

PLANNING GUIDE

EMC® Symmetrix® VMAX® Family

Physical Planning Guide

October, 2013

Rev 03

This document describes physical planning for EMC® Symmetrix® VMAX® 10K (SN xxx987xxxx), VMAX® 20K, and VMAX® 40K systems with Enginuity™ operating environment. Topics include:

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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 MDisks 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 *Performance and Best Practices Guide for IBM Spectrum Virtualize 8.5* Vasfi Gucer,Andy Haerchen,Ashutosh Pathak,Barry Whyte,Cassio Alexandre de Aguiar,Fabio Trevizan de Oliveira,Hartmut Lonzer,Luis Eduardo Silva Viera,Mahendra S Brahmadau,Mangesh M Shirke,Nezih Boyacioglu,Sergey Kubin,Stephen Solewin,Thales Ferreira,Tiago Moreira Candelaria Bastos,Uwe Schreiber,Youssef Largou,IBM Redbooks,2023-10-03 This IBM Redbooks publication captures several best practices and describes the performance gains that can be achieved by implementing the IBM FlashSystem and IBM SAN Volume Controller SVC products running IBM Spectrum Virtualize 8.5 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 MDisks volumes Remote Copy services and hosts This book explains how you can optimize disk performance with the IBM Easy Tier function It also provides best practices for monitoring maintaining and troubleshooting This book is intended for experienced storage SAN IBM FlashSystem and SVC administrators and technicians Understanding this book requires advanced knowledge of these environments This book is focused on IBM FlashSystem and SVC systems that run IBM Spectrum Virtualize 8.5 Most configuration principles and best practices that are described in the book are still applicable for systems that cannot be upgraded to version 8.5 but some features are not available Enterprise Network Testing Andy Sholomon,Tom Kunath,2011-04-14 Enterprise Network Testing Testing Throughout the Network Lifecycle to Maximize Availability and Performance Andy Sholomon CCIE No 15179 Tom Kunath CCIE No 1679 The complete guide to using testing to reduce risk and downtime in advanced enterprise networks Testing has become crucial to meeting enterprise expectations of near zero network downtime Enterprise Network Testing is the first comprehensive guide to all facets of enterprise network testing

Cisco enterprise consultants Andy Sholomon and Tom Kunath offer a complete blueprint and best practice methodologies for testing any new network system product solution or advanced technology Sholomon and Kunath begin by explaining why it is important to test and how network professionals can leverage structured system testing to meet specific business goals Then drawing on their extensive experience with enterprise clients they present several detailed case studies Through real world examples you learn how to test architectural proofs of concept specific network features network readiness for use migration processes security and more Enterprise Network Testing contains easy to adapt reference test plans for branches WANs MANs data centers and campuses The authors also offer specific guidance on testing many key network technologies including MPLS VPN QoS VoIP video IPsec VPNs advanced routing OSPF EIGRP BGP and Data Center Fabrics Understand why when and how you should test your network Use testing to discover critical network design flaws Incorporate structured systems testing into enterprise architecture strategy Utilize testing to improve decision making throughout the network lifecycle Develop an effective testing organization and lab facility Choose and use test services providers Scope plan and manage network test assignments nLeverage the best commercial free and IOS test tools Successfully execute test plans including crucial low level details Minimize the equipment required to test large scale networks Identify gaps in network readiness Validate and refine device configurations Certify new hardware operating systems and software features Test data center performance and scalability Leverage test labs for hands on technology training This book is part of the Networking Technology Series from Cisco Press which offers networking professionals valuable information for constructing efficient networks understanding new technologies and building successful careers

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

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