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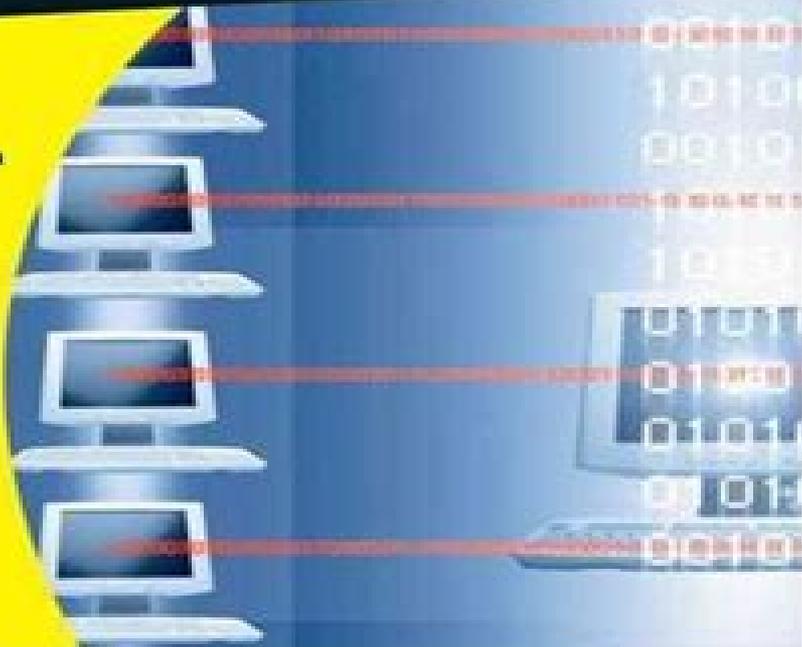
FOR

# DUMMIES

## Learn to:

- Implement new technologies such as data de-duplication, iSCSI, and Continuous Data Protection
- Design storage area networks that meet specific needs
- Maintain and troubleshoot SANs
- Develop SANs that will aid your company's disaster-recovery plan

**Christopher Poelker**  
**Alex Nikitin**



# Storage Area Networks For Dummies

**Minjie Lin**



## **Storage Area Networks For Dummies:**

**Storage Area Networks For Dummies** Christopher Poelker,Alex Nikitin,2009-01-06 If you ve been charged with setting up storage area networks for your company learning how SANs work and managing data storage problems might seem challenging Storage Area Networks For Dummies 2nd Edition comes to the rescue with just what you need to know Whether you already a bit SAN savvy or you re a complete novice here s the scoop on how SANs save money how to implement new technologies like data de duplication iScsi and Fibre Channel over Ethernet how to develop SANs that will aid your company s disaster recovery plan and much more For example you can Understand what SANs are whether you need one and what you need to build one Learn to use loops switches and fabric and design your SAN for peak performance Create a disaster recovery plan with the appropriate guidelines remote site and data copy techniques Discover how to connect or extend SANs and how compression can reduce costs Compare tape and disk backups and network vs SAN backup to choose the solution you need Find out how data de duplication makes sense for backup replication and retention Follow great troubleshooting tips to help you find and fix a problem Benefit from a glossary of all those pesky acronyms From the basics for beginners to advanced features like snapshot copies storage virtualization and heading off problems before they happen here s what you need to do the job with confidence

**Storage Area Networks For Dummies** Christopher Poelker,Alex Nikitin,2003-03-07 In case you weren t sure a storage area network or SAN is a collection of computers and storage devices connected over a high speed optical network and dedicated to the task of storing and protecting data SANs solve many of the data storage and management problems that have long bedeviled enterprise networks and they save companies who use them a bundle Which is why SAN administration is one of the highest paid jobs in IT today Add storage area networking to your resume and your phone will ring off the hook with calls by head hunters promising of six figure salaries Bored with in your current IT job and looking for a change of pace and bigger bucks Then Storage Area Networks For Dummies is for you Have you been tasked with designing implementing or troubleshooting your company s SAN and need to play catch up in a hurry Look no further In no time this book gets you on track with the know how and confidence you need to Choose the right hardware for the job Design state of the art SANs Implement a SAN and get it running like a well oiled machine Configure manage and troubleshoot SANs Seamlessly integrate two or more SANs Become a SAN sage and give your career a major boost From the ABCs of SANs to making the most of advanced SAN features Storage Area Networks For Dummies covers all the bases in plain English and with loads of real life examples Key topics covered include What are SANs how they work and who needs them SAN protocols components and common problems Designing and building a SAN SANs and disaster recovery Networking SANs Understanding choosing and using SAN backup solutions Making the most of Point in Time technology Outsourcing SANs Managing and troubleshooting SANs The solution to so many enterprise data storage problems SANs equal heightened efficiency and productivity for organizations and greater prosperity for those who build and manage them

