Storage Networks Explained: Basics and Application of Fibre Channel SAN, NAS, iSCSI, InfiniBand and FCoE

Ulf Troppens, Rainer Erkens, Wolfgang Muller-Friedt, Rainer Wolafka, Nils Haustein

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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 fundaments, 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."

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