drives in the DS8880 storage system include the Full Disk Encryption (FDE) feature. The DS8880 can automatically optimize the use of each storage tier, particularly flash drives, by using the IBM Easy Tier® feature. Release 8.5 introduces the Safeguarded Copy feature. The DS8882F Rack Mounted is described in a separate publication, Introducing the IBM DS8882F Rack Mounted Storage System, REDP-5505. Hearing Before a Subcommittee of the Committee on Government Operations, House of Representatives, Ninety-eighth Congress, Second Session IBM Redbooks

In today's infrastructure, it is common to build networks based on 10 Gb Ethernet technology. The IBM® portfolio of 10 Gb systems networking products includes Top-of-Rack switches, and the embedded switches in the IBM BladeCenter® family. In 2010, IBM formed the IBM System Networking business (by acquiring BLADE Network Technologies), which is now focused on driving data center networking by using the latest Ethernet technologies. The main focus of this IBM Redbooks® publication is on the IBM System Networking 10Gb Switch Modules, which include both embedded and Top-of-Rack (TOR) models. After reading this book, you can perform basic to advanced configurations of IBM System Networking 10Gb Switch Modules. In this publication, we introduce the various 10 Gb

switch models that are available today and then describe in detail the features that are applicable to these switches. We then present two architectures that use these 10 Gb switches, which are used throughout this book. These designs are based on preferred practices and the experience of authors of this book. Our intention is to show the configuration of the different features that are available with IBM System Networking 10Gb Switch Modules. We follow the three-tier Data Center design, focusing on the Access and Aggregation Layers, because those layers are the layers that IBM System Networking Switches use. OSA-Express Implementation Guide IBM Redbooks

This IBM® Redbooks® document introduces the IBM Converged Switch B32. This switch supports Fibre Channel over Ethernet (FCoE), Fibre Channel, Converged Enhanced Ethernet (CEE), and traditional Ethernet protocol connectivity for servers and storage. FCoE is a new protocol that can expand Fibre Channel into the Ethernet environment, and it helps to combine and leverage the advantages of two technologies, Fibre Channel protocol and Ethernet. Features of the IBM Converged Switch B32 include: A 32-port multiprotocol switch for server I/O consolidation Enterprise-class availability for business continuance Improved return on investment and investment protection Fabric security for mission-critical information In the related publication An Introduction to Fibre Channel over Ethernet, and Fibre Channel over Convergence Enhanced Ethernet, REDP-4493 we introduce FCoE and CEE concepts.

IBM Virtual Disk System Quickstart Guide IBM Redbooks

This IBM® Redbooks® publication helps you install, configure, and maintain the IBM z15™ (machine types 8561 and 8562) systems. The z15 systems offers new functions that require a comprehensive understanding of the available configuration options. This book presents configuration setup scenarios, and describes implementation examples in detail. This publication is intended for systems engineers, hardware planners, and anyone who needs to understand IBM Z® configuration and implementation. Readers should be familiar with IBM Z technology and terminology. For more information about the functions of the z15 systems, see IBM z15 Technical Introduction, SG24-8850, IBM z15 (8561) Technical Guide, SG24-8851 and IBM z15 (8562) Technical Guide, SG24-8852.

IBM z15 Configuration Setup IBM Redbooks

This IBM® Redpaper™ publication helps network and storage administrators understand how to implement the IBM SAN42B-R Extension Switch and the IBM b-type Gen 6 Extension Blade for distance replication. It provides an overview of the IBM System Storage® SAN42B-R extension switch hardware and software features, describes the extension architecture, shows example implementations, and explains how to troubleshoot your extension products. IBM b-type extension products provide long-distance replication of your data for business continuity by using disaster recovery (BC/DR). This paper provides an overview of extension, detailed information about IBM b-type extension technologies and products, preferred topologies, example implementations with FCIP and TS7760/7700 Grid IP Extension, monitoring, and troubleshooting.

IBM System Storage DS8700 Architecture and Implementation IBM Redbooks

This IBM® Redbooks® publication describes the concepts, architecture, and implementation of the IBM System Storage® DS8700 storage subsystem. This book has reference information that will help you plan for, install, and configure the DS8700 and also discusses the architecture and components. The DS8700 is the most advanced model in the IBM System Storage DS8000® series. It includes IBM POWER6®-based controllers, with a dual 2-way or dual 4-way processor complex implementation. Its extended connectivity, with up to 128 Fibre Channel/FICON® ports for host connections, make it suitable for multiple server environments in both open systems and IBM System z® environments. If desired, the DS8700 can be integrated in an LDAP infrastructure. The DS8700 supports thin provisioning. Depending on your specific needs, the DS8700 storage subsystem can be equipped with SATA drives, FC drives, and Solid® State Drives (SSDs). The DS8700 can now automatically optimize the use of SSD through its no charge Easy Tier feature. The DS8700 also supports Full Disk Encryption (FDE) feature. Its switched Fibre Channel architecture, dual processor complex implementation, high availability design, and the advanced Point-in-Time Copy and Remote Mirror and Copy functions that incorporates make the DS8700 storage subsystem suitable for mission-critical business functions.