Let *Storage Area Networks For Dummies* help you get in on the ground floor of one of today's hottest IT growth areas

*Storage Area Network Essentials* Richard Barker, Paul Massiglia, 2002-10-23 The inside scoop on a leading edge data storage technology The rapid growth of e-commerce and the need to have all kinds of applications operating at top speed at the same time all on a 24/7 basis while connected to the Internet is overwhelming traditional data storage methods The solution Storage Area Networks SANs the data communications technology that's expected to revolutionize distributed computing Written by top technology experts at VERITAS Software Global Corporation this book takes readers through all facets of storage networking explaining how a SAN can help consolidate conventional server storage onto networks how it makes applications highly available no matter how much data is being stored and how this in turn makes data access and management faster and easier System and network managers considering storage networking for their enterprises as well as application developers and IT staff will find invaluable advice on the design and deployment of the technology and how it works Detailed up to date coverage includes The evolution of the technology and what is expected from SANs Killer applications for SANs Full coverage of storage networking and what it means for the enterprise's information processing architecture Individual chapters devoted to the storage network and software components of storage networking Issues for implementation and adoption

*TCP/IP For Dummies* Candace Leiden, Marshall Wilensky, 2003-01-03 In this book you will learn about the new TCP/IP security configurations mobile IP setups and more You will navigate easily through mysteries of VLANs SANs VPNs P2P NGI FTP and more

*Designing Storage Area Networks* Tom Clark, 1999 You will also discover today's best methods for managing storage area networks and volumes including new troubleshooting techniques Jacket

*Using Storage Area Networks* NIIT (Corporation), 2002 Annotation Enter the new era of data storage that combines database and networking technologies with this introductory comparison and practical implementation of Storage Area Networks Multiple vendor reference This book provides solutions and schemes from competing SAN vendors including an appendix of available SAN products Readers will learn to customize their own SAN solution Authors forecast future growth of SANs in an Advanced Study of Virtual Interface Technically accurate instruction NIIT recently earned the National Education and Training group Excellence Award for defect free deliveries of Learning products Even highly experienced system or network professionals are unfamiliar with SAN functionality and terminology This book opens with an overview of the need for data storage in an enterprise environment the different types of data storage devices and existing data storage techniques The authors build on that foundation with an exploration of the evolution of SAN the various networking models and data centric applications a chapter dedicated to fiber channel and practical solutions for centralized heterogeneous and high speed data storage challenges The second half of this book delves into more practical applications of the SAN designing implementing managing and troubleshooting a SAN The last chapter explores how SAN fits into the current Web scenario and VI Architecture as a new system of cluster communications Unlike competing titles this book provides solutions for

alternative SAN vendors comparing SAN schemes for competitive products NIIT is a global eBusiness IT Solutions Corporation that has provided over 650 Educational Multimedia Software titles and more than 10 000 hours of instructor led training during its 16 years of training delivery Judged the Best Training Company through an opinion poll among over 1000 CIOs software professionals and IT users by ComputerWorld magazine NIIT provides classroom based training technology based training and Internet based training

