

## <<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 .....

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