IBM System Storage N series with VMware vSphere 5 IBM Redbooks

The next-generation IBM® c-type Directors and switches for IBM Storage Networking provides high-speed Fibre Channel (FC) and IBM Fibre Connection (IBM FICON®) connectivity from the IBM Z® platform to the storage area network (SAN) core. It enables enterprises to rapidly deploy high-density virtualized servers with the dual benefit of higher bandwidth and consolidation. This IBM Redpaper Redbooks publication helps

administrators understand how to implement or migrate to an IBM c-type SAN environment. It provides an overview of the key hardware and software products, and it explains how to install, configure, monitor, tune, and troubleshoot your SAN environment.

IBM Redbooks

InfoWorld is targeted to Senior IT professionals. Content is segmented into Channels and Topic Centers. InfoWorld also celebrates people, companies, and projects.

[SAN Boot Implementation and Best Practices Guide for IBM System Storage](#) IBM Redbooks

VersaStack, an IBM® and Cisco integrated infrastructure solution, combines computing, networking, and storage into a single integrated system. It combines the Cisco Unified Computing System (Cisco UCS) Integrated Infrastructure with IBM Spectrum Virtualize™, which includes IBM FlashSystem® storage offerings, for quick deployment and rapid time to value for the implementation of modern infrastructures. This IBM Redbooks® publication covers the preferred practices for implementing a VersaStack Solution with IBM FlashSystem 5030, Cisco UCS Mini, Hyper-V 2016, and Microsoft SQL Server. Cisco UCS Mini is optimized for branch and remote offices, point-of-sale locations, and smaller IT environments. It is the ideal solution for customers who need fewer servers but still want the comprehensive management capabilities provided by Cisco UCS Manager. The IBM FlashSystem 5030 delivers efficient, entry-level configurations that are designed to meet the needs of small and midsize businesses. Designed to provide organizations with the ability to consolidate and share data at an affordable price, the IBM FlashSystem 5030 offers advanced software capabilities such as clustering, IBM Easy Tier®, replication and snapshots that are found in more expensive systems. This book is intended for pre-sales and post-sales technical support professionals and storage administrators who are tasked with deploying a VersaStack solution with Hyper-V 2016 and Microsoft SQL Server.

[Implementing a VersaStack Solution by Cisco and IBM with IBM FlashSystem 5030, Cisco UCS Mini, Hyper-V, and SQL Server](#) IBM Redbooks

This IBM® Redbooks® publication helps you with the planning, installation, and configuration of the new IBM Spectrum® Archive Enterprise Edition (EE) Version 1.3.2.2 for the IBM TS4500, IBM TS3500, IBM TS4300, and IBM TS3310 tape libraries. IBM Spectrum Archive Enterprise Edition enables the use of the LTFS for the policy management of tape as a storage tier in an IBM Spectrum Scale based environment. It also helps encourage the use of tape as a critical tier in the storage environment. This edition of this publication is the tenth edition of IBM Spectrum Archive Installation and Configuration Guide. IBM Spectrum Archive EE can run any application that is designed for disk files on a physical tape media. IBM Spectrum Archive EE supports the IBM Linear Tape-Open (LTO) Ultrium 9, 8, 7, 6, and 5 tape drives. and the IBM TS1160, TS1155, TS1150, and TS1140 tape drives. IBM Spectrum Archive EE can play a major role in reducing the cost of storage for data that does not need the access performance of primary disk. The use of IBM Spectrum Archive EE to replace disks with physical tape in tier 2 and tier 3 storage can improve data access over other storage solutions because it improves efficiency and streamlines management for files on tape. IBM Spectrum Archive EE simplifies the use of tape by making it transparent to the user and manageable by the administrator under a single infrastructure. This publication is intended for anyone who wants to understand more about IBM Spectrum Archive EE planning and implementation. This book is suitable for IBM customers, IBM Business Partners, IBM specialist sales representatives, and technical specialists.

