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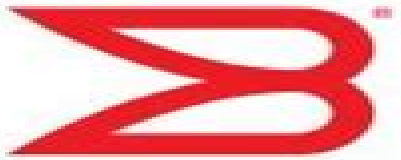
15 December 2011



Fabric OS

Administrator's Guide

Supporting Fabric OS v7.0.1

BROCADE

Fabric Os Administrator Guide

Stefan Eilemann

Fabric Os Administrator Guide:

Implementing or Migrating to an IBM Gen 5 b-type SAN Mirza Baig,Liam Dowds,Silviano Gaona,Paulo Neto,Gaston Rius,Megan Gilge,IBM Redbooks,2016-08-05 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** Jon Tate,Stefan Neff,Glen Routley,Denis Senin,IBM Redbooks,2012-02-15 In this IBM Redbooks publication we describe how these products can be combined to provide an encryption and virtualization solution IBM System Storage SAN32B E4 Encryption Switch IBM Storwize V7000 IBM Tivoli Key Lifecycle Manager We describe the terminology that is used in an encrypted and virtualized environment and we show how to implement these products to take advantage of their strengths This book is intended for anyone who needs to understand and implement the IBM System Storage SAN32B E4 Encryption Switch IBM Storwize V7000 IBM Tivoli Key Lifecycle Manager and encryption **IBM SAN Solution Design Best Practices for VMware vSphere ESXi** Jon Tate,Richard Kelley,Scheila Rossana Rinaldo Maliska,Leandro Torolho,Michael Voigt,IBM Redbooks,2013-09-16 In this IBM Redbooks publication we describe recommendations based on an IBM b type storage area network SAN environment that is utilizing VMware vSphere ESXi We describe the hardware and software and the unique features that they bring to the marketplace We then highlight those features and how they apply to the SAN environment and the best practices for ensuring that you get the best out of your SAN For background reading we recommend the following Redbooks publications Introduction to Storage Area Networks and System Networking SG24 5470 IBM System Storage SAN Volume Controller Best Practices and Performance Guidelines SG24 7521 IBM System Storage SAN Volume Controller and Storwize V7000 Replication Family Services SG24 7574 Implementing the IBM System Storage SAN Volume Controller V6 3 SG24 7933 IBM SAN Volume Controller Stretched Cluster with PowerVM and PowerHA SG24 8142 Implementing the IBM SAN Volume Controller and FlashSystem 820 SG24 8172 IBM System Storage DS8000 Copy Services for Open Systems SG24 6788 IBM System Storage DS8000 Host Attachment and Interoperability SG24 8887 This book is aimed at pre and post sales support system administrators and storage administrators **Implementing an IBM b-type SAN with 8 Gbps Directors and Switches** Jon Tate,Uwe Dubberke,Michael Engelbrecht,Shanmuganthan Kumaravel,Jose Rodriguez Ruibal,IBM Redbooks,2011-04-01 Do everything that is necessary and absolutely nothing that is not This IBM Redbooks publication

