EMC²
where information lives

EMC Symmetrix DMX-4

The EMC Symmetrix DMX-4 delivers scalable capacity and performance to consolidate systems, applications, and/or hosts while maintaining high service levels. Incrementally scalable packaging facilitates the online addition of independent storage bays. The Direct Matrix Infrastructure accommodates non-disruptive additions of disk directors enabling increased performance when needed.

System Resources

Symmetrix DMX-4 systems are built on the field-proven Direct Matrix Architecture which provides dedicated, non-blocking interconnects between I/O directors and global memory regions. To support the massive scalability of DMX-4 configurations, the DMX architecture has been expanded and enhanced to deliver higher throughput (1 Gb/s links) and increased I/O performance thru dual 1.3 GHz PPC processors per director.

DMX data paths	32 – 128	8 per I/O director, 16 per Global Memory director
DMX data bandwidth	32 – 128 GB/s	
DMX message bandwidth	4.0 – 6.4 GB/s	
PowerPC processors	16 – 130	4 dual 1.3 GHz processor complexes per director
Global Memory	32 – 512 GB*	Available in 8, 16, 32, and 64-GB Global Memory directors
Concurrent memory transfers	16 – 32	4 per Global Memory director

*256 GB effective

Connectivity

Symmetrix DMX-4 is available in configurations supporting up to ten (10) high-speed Channel I/O Directors with four SMP-driven pipeline slices each. Optimized hardware logic and data protection encoding ensures end-to-end data integrity with automated channel failover for maximum availability and load balancing. Symmetrix DMX-4 systems support all popular hardware and operating system platforms, storage area networks (SAN), and high-availability cluster environments. IPv6 and IPsec support are available with GigE ports.

Protocol	Usable System Ports	Channel Director
4 Gb/s Fibre Channel host/SAN ports	2 – 64	1 – 8 per Fibre Channel Director
4 Gb/s Fibre Channel remote replication ports	2 – 8	1 – 4 per Fibre Channel Director
1 Gb/s iSCSI ports	2 – 48	1 – 4 per Multi-protocol Channel Director
4 Gb/s FICON host ports	2 – 48	1 – 4 per Multi-protocol Channel Director
1 Gb/s GigE remote replication ports	2 – 8	1 – 4 per Multi-protocol Channel Director
ESCON host ports	2 – 64	1 – 8 per ESCON Channel Director
ESCON remote replication ports	2 – 8	1 – 4 per ESCON Channel Director

Allowed combinations of the above port types depend upon the configuration. Higher numbers of usable front-end ports are only supported on configurations with fewer disk channels. Refer to the EMC Support Matrix on EMC.com or contact your local EMC sales representative for specific configuration support.

EMC Symmetrix DMX-4 systems are available in two in-row-bay configurations for more than one petabyte of raw storage capacity in a single system. With incremental tiered storage capability for maximum TCO value, Symmetrix DMX-4 systems are the highest capacity, fastest, most scalable, most capable storage systems available and serve as the foundation of today's most demanding intelligent information infrastructures.

Emc Symmetrix Dmx 4 Product Guide

Rufus Credle,Srikanth Aithal,Nicolas Bour,Stephane Bourdeaud,Tomi Mannikainen,Olaf Menke,Juan P Fernandez Sabate,IBM Redbooks

Emc Symmetrix Dmx 4 Product Guide:

Exploiting IBM PowerHA SystemMirror V6.1 for AIX Enterprise Edition Dino Quintero,Benny Abrar,Adriano Almeida,Michael Herrera,SoHee Kim,Bjorn Roden,Andrei Socoliuc,Tom Swart,IBM Redbooks,2014-02-18 This IBM Redbooks publication positions the IBM PowerHA SystemMirror V6 1 for AIX Enterprise Edition as the cluster management solution for high availability This solution enables near continuous application service and minimizes the impact of planned and unplanned outages The primary goal of this high availability solution is to recover operations at a remote location after a system or data center failure establish or strengthen a business recovery plan and provide separate recovery location The IBM PowerHA SystemMirror Enterprise Edition is targeted at multisite high availability disaster recovery The objective of this book is to help new and existing PowerHA customers to understand how to plan to accomplish a successful installation and configuration of the PowerHA SystemMirror for AIX Enterprise Edition This book emphasizes the IBM Power SystemsTM strategy to deliver more advanced functional capabilities for business resiliency and to enhance product usability and robustness through deep integration with AIX affiliated software stack and storage technologies PowerHA SystemMirror is designed developed integrated tested and supported by IBM from top to bottom *Computerworld* ,2003-02-10 For more than 40 years Computerworld has been the leading source of technology news and information for IT influencers worldwide Computerworld s award winning Web site Computerworld com twice monthly publication focused conference series and custom research form the hub of the world s largest global IT media network Oracle Enterprise Manager 10g Grid Control Implementation Guide Michael New,2007-12-22 Install and Configure Grid Control to Manage Your Oracle Landscape Build a robust grid computing infrastructure with guidance from an Oracle expert who developed and taught the Grid Control Deep Dive class to Oracle Consulting Featuring real world examples and best practices Oracle Enterprise Manager 10g Grid Control Implementation Guide explains how to reliably and cost effectively deploy a dynamic Grid Control environment Learn how to lay the preinstallation groundwork configure targets for monitoring create services implement security and fine tune performance You ll also get full coverage of backup and recovery strategies and high availability techniques Prepare infrastructure hosts for Grid Control rollout Install the Oracle management repository service and agents Select the Grid Control installation options that fit your needs Discover and manage host database and application server targets Set target metrics and policies according to best practices Optimize performance and availability of your Grid Control framework Secure the Grid Control framework to protect data transmitted between components *Cloud Data Centers and Cost Modeling* Caesar Wu,Rajkumar Buyya,2015-02-27 Cloud Data Centers and Cost Modeling establishes a framework for strategic decision makers to facilitate the development of cloud data centers Just as building a house requires a clear understanding of the blueprints architecture and costs of the project building a cloud based data center requires similar knowledge The authors take a theoretical and practical approach starting with the key questions to help uncover needs and