[SAN and Fabric Resiliency Best Practices for IBM b-type Products](#) IBM Redbooks

As we all know, large ocean going ships never collide with icebergs. However, occasionally life deals out some unexpected pleasures for us to cope with. Surviving any disaster in life is usually a lot easier if you have prepared adequately by taking into account the likely problems, solutions, and their implementation. In this IBM Redbooks publication, we limit ourselves to those situations in which it is likely that a SAN will be deployed. We present the IBM SAN portfolio of products, going a little under the surface to show the fault tolerant features that they utilize, and then describe solutions with all these features taken into account. Each of these solutions was built on practical experience, in some cases with cost in mind, in some cases with no cost in mind. Any well-thought-out SAN design will have taken every single one of these concerns into account, and either formulated a solution for it, or ignored it, but nonetheless understanding the potential exposure. With these points in mind, in this book we have two objectives: to position the IBM SAN products that are currently in our portfolio; and to show how those products can be configured together to build a SAN that not only allows you to survive most forms of disaster, but also provides performance benefits. So, make sure that you know what to do if you hit an iceberg!

[Implementing or Migrating to an IBM Gen 5 b-type SAN](#) IBM Redbooks

The IBM® Distributed Virtual Switch 5000V (DVS 5000V) is a software-based network switching solution that is designed for use with the virtualized network resources in a VMware enhanced data center. It works with VMware vSphere and ESXi 5.0 and beyond to provide an IBM Networking OS management plane and advanced Layer 2 features in the control and data

planes. It provides a large-scale, secure, and dynamic integrated virtual and physical environment for efficient virtual machine (VM) networking that is aware of server virtualization events, such as VMotion and Distributed Resource Scheduler (DRS). The DVS 5000V interoperates with any 802.1Qbg compliant physical switch to enable switching of local VM traffic in the hypervisor or in the upstream physical switch. Network administrators who are familiar with IBM System Networking switches can manage the DVS 5000V just like IBM physical switches by using advanced networking, troubleshooting, and management features to make the virtual switch more visible and easier to manage. This IBM Redbooks® publication helps the network and system administrator install, tailor, and quickly configure the IBM Distributed Virtual Switch 5000V (DVS 5000V) for a new or existing virtualization computing environment. It provides several practical applications of the numerous features of the DVS 5000V, including a step-by-step guide to deploying, configuring, maintaining, and troubleshooting the device. Administrators who are already familiar with the CLI interface of IBM System Networking switches will be comfortable with the DVS 5000V. Regardless of whether the reader has previous experience with IBM System Networking, this publication is designed to help you get the DVS 5000V functional quickly, and provide a conceptual explanation of how the DVS 5000V works in tandem with VMware.

IBM Spectrum Archive Enterprise Edition V1.3.2.2: Installation and Configuration Guide IBM Redbooks 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.

[IBM Midrange System Storage Implementation and Best Practices Guide](#) IBM Redbooks

This IBM® Redbooks® publication will help you to install, tailor, and configure the Open Systems Adapter (OSA) features that are available on IBM zEnterprise® servers. It focuses on the hardware installation and the software definitions that are necessary to provide connectivity to LAN environments. This information will help you with planning and system setup. This book also includes helpful utilities and commands for monitoring and managing the OSA features. This information will be helpful to systems engineers, network administrators, and system programmers who plan for and install OSA features. The reader is expected to have a good understanding of IBM System z® hardware, Hardware Configuration Definition (HCD) or the input/output configuration program (IOCP), Open Systems Adapter Support Facility (OSA/SF), Systems Network Architecture/Advanced Peer-to-Peer Networking (SNA/APPN), and TCP/IP protocol.

[Server Time Protocol Planning Guide](#) IBM Redbooks

As organizations drive to transform and virtualize their IT infrastructures to reduce costs, and manage risk, networking is pivotal to success. Optimizing network performance, availability, adaptability, security, and cost is essential to achieving the maximum benefit from your infrastructure. In this IBM® Redbooks® publication, we address the requirements: Expertise to plan and design networks with holistic consideration of servers, storage, application performance and manageability Networking solutions that enable investment protection with performance and cost options that match your environment Technology and expertise to design and implement and manage network security and resiliency Robust network management software for integrated, simplified management that lowers operating costs of complex networks IBM and Brocade have entered into an agreement to provide expanded network technology choices with the new IBM b-type Ethernet Switches and Routers, to provide an integrated end-to-end resiliency and security framework. Combined with the IBM vast data center design experience and the Brocade networking expertise, this portfolio represents the ideal convergence of strength and intelligence. For organizations striving to transform and virtualize their IT infrastructure, such a combination can help you reduce costs, manage risks, and prepare for the future. This book is meant to be used along with "IBM b-type Data Center Networking: Design and Best Practices Introduction," SG24-7786.