

EMC SYMMETRIX VMAX 20K STORAGE SYSTEM



The EMC® Virtual Matrix Architecture™ is a new way to build storage systems that transcends the physical constraints of all existing architectures by scaling system resources through common building blocks called EMC® Symmetrix® VMAX® 20K engines.

A single VMAX 20K engine provides the complete foundation for a high-availability Symmetrix VMAX 20K system. Each VMAX 20K engine contains two Symmetrix VMAX 20K directors and redundant interfaces to the EMC Virtual Matrix™ interconnect. Each Symmetrix VMAX 20K director consolidates front-end, global memory, and back-end functions, enabling direct memory access to data for optimized I/O operations.

VMAX 20K engines are interconnected via a set of multiple active fabrics that provides scalable performance and high availability. VMAX 20K engines can be added non-disruptively to provide linear scale-out of Symmetrix system resources. The Virtual Matrix is architected to scale to dozens of engines, geographically dispersed throughout a data center, delivering unprecedented scale of infrastructure services under a single point of management.

VMAX 20K ENGINE MAXIMUM SPECIFICATIONS

- Four Quad-core 2.33 GHz Intel® Xeon® processors
- Up to 128 GB of memory
- Virtual Matrix bandwidth: 24 GB/s

VMAX 20K MAXIMUM SYSTEM SPECIFICATIONS

- Eight VMAX 20K engines
- 1 TB of memory
- Virtual Matrix bandwidth: 192 GB/s

VMAX 20K INTERCONNECT

- Industry-standard RapidIO® fabric (Virtual Matrix Architecture is extendible to other standard interconnects.)

CONNECTIVITY

Symmetrix VMAX 20K systems are available in configurations supporting up to eight VMAX 20K engines with a maximum of 128 front-end ports. Optimized hardware logic and data protection encoding ensures end-to-end data integrity with automated channel failover for a maximum availability and load balancing.

Symmetrix VMAX 20K systems support all popular hardware and operating system platforms, storage area networks (SANs), and high-availability cluster environments. SPv6, SPec, and compression support are available with 1 Gb/s Ethernet ports. SPv6 support is available with 10 Gb/s Ethernet.

PROTOCOL

8 Gb/s Fibre Channel Host/ SAN Ports
8 Gb/s Fibre Channel Remote Replication Ports
8 Gb/s FICON Host Ports
4 Gb/s Fibre Channel Host/SAN Ports
4 Gb/s Fibre Channel Remote Replication Ports
4 Gb/s FICON Host Ports
10 Gb/s 1 Gb/s Ethernet Remote Replication Ports
10 Gb/s FCoE Host Ports10
10 Gb/s iSCSI Host Ports10
1 Gb/s GigE Remote Replication Ports
1 Gb/s iSCSI Ports

USABLE SYSTEM PORTS

4-128 per array, 4-16 ports per engine
2-32 per array, 2-4 ports per engine
4-64 per array, 4-8 ports per engine
4-128 per array, 4-16 ports per engine
2-32 per array, 2-4 ports per engine
4-64 per array, 4-8 ports per VMAX engine
2-32 ports per array, 2-4 ports per engine
4-64 per array, 4-8 ports per engine
4-64 ports per array, 4-8 ports engine
2-32 ports per array, 2-4 ports per engine
4-64 per array, 4-8 ports per engine

Configuration And Resource Guide For Symmetrix Vmax

Jon Herd, IBM Redbooks



Configuration And Resource Guide For Symmetrix Vmax:

IBM FlashSystem Best Practices and Performance Guidelines Anil K Nayak, Antonio Rainero, Barry Whyte, Chris Hoffmann, Danilo Morelli Miyasiro, David Green, Duane Bolland, Jackson Shea, Jon Herd, Jordan Fincher, Marcelo Avalos, Sergey Kubin, Sidney Varoni Junior, Thales Noivo Ferreira, Vasfi Gucer, IBM Redbooks, 2021-10-13 This IBM Redbooks publication captures several of the preferred practices and describes the performance gains that can be achieved by implementing the IBM FlashSystem products These practices are based on field experience This book highlights configuration guidelines and preferred practices for the storage area network SAN topology clustered system back end storage storage pools and managed disks volumes Remote Copy services and hosts It explains how you can optimize disk performance with the IBM System Storage Easy Tier function It also provides preferred practices for monitoring maintaining and troubleshooting This book is intended for experienced storage SAN IBM FlashSystem SAN Volume Controller and IBM Storwize administrators and technicians Understanding this book requires advanced knowledge of these environments *IBM SAN Volume Controller Best Practices and Performance Guidelines* Anil K Nayak, Antonio Rainero, Barry Whyte, Chris Hoffmann, Danilo Morelli Miyasiro, David Green, Duane Bolland, Jackson Shea, Jon Herd, Jordan Fincher, Marcelo Avalos, Sergey Kubin, Sidney Varoni Junior, Thales Noivo Ferreira, Vasfi Gucer, IBM Redbooks, 2021-10-13 This IBM Redbooks publication describes several of the preferred practices and describes the performance gains that can be achieved by implementing the IBM SAN Volume Controller powered by IBM Spectrum Virtualize V8.4 These practices are based on field experience This book highlights configuration guidelines and preferred practices for the storage area network SAN topology clustered system back end storage storage pools and managed disks volumes Remote Copy services and hosts Then it provides performance guidelines for IBM SAN Volume Controller back end storage and applications It explains how you can optimize disk performance with the IBM System Storage Easy Tier function It also provides preferred practices for monitoring maintaining and troubleshooting IBM SAN Volume Controller This book is intended for experienced storage SAN and IBM SAN Volume Controller administrators and technicians Understanding this book requires advanced knowledge of the IBM SAN Volume Controller IBM FlashSystem and SAN environments **Veritas Certified Professional Certification Prep Guide : 350 Questions & Answers** CloudRoar Consulting Services, 2025-08-15 Get ready for the Veritas Certified Professional exam with 350 questions and answers covering NetBackup data protection disaster recovery storage optimization policies and best practices Each question provides practical examples and detailed explanations to ensure exam readiness Ideal for IT engineers and backup specialists Veritas Certified Professional NetBackup Data Protection Disaster Recovery Storage Optimization Policies Best Practices Exam Preparation Career Growth Professional Development IT Skills Backup System Administration IT Certifications *IBM FlashSystem Best Practices and Performance Guidelines for IBM Spectrum Virtualize Version 8.4.2* Antonio Rainero, Carlton Beatty, David Green, Hartmut Lonzer, Jonathan Wilkie, Kendall