*Storage Networks Explained* Ulf Troppens,Rainer Erkens,Wolfgang Muller-Friedt,Rainer Wolafka,Nils Haustein,2011-08-24 All you need to know about Storage Area Networks The amount of data of an average company doubles every year Thus companies who own 1TB of data today will own 32TB in five years Storage networks help to tame such data quantities and to manage this data growth efficiently Since stored data and information are the biggest asset of any company anyone who is involved in the planning or the operation of IT systems requires a basic knowledge of the principle and the use of storage networks *Storage Networks Explained* covers the fundamentals techniques and functions of storage networks such as disk subsystems Fibre Channel SAN Internet SCSI iSCSI Fibre Channel over Ethernet FCoE Network Attached Storage NAS file systems and storage virtualization Furthermore the authors describe the use of these techniques and how they are designed to achieve high availability flexibility and scalability of data and applications Additional attention is given to network backup and the management of storage networks Written by leading experts in the field this book on storage area networks is updated and fully revised Key features Presents the basic concepts of storage networks such as I O techniques disk subsystems virtualization NAS and SAN file systems Covers the design of storage networks which provide flexible highly available and scaleable IT systems Explains the use of storage networks for data sharing data protection and digital archiving Discusses management of storage networks using SNMP SMI S and IEEE 1244 This book provides system administrators and system architects as well as students and decision makers with the tools needed for optimal selection and cost effective use of storage networks The Linux Journal awarded the first edition with the Editor s Choice Award 2005 in the category System Administration Book

**Optical Networking: A Beginners Guide** Robert C. Elsenpeter,2002-12-20 Learn the basics of optical networking using this practical and easy to follow introductory guide You ll get an overview of concepts behind the technology as well as helpful information on Cisco Nortel and Juniper certifications Also a handy 16 page blueprint section offers additional visual instruction

**Storage Networks Explained** Ulf Troppens,Rainer Erkens,Wolfgang Müller,2005-08-05 *Storage Networks Explained* has much to recommend it ararity in the literature of digital data storage a completeexposition of both the base subject matter and its applications which at the same time offers a level of readability making itsuitable as an introduction to the subject *Storage NetworksExplained* is also flexible It can be read cover to cover browsed or used as a reference I recommend *Storage NetworksExplained* as an essential component of any active informationtechnology library Paul Massiglia Technical Director VERITASSoftware Corporation Storage networks will become a basic technology likedatabases or local area networks

According to market research 70% of external storage devices will be connected via storage networks in 2003. The authors have hands-on experience of network storage hardware and software; they teach customers about concrete network storage products; they understand the concepts behind storage networks and show customers how storage networks address their business needs. Storage networks provide shared access to stored data from multiple computers and servers, thus increasing storage efficiency and availability. They permit information management functions such as backup and recovery, data mirroring, disaster recovery, and data migration to be performed quickly and efficiently with a minimum of system overhead. This book explains how to use storage networks to fix malfunctioning business processes, covering the technologies as well as applications. A hot topic that will become increasingly important in the coming years. One of the first books to focus on using rather than building storage networks and how to solve problems. Looking beyond technology and showing the true benefits of storage networks. Covers fibre channel, SAN, Network Attached Storage, iSCSI, and InfiniBand technologies. Contains several case studies, e.g. the example of a travel portal protecting a critical database. Endorsed by the Storage Networking Industry Association. Written by very experienced professionals who tailored the book specifically to meet customer needs, including support with supplementary material on Tropp's website and a preface written by Tony Clark. Provides basic application information key for system administrators, database administrators, and managers who need to know about the networking aspects of their systems. As well as systems architects, network managers, information management directors, and decision makers. This book also supports applications for graduate students and other relevant courses in the field. Awarded Best System Administration Book 2005 by the Linux Journal.

**Imaging & Document Solutions**, 2001

**The Handbook of Computer Networks, Distributed Networks, Network Planning, Control, Management, and New Trends and Applications** Hossein Bidgoli, 2008. The Handbook of Computer Networks is the third set of reference books from leading author and Professor of Management Information Systems at California State University Bakersfield. Hossein Bidgoli. The Handbook of Computer Networks is designed to arm researchers, practitioners, students, and managers with in-depth understanding of this important and fast-growing field in its broadest scope and in an applied and functional framework. Each volume incorporates state-of-the-art core information and networking topics, practical applications, and coverage of the emerging issues in the computer networking and data communications fields.