written at a Data Center Fabric Manager v10 1 4 and Fabric Operating System v6 4 level consolidates critical information while also covering procedures and tasks that you are likely to encounter on a daily basis when implementing an IBM b type SAN The products that we describe in this book have more functionality than we can possibly cover in a single book A storage area network SAN is a powerful infrastructure for consolidation distance solutions and data sharing The quality applications that the IBM SAN portfolio provides can help you take full advantage of the benefits of the SAN In this book we cover the latest additions to the IBM b type SAN family and show how you can implement them in an open systems environment In particular we focus on the Fibre Channel Protocol FCP environment We address the key concepts that these products bring to the market and in each case we provide an overview of the functions that are essential to building a robust SAN environment *SAN and Fabric Resiliency Best Practices for IBM b-type Products* Ian MacQuarrie,Jim Blue,David Lutz,David Green,Gavin O'Reilly,IBM Redbooks,2022-01-05 This IBM Redpaper publication describes best practices for deploying and using advanced Broadcom Fabric Operating System FOS features to identify monitor and protect Fibre Channel FC SANs from problematic devices and media behavior Note that this paper primarily focuses on the FOS command options and features that are available since version 8 2 with some coverage of new features that were introduced in 9 0 This paper covers the following recent changes SANnav Fabric Performance Impact Notification **Implementing the IBM System Storage SAN32B-E4 Encryption Switch** Jon Tate,Uwe Dubberke,Michael Engelbrecht,IBM Redbooks,2011-03-07 This IBM Redbooks publication covers the IBM System Storage SAN32B E4 Encryption Switch which is a high performance stand alone device designed to protect data at rest in mission critical environments In addition to helping IT organizations achieve compliance with regulatory mandates and meeting industry standards for data confidentiality the SAN32B E4 Encryption Switch also protects them against potential litigation and liability following a reported breach Data is one of the most highly valued resources in a competitive business environment Protecting that data controlling access to it and verifying its authenticity while maintaining its availability are priorities in our security conscious world Increasing regulatory requirements also drive the need for adequate data security Encryption is a powerful and widely used technology that helps protect data from loss and inadvertent or deliberate compromise In the context of data center fabric security IBM provides advanced encryption services for Storage Area Networks SANs with the IBM System Storage SAN32B E4 Encryption Switch The switch is a high speed highly reliable hardware device that delivers fabric based encryption services to protect data assets either selectively or on a comprehensive basis The 8 Gbps SAN32B E4 Fibre Channel Encryption Switch scales nondisruptively providing from 48 up to 96 Gbps of encryption processing power to meet the needs of the most demanding environments with flexible on demand performance It also provides compression services at speeds up to 48 Gbps for tape storage systems Moreover it is tightly integrated with one of the industry leading enterprise class key management systems the IBM Tivoli Key Lifecycle Manager TKLM which can scale to support key life cycle services across distributed

environments SAN Multiprotocol Routing: An Introduction and Implementation Jon Tate,Steve Fodor,Jure Arzensek,IBM Redbooks,2006-11-09 This IBM Redbooks publication supersedes both IBM TotalStorage Introduction to SAN Routing SG24 7119 00 Implementing the IBM TotalStorage Multiprotocol Routers SG24 7246 00 The rapid spread and adoption of production storage area networks SANs has fuelled the need for multiprotocol routers The routers provide improved scalability security and manageability by enabling devices in separate SAN fabrics to communicate without merging fabrics into a single large SAN fabric This capability enables clients to initially deploy separate SAN solutions at the departmental and data center levels Then clients can consolidate these separate solutions into large enterprise SAN solutions as their experience and requirements grow and change Alternatively multiprotocol routers can help to connect existing enterprise SANs for a variety of reasons For instance the introduction of Small Computer System Interface over IP iSCSI provides for the connection of low end low cost hosts to enterprise SANs The use of an Internet Protocol IP in the Fibre Channel FC environment provides for resource consolidation and disaster recovery planning over long distances And the use of FC FC routing services provides connectivity between two or more fabrics without having to merge them into a single SAN This book targets storage network administrators system designers architects and IT professionals who sell design or administer SANs It introduces you to the products concepts and technology in the IBM System Storage SAN Routing portfolio This book shows the features of each product and examples of how you can deploy and use them **IBM FlashSystem and VMware Implementation and Best Practices Guide** Vasfi Gucer,Duane Bolland,Nezih Boyacioglu,Jordan Fincher,David Green,Warren Hawkins,Ibrahim Alade Rufai,Leandro Torolho,IBM Redbooks,2022-10-26 This IBM Redbooks publication details the configuration and best practices for using the IBM FlashSystem family of storage products within a VMware environment The first version of this book was published in 2021 and specifically addressed IBM Spectrum Virtualize Version 8 4 with VMware vSphere 7 0 This second version of this book includes all the enhancements that are available with IBM Spectrum Virtualize 8 5 Topics illustrate planning configuring operations and preferred practices that include integration of IBM FlashSystem storage systems with the VMware vCloud suite of applications VMware vSphere Web Client vWC vSphere Storage APIs Storage Awareness VASA vSphere Storage APIs Array Integration VAAI VMware Site Recovery Manager SRM VMware vSphere Metro Storage Cluster vMSC Embedded VASA Provider for VMware vSphere Virtual Volumes vVols This book is intended for presales consulting engineers sales engineers and IBM clients who want to deploy IBM FlashSystem storage systems in virtualized data centers that are based on VMware vSphere **IBM b-type Gen 5 16 Gbps Switches and Network Advisor** Jon Tate,Kameswara Bhaskarabhatla,Bruno Garcia Galle,Paulo Neto,IBM Redbooks,2014-05-09 IBM System Storage Gen 5 fabric backbones are among the industry s most powerful Fibre Channel switching infrastructure offerings They provide reliable scalable and high performance foundations for mission critical storage These fabric backbones also deliver enterprise connectivity options to add support for IBM FICON connectivity offering a high performing