Williams, Konrad Trojok, Mandy Stevens, Nezih Boyacıoglu, Nils Olsson, Renato Santos, Rene Oehme, Sergey Kubin, Thales Noivo Ferreira, Uwe Schreiber, Vasfi Gucer, IBM Redbooks, 2022-02-02 This IBM Redbooks publication captures several of the preferred practices and describes the performance gains that can be achieved by implementing the IBM FlashSystem products that are powered by IBM Spectrum Virtualize Version 8.4.2 These practices are based on field experience This book highlights configuration guidelines and preferred practices for the storage area network SAN topology clustered system back end storage storage pools and managed disks volumes Remote Copy services and hosts It explains how you can optimize disk performance with the IBM System Storage Easy Tier function It also provides preferred practices for monitoring maintaining and troubleshooting This book is intended for experienced storage SAN IBM FlashSystem SAN Volume Controller and IBM Storwize administrators and technicians Understanding this book requires advanced knowledge of these environments

Performance and Best Practices Guide for IBM Storage FlashSystem and IBM SAN Volume Controller (for IBM Storage Virtualize 8.6) Bernhard Albrecht, Christian Schroeder, Denis Olshanskiy, Hartmut Lonzer, John Nycz, Jon Herd, Konrad Trojok, Nils Olsson, Patrik Groß, Rene Wuellenweber, Sergey Kubin, Vasfi Gucer, Vineet Sharma, IBM Redbooks, 2024-10-30 This IBM Redbooks publication captures several best practices and describes the performance gains that can be achieved by implementing the IBM Storage FlashSystem and IBM SAN Volume Controller SVC products running IBM Storage Virtualize 8.6 These practices are based on field experience This book highlights configuration guidelines and best practices for the storage area network SAN topology clustered system back end storage storage pools and managed disks MDisk volumes Remote Copy services and hosts This book is intended for experienced storage SAN IBM Storage FlashSystem and SVC administrators and technicians Understanding this book requires advanced knowledge of these environments This book is focused on IBM Storage FlashSystem and SVC systems that run IBM Storage Virtualize 8.6 Most configuration principles and best practices that are described in the book are still applicable for systems that cannot be upgraded to version 8.6 but some features are not available

IBM FlashSystem 7200 Product Guide Jon Herd, IBM Redbooks, 2021-04-14 This IBM Redbooks Product Guide publication describes the IBM FlashSystem 7200 solution which is a comprehensive all flash and NVMe enabled enterprise storage solution that delivers the full capabilities of IBM FlashCore technology In addition it provides a rich set of software defined storage SDS features including data reduction and de duplication dynamic tiering thin provisioning snapshots cloning replication data copy services and IBM HyperSwap for high availability HA Scale out and scale up configurations further enhance capacity and throughput for better availability

VMware Software-Defined Storage Martin Hosken, 2016-08-11 The inside guide to the next generation of data storage technology VMware Software Defined Storage A Guide to the Policy Driven Software Defined Storage Era presents the most in depth look at VMware's next generation storage technology to help solutions architects and operational teams maximize quality storage design Written by a double VMware Certified Design Expert this book delves into the design factors and capabilities of Virtual SAN