Introduction to Local Area Computer Networks K. C. E. Gee, 1983

**American Book Publishing Record**, 2006

**IEEE International Symposium on Network Computing and Applications**, 2001. Annotation: This collection of 45 papers from the October 2001 symposium addresses distributed system, high performance computing, wireless technology, dependability, and software architecture issues related to networking. Among the topics are calculation of deadline missing probability in a QoS-capable cluster, interconnect, replicated database recovery using multicast communication, execution-driven simulation of IP router architectures, IP storage, and the CPU consumption myth, reconfigurable algorithms in view synchrony, and performance.

analysis of a wireless metropolitan area network No index c Book News Inc STORAGE NETWORKS EXPLAINED: BASIC AND APPLICATIONS OF FIBRE CHANNEL SAN, NAS, ISCSI AND INFINIBAND Ulf Troppen,Rainer Erkens,Wolfgang Muller,2008-09 Market\_Desc The book provides basic application information key for systems administrators database administrators and managers who need to know about the networking aspects of their systems As well as systems architects network managers information management directors and decision makers This book also supports applications for graduate students and other relevant courses in the field Special Features Hot topic that will become increasingly important in the coming years First book to focus on using rather than building storage networks and how to solve problems Looking beyond technology and showing the With CD benefits of storage networks Covers fibre channel SAN Network Attached Storage iSCSI and InfiniBand technologies Contains several case studies e g the example of a travel portal protecting a critical database Endorsed by the Storage Networking Industry Association Written by very experienced professionals who tailored the book specifically to meet customer needs About The Book The authors have hands on experience of network storage hardware and software they teach customers about concrete network storage products they understand the concepts behind storage networks and show customers how storage networks address their business needs They know which questions their readers will ask and what they need to know to do their day to day job as efficiently as possible both those with no SAN experience and those with SAN experience **Conference Record** ,2001 **Networking Explained** Michael Gallo,Bill Hancock,2002 Updated material reflects the changes in technology and includes such things as the new specs for 10 Gigabit Ethernet the concept of a public key infrastructure PKI the emerging home networking infrastructure standards the results of the new advanced encryption standard AES that will replace DES Increased coverage of selected topics within current chapters includes descriptions of specific flow control protocols in Chapter 5 e g Stop and Wait Sliding Window coverage of UDP and TCP in Chapter 3 coverage of DSL service in Chapter 15 description of the RSA algorithm in Chapter 16 larger glossary New chapters include voice and data wireless networking multimedia networking and network convergence New appendix on X 25 5 Chapter Titles Fundamental Concepts of Computer Networks and Networking Network Topologies Architectures and the OSI Model The Internet and TCP IP Physical Layer Concepts Data Link Layer Concepts and IEEE Standards Network Hardwar **IBM Systems Journal** International Business Machines Corporation,2003 Storage Area Network Fundamentals Meeta Gupta,2002 Storage Area Network Fundamentals looks at the various areas and technologies associated with SANs the available SAN technology its limitations expenditures and ways to minimize them and the forthcoming technology so that organizations can deploy real operational storage in data centers without further delay Designed as an introduction to SANs Storage Area Network Fundamentals develops an understanding of SAN basics and how to plan implement and manage a storage area network The book covers the different topologies protocols and products required to implement and manage efficient SANs as well as questions to test the knowledge imparted to the reader The

British National Bibliography Arthur James Wells, 2005

## Unveiling the Energy of Verbal Beauty: An Mental Sojourn through **Storage Area Networks For Dummies**

In some sort of inundated with monitors and the cacophony of quick communication, the profound energy and mental resonance of verbal art frequently diminish into obscurity, eclipsed by the regular onslaught of noise and distractions. Yet, nestled within the musical pages of **Storage Area Networks For Dummies**, a captivating work of literary splendor that pulses with natural feelings, lies an memorable trip waiting to be embarked upon. Composed by way of a virtuoso wordsmith, this exciting opus guides visitors on a psychological odyssey, delicately revealing the latent possible and profound impact embedded within the intricate internet of language. Within the heart-wrenching expanse of this evocative examination, we shall embark upon an introspective exploration of the book is central subjects, dissect its captivating publishing model, and immerse ourselves in the indelible impact it leaves upon the depths of readers souls.

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