and reliable FICON infrastructure with fast and scalable IBM System z servers Designed to increase business agility while providing nonstop access to information and reducing infrastructure and administrative costs Gen 5 Fibre Channel fabric backbones deliver a new level of scalability and advanced capabilities to this robust reliable and high performance technology Although every network type has unique management requirements most organizations face similar challenges managing their network environments These challenges can include minimizing network downtime reducing operational expenses managing application service level agreements SLAs and providing robust security Until now no single tool could address these needs across different network types To address this issue the IBM Network Advisor management tool provides comprehensive management for data storage and converged networks This single application can deliver end to end visibility and insight across different network types by integrating with Fabric Vision technology it supports Fibre Channel SANs including Gen 5 Fibre Channel platforms IBM FICON and IBM b type SAN FCoE networks In addition this tool supports comprehensive lifecycle management capabilities across different networks through a simple seamless user experience This IBM Redbooks publication introduces the concepts architecture and basic implementation of Gen 5 and IBM Network Advisor It is aimed at system administrators and pre and post sales support staff IBM SAN Survival Guide Jon Tate,Brian Cartwright,John Cronin,Christian Dapprich,IBM Redbooks,2015-08-05 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 *IBM System Storage SAN Volume Controller and Storwize V7000 Replication Family Services* Jon Tate,Rafael Vilela Dias,Ivaylo Dikanarov,Jim Kelly,Peter Mescher,IBM Redbooks,2017-02-16 This IBM Redbooks publication describes the new features that have been added with the release of the IBM System Storage SAN Volume Controller SVC and IBM System Storage Storwize V7000 6 4 0 code including Replication Family Services Replication Family Services refers to the various copy services available on the SVC and Storwize V7000 including IBM FlashCopy Metro Mirror and Global Mirror Global Mirror with Change Volumes Volume Mirroring and Stretched Cluster