and Virtual Volumes to provide a uniquely detailed examination of the software defined storage model Storage as a Service STaaS is discussed in terms of deployment through VMware technology with insight into the provisioning of storage resources and operational management while legacy storage and storage protocol concepts provide context and demonstrate how Virtual SAN and Virtual Volumes are meeting traditional challenges The discussion on architecture emphasizes the economies of storage alongside specific design factors for next generation VMware based storage solutions and is followed by an example in which a solution is created based on the preferred option identified from a selection of cross site design options Storage hardware lifecycle management is an ongoing challenge for IT organizations and service providers VMware is addressing these challenges through the software defined storage model and Virtual SAN and Virtual Volumes technologies this book provides unprecedented detail and expert guidance on the future of storage Understand the architectural design factors of VMware based storage Learn best practices for Virtual SAN stretched architecture implementation Deploy STaaS through vRealize Automation and vRealize Orchestrator Meet traditional storage challenges with next generation storage technology Virtual SAN and Virtual Volumes are leading the way in efficiency automation and simplification while maintaining enterprise class features and performance As organizations around the world are looking to cut costs without sacrificing performance availability or scalability VMware based next generation storage solutions are the ideal platform for tomorrow's virtual infrastructure VMware Software Defined Storage provides detailed practical guidance on the model that is set to transform all aspects of vSphere data center storage

IBM FlashSystem 9200 Product Guide
Jon Herd, IBM Redbooks, 2021-04-14 This IBM Redbooks Product Guide publication describes the IBM FlashSystem 9200 solution which is a comprehensive all flash and NVMe enabled enterprise storage solution that delivers the full capabilities of IBM FlashCore technology In addition it provides a rich set of software defined storage SDS features including data reduction and de duplication dynamic tiering thin provisioning snapshots cloning replication data copy services and IBM HyperSwap for high availability HA Scale out and scale up configurations further enhance capacity and throughput for better availability

Compliance Engineering ... Reference Guide, 2000 [IBM SAN Volume Controller Best Practices and Performance Guidelines for IBM Spectrum Virtualize Version 8.4.2](#) Antonio Rainero, Carlton Beatty, David Green, Hartmut Lonzer, Jonathan Wilkie, Kendall Williams, Konrad Trojok, Mandy Stevens, Nezih Boyacioglu, Nils Olsson, Renato Santos, Rene Oehme, Sergey Kubin, Thales Noivo Ferreira, Uwe Schreiber, Vasfi Gucer, IBM Redbooks, 2022-01-17 This IBM Redbooks publication captures several of the preferred practices and describes the performance gains that can be achieved by implementing the IBM SAN Volume Controller powered by IBM Spectrum Virtualize Version 8.4.2 These practices are based on field experience This book highlights configuration guidelines and preferred practices for the storage area network SAN topology clustered system back end storage storage pools and managed disks volumes Remote Copy services and hosts It explains how you can optimize disk performance with the IBM System Storage Easy Tier function It also provides preferred

practices for monitoring maintaining and troubleshooting This book is intended for experienced storage SAN IBM FlashSystem IBM SAN Volume Controller and IBM Storwize administrators and technicians Understanding this book requires advanced knowledge of these environments

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Table of Contents Configuration And Resource Guide For Symmetrix Vmax

1. Understanding the eBook Configuration And Resource Guide For Symmetrix Vmax
 - The Rise of Digital Reading Configuration And Resource Guide For Symmetrix Vmax
 - Advantages of eBooks Over Traditional Books
2. Identifying Configuration And Resource Guide For Symmetrix Vmax
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Configuration And Resource Guide For Symmetrix Vmax
 - User-Friendly Interface
4. Exploring eBook Recommendations from Configuration And Resource Guide For Symmetrix Vmax
 - Personalized Recommendations
 - Configuration And Resource Guide For Symmetrix Vmax User Reviews and Ratings
 - Configuration And Resource Guide For Symmetrix Vmax and Bestseller Lists
5. Accessing Configuration And Resource Guide For Symmetrix Vmax Free and Paid eBooks
 - Configuration And Resource Guide For Symmetrix Vmax Public Domain eBooks
 - Configuration And Resource Guide For Symmetrix Vmax eBook Subscription Services
 - Configuration And Resource Guide For Symmetrix Vmax Budget-Friendly Options
6. Navigating Configuration And Resource Guide For Symmetrix Vmax eBook Formats
 - ePub, PDF, MOBI, and More
 - Configuration And Resource Guide For Symmetrix Vmax Compatibility with Devices
 - Configuration And Resource Guide For Symmetrix Vmax Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Configuration And Resource Guide For Symmetrix Vmax
 - Highlighting and Note-Taking Configuration And Resource Guide For Symmetrix Vmax
 - Interactive Elements Configuration And Resource Guide For Symmetrix Vmax
8. Staying Engaged with Configuration And Resource Guide For Symmetrix Vmax

- Joining Online Reading Communities
- Participating in Virtual Book Clubs
- Following Authors and Publishers Configuration And Resource Guide For Symmetrix Vmax
- 9. Balancing eBooks and Physical Books Configuration And Resource Guide For Symmetrix Vmax
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Configuration And Resource Guide For Symmetrix Vmax
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Configuration And Resource Guide For Symmetrix Vmax
 - Setting Reading Goals Configuration And Resource Guide For Symmetrix Vmax
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Configuration And Resource Guide For Symmetrix Vmax
 - Fact-Checking eBook Content of Configuration And Resource Guide For Symmetrix Vmax
 - Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
- 14. Embracing eBook Trends
 - Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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