clarify project scope They then demonstrate probability tools to test and support decisions and provide processes that resolve key issues After laying a foundation of cloud concepts and definitions the book addresses data center creation infrastructure development cost modeling and simulations in decision making each part building on the previous In this way the authors bridge technology management and infrastructure as a service in one complete guide to data centers that facilitates educated decision making Explains how to balance cloud computing functionality with data center efficiency Covers key requirements for power management cooling server planning virtualization and storage management Describes advanced methods for modeling cloud computing cost including Real Option Theory and Monte Carlo Simulations Blends theoretical and practical discussions with insights for developers consultants and analysts considering data center development

Information Storage and Management EMC Education Services,2010-01-06 The spiraling growth of digital information makes the ISM book a must have addition to your IT reference library This exponential growth has driven information management technology to new levels of sophistication and complexity exposing a skills gap that challenge IT managers and professionals alike The ISM book written by storage professionals from EMC Corporation takes an open approach to teaching information storage and management focusing on concepts and principles rather that product specifics that can be applied in all IT environments The book enables existing and aspiring IT professionals students faculty and those simply wishing to gain deeper insight to this emerging pillar of IT infrastructure to achieve a comprehensive understanding of all segments of information storage technology Sixteen chapters are organized into four sections Advanced topics build upon the topics learned in previous chapters Section 1 Information Storage and Management for Today s World Four chapters cover information growth and challenges define a storage system and its environment review the evolution of storage technology and introduce intelligent storage systems Section 2 Storage Options and Protocols Six chapters cover the SCSI and Fibre channel architecture direct attached storage DAS storage area networks SANs network attached storage NAS Internet Protocol SAN IP SAN content addressed storage CAS and storage virtualization Section 3 Business Continuity and Replication Four chapters introduce business continuity backup and recovery local data replication and remote data replication Section 4 Security and Administration Two chapters cover storage security and storage infrastructure monitoring and management The book s supplementary web site provides up to date information on additional learning aids and storage certification opportunities   **Computerworld** ,2003-08-04 For more than 40 years Computerworld has been the leading source of technology news and information for IT influencers worldwide Computerworld s award winning Web site Computerworld com twice monthly publication focused conference series and custom research form the hub of the world s largest global IT media network   **Integrated Information and Computing Systems for Natural, Spatial, and Social Sciences** Rückemann, Claus-Peter,2012-10-31 The 21st century has seen a number of advancements in technology including the use of high performance computing Computing resources are being used by the science and economy fields for data

processing simulation and modeling These innovations aid in the support of production logistics and mobility processes Integrated Information and Computing Systems for Natural Spatial and Social Sciences covers a carefully selected spectrum of the most up to date issues revealing the benefits dynamism potential and challenges of information and computing system application scenarios and components from a wide spectrum of prominent disciplines This comprehensive collection offers important guidance on the development stage of the universal solution to information and computing systems for researchers as well as industry decision makers and developers   ,   **Computerworld** ,2006-04-17 For more than 40 years Computerworld has been the leading source of technology news and information for IT influencers worldwide Computerworld s award winning Web site Computerworld com twice monthly publication focused conference series and custom research form the hub of the world s largest global IT media network   **Server Architectures** René J. Chevance,2004-12-31 The goal of this book is to present and compare various options one for systems architecture from two separate points of view One that of the information technology decision maker who must choose a solution matching company business requirements and secondly that of the systems architect who finds himself between the rock of changes in hardware and software technologies and the hard place of changing business needs Different aspects of server architecture are presented from databases designed for parallel architectures to high availability systems and touching en route on often neglected performance aspects The book provides IT managers decision makers and project leaders who want to acquire knowledge sufficient to understand the choices made in and capabilities of systems offered by various vendors Provides system design information to balance the characteristic applications against the capabilities and nature of various architectural choices In addition it offers an integrated view of the concepts in server architecture accompanied by discussion of effects on the evolution of the data processing industry   **The Advertising Red Books** ,2010   我的第一本专利分析实战宝典 张雅娴,2013-11-01   专利分析方法与实务 张雅娴,2013-12-01   **Upgrading and Repairing Servers** Scott Mueller,Mark Edward Soper,Barrie Sosinsky,2006-04-24 As the price of servers comes down to the level of desktop PCs many small and medium sized businesses are forced to provide their own server setup maintenance and support without the high dollar training enjoyed by their big corporation counterparts Upgrading and Repairing Servers is the first line of defense for small and medium sized businesses and an excellent go to reference for the experienced administrators who have been asking for a reference guide like this one for a long time It s all here in one incredibly useful tome that you will refer to again and again Inside is in depth coverage of server design and implementation building and deploying server hardware components network and backup operations SAN fault tolerance server racks server rooms server operating systems as well as SUN Microsystems servers No other computer hardware book has ever dared tackle this enormous topic until now   Networking Bible Barrie Sosinsky,2009-08-13 Everything you need to set up and maintain large or small networks Barrie Sosinsky Networking Bible Create a secure network for home or enterprise Learn basic building blocks and standards Set up for broadcasting streaming and more The