Volume Mirroring The details behind the theory and practice of these services are examined and SAN design suggestions and troubleshooting tips are provided Planning requirements automating copy services processed and fabric design are explained Multiple examples including implementation and server integration are included along with a discussion of software solutions and services that are based on Replication Family Services This book is intended for use by pre sales and post sales support and storage administrators Readers are expected to have an advanced knowledge of the SVC Storwize V7000 and the SAN environment The following publications are useful resources that provide background information Implementing the IBM System Storage SAN Volume Controller V6 3 SG24 7933 Implementing the IBM Storwize V7000 V6 3 SG24 7938 IBM SAN Volume Controller and Brocade Disaster Recovery Solutions for VMware REDP 4626 IBM System Storage SAN Volume Controller Upgrade Path from Version 4 3 1 to 6 1 REDP 4716 Real time Compression in SAN Volume Controller and Storwize V7000 REDP 4859 SAN Volume Controller Best Practices and Performance Guidelines SG24 7521 Implementing the Storwize V7000 and the IBM System Storage SAN32B E4 Encryption Switch SG24 7977 IBM SANnav Management Portal v2.2.X Implementation Guide Vasfi Gucer,Kai Jehnen,Piotr Kurkowski,Hartmut Lonzer,Dirk Preinl,Thomas Scheld,Simeon Tsonev,IBM Redbooks,2023-01-05 IBM SANnav Management Portal and IBM SANnav Global View empower IT administrators to be more efficient and productive by providing comprehensive visibility into the SAN environment These tools transform information about SAN behavior and performance into actionable insights allowing administrators to quickly identify isolate and correct problems before they impact the business In addition SANnav Management Portal and SANnav Global View accelerate administrative tasks by simplifying workflows and automating redundant steps making it easier for organizations to realize their goal of an autonomous SAN This IBM Redbooks publication introduces IBM SANnav Management Portal and SANnav Global View and covers the installation customization operation and troubleshooting of the IBM SANnav Management Portal This book is targeted at IT and network administrators *Fabric Resiliency and Best Practices for IBM c-type Products* David Green,David Lutz,Lyle Ramsey,Bhavin Yadav,IBM Redbooks,2021-10-01 This IBM Redpaper publication describes best practices for deploying and using advanced Cisco NX OS features to identify monitor and protect Fibre Channel FC Storage Area Networks SANs from problematic devices and media behavior The paper focuses on the IBM c type SAN switches with firmware Cisco MDS NX OS Release 8 4 2a Equalizer Programming and User Guide Stefan Eilemann,2013-07-26 The official reference for developing and deploying parallel scalable OpenGL applications based on the Equalizer parallel rendering framework *Enterprise Mac Administrators Guide* Charles Edge,Zack Smith,Beau Hunter,Roderick Smith,2010-05-10 Charles Edge Zack Smith and Beau Hunter provide detailed explanations of the technology required for large scale Mac OS X deployments and show you how to integrate it with other operating systems and applications Enterprise Mac Administrator s Guide addresses the growing size and spread of Mac OS X deployments in corporations and institutions worldwide In some cases this is due to the growth of traditional Mac environments but for the

most part it has to do with switcher campaigns where Windows and or Linux environments are migrating to Mac OS X However there is a steep culture shock with these types of migrations The products that are used are different the nomenclature is different and most importantly the best practices for dealing with the operating system are different Apple provides a number of tools to help automate and guide IT toward managing a large number of Mac OS X computers it has since before Mac OS X was initially released However if you want to put together all of the pieces to tell a compelling story about how to run an IT department or a deployment of Macs you need to compile information from a number of different sources This book will provide explanations of the technology required Provides complete solutions for the large and medium scale integration of directory services imaging and security Complete guide for integrating Macs and Mac OS X into mixed environments with confidence and no down time One stop volume for IT professionals who need the technical details to get their job done as efficiently and effectively as possible **IBM Spectrum Virtualize and SAN Volume Controller Enhanced Stretched Cluster with VMware** Jon Tate,Angelo Bernasconi,Antonio Rainero,Ole Rasmussen,IBM Redbooks,2016-12-19 This IBM Redbooks publication describes the IBM storage area network SAN and IBM SpectrumTM Virtualize and SAN Volume Controller Enhanced Stretched Cluster configuration when combined with VMware It describe guidelines settings and implementation steps necessary to achieve a satisfactory implementation Business continuity and continuous availability of applications are among the top requirements for many organizations today Advances in virtualization storage and networking make enhanced business continuity possible Information technology solutions can now be designed to manage both planned and unplanned outages and to take advantage of the flexibility efficient use of resources and cost savings that cloud computing offers The IBM Enhanced Stretched Cluster design offers significant functions for maintaining business continuity in a VMware environment You can dynamically move applications across data centers without interruption to those applications The live application mobility across data centers relies on these products and technologies IBM Spectrum Virtualize and SAN Volume Controller Enhanced Stretched Cluster Solution VMware Metro vMotion for live migration of virtual machines A Layer 2 IP Network and storage networking infrastructure for high performance traffic management Data center interconnection *IBM SAN and SVC Stretched Cluster and VMware Solution Implementation* Jon Tate,Angelo Bernasconi,Torben Jensen,Ian MacQuarrie,Ole Rasmussen,Matthew Robinson,Steven Tong,IBM Redbooks,2013-07-28 This IBM Redbooks publication describes the IBM Storage Area Network and IBM SAN Volume Controller Stretched Cluster solution when combined with VMware We describe guidelines settings and implementation steps necessary to achieve a satisfactory implementation Business continuity and continuous application availability are among the top requirements for many organizations today Advances in virtualization storage and networking have made enhanced business continuity possible Information technology solutions can now be designed to manage both planned and unplanned outages and the flexibility and cost efficiencies available from cloud computing models IBM has

