

## <<Storage Area Network>>

### 图书基本信息

书名：<<Storage Area Networks For Dummies , 2nd ed.存储区域网指南，第2版>>

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### 内容概要

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!

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Part 1: SAN 101 Chapter 1: The Storage Area Network Defining a SAN Fiber versus Fibre How a SAN Makes Computing Different Understanding the Benefits of a SAN Finding Out Whether a SAN Is Right for You Who should use a SAN? Who should not use a SAN? Dissecting a SAN (The Four Ps) The Parts of a SAN The host layer The fabric layer The storage layer Storage arrays The SAN Protocols The SAN Players The SAN Platforms Applications that benefit from a SAN Applications that require a SAN Chapter 2: SAN Building Blocks SAN Components and How They're Used The Host Layer Host bus adapters Gigabit gadgets: GBICs and GLMs The Fabric Layer Understanding storage fabrics SAN hubs SAN switches Data routers Cables Cable-connector types SAN ports and port naming Basic SAN port modes of operation Protocols used in a Fibre Channel SAN The Storage Layer Storage arrays: Storing your data Explaining Redundant Array of Inexpensive Disks (RAID) RAID benefits RAID types Logical Unit Numbers (LUNs) Understanding storage-array classification Modular versus monolithic Monolithic (Enterprise) Modular (Departmental) Why Cache memory makes a difference Chapter 3: What Makes a SAN Go Networking Basics Moving Data at the Speed of Light Bandwidth Fibre Channel Protocols The arbitrated loop Loop addressing The Switched Fabric The fabric protocol Fabric addressing Chapter 4: What Makes a SAN Stop Discovering What Causes SAN Problems Preventing Poor SAN Design Bandwidth Too much distance between components Excess latency Congestion Over-subscription Using the Right Cables in the Right Way Avoiding connection issues Macro- and micro-bends, and the patch panel pain Cable labeling Choosing the right host bus adapter for your computer .....

Part 2: Designing and Building a SAN Part 3 : Using Advanced SAN Features Part 4: SAN Management and Troubleshooting Part 5: Understanding the Cool Stuff Part 6: The Part of Tens Index

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