book you need to succeed Your A Z guide to networking essentials Whether you re setting up a global infrastructure or just networking two computers at home understanding of every part of the process is crucial to the ultimate success of your system This comprehensive book is your complete step by step guide to networking from different architectures and hardware to security diagnostics Web services and much more Packed with practical professional techniques and the very latest information this is the go to resource you need to succeed Demystify the basics network stacks bus architectures mapping and bandwidth Get up to speed on servers interfaces routers and other necessary hardware Explore LANs WANs Wi Fi TCP IP and other types of networks Set up domains directory services file services caching and mail protocols Enable broadcasting multicasting and streaming media Deploy VPNs firewalls encryption and other security methods Perform diagnostics and troubleshoot your systems **The Standard and Poor's 500 Guide** Standard & Poor's,2005-12 Text and statistical data on 500 individual companies *IBM Systems Director 6.3 Best Practices* Rufus Credle,Srikanth Aithal,Nicolas Bour,Stephane Bourdeaud,Tomi Mannikainen,Olaf Menke,Juan P Fernandez Sabate,IBM Redbooks,2013-11-08 This IBM Redbooks publication describes the positioning of the IBM Systems Director in the complete management range It also compares the IBM Systems Director with the IBM Flex Systems Manager FSM and describes the environments for which each tool is best suited This publication helps you plan install tailor and configure the IBM Systems Director on different platforms It contains information about required system resources and which network ports are used It shows how to use the Workload Estimator to select the appropriate hardware for IBM Systems Director server and provides information about the IBM Systems Director Editions Best practices are covered for the basic management tasks that are available in IBM Systems Director including how to perform discovery how to collect inventory on discovered resources how to deploy agent driver and firmware updates how to manage hardware events and other miscellaneous tasks An overview of best practices is provided for using IBM Systems Director VMControlTM Systems Director VMControl is a cross platform product that assists you in rapidly deploying virtual appliances to create virtual servers that are configured with the operating system and software applications that you want It also enables you to group resources into system pools which enable you to centrally manage and control the different workloads in your environment The following plug in offerings are described Energy monitoring and management features offered by IBM Systems Director Active Energy ManagerTM along with the best practice which needs to be followed in using the IBM Systems Director Active Energy Manager The IBM AIX Profile Manager is a tool that can help implement and monitor the security of all AIX servers in a production environment but also implement and monitor the system compliance of those AIX servers Best practices and the most important questions to ask before creating Workload Partition Manager WPAR and WPAR Manager infrastructure In addition how you can manage and relocate WPARs using WPAR Manager graphical interface and the command line interface Network Control basic functionalities and how to plan for Network Control deployments and also a number of common scenarios with best practices The IBM Systems Director Service

and Support Manager describes how to set up and how to handle serviceable events Best practices for the Storage Monitoring and Management capabilities offered by IBM Systems Director server This book is for IBM IT specialists and IT architects IBM Business Partners and clients who are utilizing or considering implementing IBM Systems Director **CIO** ,2003-03-01 Inside System Storage: Volume II (Paperback) Tony Pearson,2010-01-21 Inside System Storage Volume II picks up where Volume I ends with eight more months of blog posts including behind the scenes commentary about IBM s transformation in its storage business involving two key acquisitions XIV and Diligent *S & P 500 ... Directory* ,2003

Emc Symmetrix Dmx 4 Product Guide Book Review: Unveiling the Power of Words

In a world driven by information and connectivity, the energy of words has become more evident than ever. They have the capacity to inspire, provoke, and ignite change. Such may be the essence of the book **Emc Symmetrix Dmx 4 Product Guide**, a literary masterpiece that delves deep into the significance of words and their affect our lives. Written by a renowned author, this captivating work takes readers on a transformative journey, unraveling the secrets and potential behind every word. In this review, we shall explore the book is key themes, examine its writing style, and analyze its overall effect on readers.

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Table of Contents Emc Symmetrix Dmx 4 Product Guide

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