designed a solution that offers significant functionality for maintaining business continuity in a VMware environment This functionality provides the capability to dynamically move applications across data centers without interruption to those applications The live application mobility across data centers relies on these products and technology The industry proven VMware Metro vMotion IBM System Storage SAN Volume Controller Stretched Cluster solution A Layer 2 IP Network and storage networking infrastructure for high performance traffic management DC interconnect FPGAs Juan Jose Rodriguez Andina,Eduardo de la Torre Arnanz,Maria Dolores Valdes,2017-07-28 Field Programmable Gate Arrays FPGAs are currently recognized as the most suitable platform for the implementation of complex digital systems targeting an increasing number of industrial electronics applications They cover a huge variety of application areas such as aerospace food industry art industrial automation automotive biomedicine process control military logistics power electronics chemistry sensor networks robotics ultrasound security and artificial vision This book first presents the basic architectures of the devices to familiarize the reader with the fundamentals of FPGAs before identifying and discussing new resources that extend the ability of the devices to solve problems in new application domains Design methodologies are discussed and application examples are included for some of these domains e g mechatronics robotics and power systems **CCNA Data Center DCICT 200-155 Official Cert Guide** Navaid Shamsee,David Klebanov,Hesham Fayed,Ahmed Afrose,Ozden Karakok,2017-02-09 CCNA Data Center DCICT 200 155 Official Cert Guide from Cisco Press enables you to succeed on the exam the first time and is the only self study resource approved by Cisco A team of leading Cisco data center experts shares preparation hints and test taking tips helping you identify areas of weakness and improve both your conceptual knowledge and hands on skills This is the eBook edition of the CCNA Data Center DCICT 200 155 Official Cert Guide This eBook does not include the access code for the practice exam that comes with the print edition This complete official study package includes A test preparation routine proven to help you pass the exam Do I Know This Already quizzes which enable you to decide how much time you need to spend on each section Part ending exercises which help you drill on key concepts you must know thoroughly Study plan suggestions and templates to help you organize and optimize your study time A final preparation chapter that guides you through tools and resources to help you craft your review and test taking strategies Well regarded for its level of detail study plans assessment features and challenging review questions and exercises this official study guide helps you master the concepts and techniques that ensure your exam success The official study guide helps you master topics on the CCNA Data Center DCICT 200 155 exam *Certification Guide Series: Tivoli Storage Productivity Center V4.1* Mary Lovelace,Paolo D'Angelo,Markus Standau,IBM Redbooks,2010-01-30 This IBM Redbooks publication is a study guide for IBM Tivoli Storage Productivity Center Version 4 1 It is targeted for professionals who want to obtain certification as an IBM Certified Deployment Professional Tivoli Storage Productivity Center V4 1 This Certification offered through the Professional Certification Program from IBM is designed to validate the skills required of technical professionals who perform installation

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