CiscoPress - Storage Networking Protocol Fundamentals

A comparative analysis of Ethernet, TCP/IP, and Fibre Channel in the context of SCSI

- Introduces network administrators to the requirements of storage protocols
- Explains the operation of network protocols to storage administrators
- Compares and contrasts the functionality of Ethernet, TCP/IP, and Fibre Channel
- Documents the details of the major protocol suites, explains how they operate, and identifies common misunderstandings
- References the original standards and specifications so you can get a complete understanding of each protocol
- Helps you understand the implications of network design choices
- Discusses advanced network functionality such as QoS, security, management, and protocol analysis

Corporations increasingly depend on computer and communication technologies to remain competitive in the global economy. Customer relationship management, enterprise resource planning, and e-mail are a few of the many applications that generate new data every day. Effectively storing, managing, and accessing that data is a primary business challenge in the information age. Storage networking is a crucial component of the solution to meet that challenge.

Written for both storage administrators who need to learn more about networking and network administrators who need to learn more about storage, Storage Networking Protocol Fundamentals is a concise introduction to storage networking protocols. The book picks up where Storage Networking Fundamentals left off by focusing on the networking protocols that underlie modern open systems: block-oriented storage networks.

The first part of the book introduces you to the field of storage networking and the Open Systems Interconnection (OSI) reference model. The second part compares networked storage technologies, including iSCSI (Small Computer Systems Interface over IP) and Fibre Channel. It also examines in detail each of the major protocol suites layer-by-layer within the OSI reference model. The third part discusses advanced functionalities of these technologies, such as quality of service (QoS), load-balancing functions, security, management, and protocol analysis. You can read this book cover to cover or use it as a reference, directly accessing the particular topics of interest to you.

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