



Up to 10 expansion units



Expansion port 2

Left and right node canisters  
(Controller Unit)

Expansion port 1



Up to 10 expansion units

# Ibm V7000 Configuration Guide

**Dino Quintero,William M  
Genovese,KiWacon Kim,Ming Jun MJ  
Li,Fabio Martins,Ashish Nainwal,Dusan  
Smolej,Marcin Tabinowski,Ashu  
Tiwary,IBM Redbooks**

## **Ibm V7000 Configuration Guide:**

**Implementing the IBM Storwize V7000 Unified Disk System** Jure Arzensek, Nancy Kinney, Daniel Owen, Jorge Quintal, Jon Tate, IBM Redbooks, 2014-12-19 This IBM Redbooks publication introduces the IBM Storwize V7000 Unified Disk System a virtualized storage system that consolidates block and file workloads into a single storage system Advantages include simplicity of management reduced cost highly scalable capacity performance and high availability It also offers improved efficiency and flexibility through built in solid state drive optimization thin provisioning IBM Real time Compression™ and nondisruptive migration of data from existing storage The system can virtualize and reuse existing disk systems which offers a greater potential return on investment We suggest that you familiarize yourself with the following Redbooks publications to get the most from this book **Implementing the IBM Storwize V7000 V6.3 SG24 7938** **Implementing the IBM System Storage SAN Volume Controller V6.3 SG24 7933** **Real time Compression in SAN Volume Controller and Storwize V7000 REDP 4859** **SONAS Implementation and Best Practices Guide SG24 7962** **SONAS Concepts Architecture and Planning Guide SG24 7963**

**Implementing the IBM Storwize V7000 with IBM Spectrum Virtualize V8.2.1** Jon Tate, Jack Armstrong, Tiago Bastos, Pawel Brodacki, Frank Enders, Sergey Kubin, Hartmut Lonzer, Danilo Miyasiro, Rodrigo Suzuki, IBM Redbooks, 2019-11-07 Continuing its commitment to developing and delivering industry leading storage technologies IBM introduces the IBM Storwize V7000 solution powered by IBM Spectrum™ Virtualize This innovative storage offering delivers essential storage efficiency technologies and exceptional ease of use and performance all integrated into a compact modular design that is offered at a competitive midrange price The IBM Storwize V7000 solution incorporates some of the top IBM technologies that are typically found only in enterprise class storage systems which raises the standard for storage efficiency in midrange disk systems This cutting edge storage system extends the comprehensive storage portfolio from IBM and can help change the way organizations address the ongoing information explosion This IBM Redbooks publication introduces the features and functions of the IBM Storwize V7000 and IBM Spectrum Virtualize™ V8.2.1 system through several examples This book is aimed at pre sales and post sales technical support and marketing and storage administrators It helps you understand the architecture of the Storwize V7000 how to implement it and how to take advantage of its industry leading functions and features

*Implementing the IBM Storwize V7000 Gen2* Jon Tate, Morten Dannemand, Nancy Kinney, Massimo Rosati, Lev Sturmer, IBM Redbooks, 2016-03-29 Data is the new currency of business the most critical asset of the modern organization In fact enterprises that can gain business insights from their data are twice as likely to outperform their competitors Nevertheless 72% of them have not started or are only planning big data activities In addition organizations often spend too much money and time managing where their data is stored The average firm purchases 24% more storage every year but uses less than half of the capacity that it already has The IBM Storwize family including the IBM SAN Volume Controller Data Platform is a storage virtualization system that enables a single point of

control for storage resources This functionality helps support improved business application availability and greater resource use The following list describes the business objectives of this system To manage storage resources in your information technology IT infrastructure To make sure that those resources are used to the advantage of your business To do it quickly efficiently and in real time while avoiding increases in administrative costs Virtualizing storage with Storwize helps make new and existing storage more effective Storwize includes many functions traditionally deployed separately in disk systems By including these functions in a virtualization system Storwize standardizes them across virtualized storage for greater flexibility and potentially lower costs Storwize functions benefit all virtualized storage For example IBM Easy Tier optimizes use of flash memory In addition IBM Real time Compression™ enhances efficiency even further by enabling the storage of up to five times as much active primary data in the same physical disk space Finally high performance thin provisioning helps automate provisioning These benefits can help extend the useful life of existing storage assets reducing costs Integrating these functions into Storwize also means that they are designed to operate smoothly together reducing management effort This IBM Redbooks publication provides information about the latest features and functions of the Storwize V7000 Gen2 and software version 7.3 implementation architectural improvements and Easy Tier *IBM System Storage SAN Volume Controller, IBM Storwize V7000, and IBM FlashSystem 7200 Best Practices and Performance Guidelines* Jon Tate, Tiago Moreira Candelaria Bastos, Jon Herd, Sang-hyun Kim, Sergey Kubin, Dirk Peitzmann, Antonio Rainero, IBM Redbooks, 2020-12-07 This IBM Redbooks publication captures several of the preferred practices and describes the performance gains that can be achieved by implementing the IBM System Storage SAN Volume Controller and IBM Storwize V7000 powered by IBM Spectrum Virtualize™ V8.2.1 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 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 SAN Volume Controller and Storwize V7000 This book is intended for experienced storage SAN and SAN Volume Controller administrators and technicians Understanding this book requires advanced knowledge of the SAN Volume Controller and Storwize V7000 and SAN environments Important On 11th February 2020 IBM announced the arrival of SAN Volume Controller SA2 and SV2 and IBM FlashSystem 7200 to the family This book was written specifically for prior versions of SVC and Storwize V7000 however most of the general principles will apply If you are in any doubt as to their applicability then you should work with your local IBM representative This book will be updated to comprehensively include SAN Volume Controller SA2 and SV2 and FlashSystem 7200 in due course **Implementing the Storwize V7000 and the IBM System Storage SAN32B-E4 Encryption Switch** Jon Tate, Stefan Neff, Glen Routley, Denis Senin, IBM Redbooks, 2012-02-15

In this IBM Redbooks publication we describe how these products can be combined to provide an encryption and virtualization solution IBM System Storage SAN32B E4 Encryption Switch IBM Storwize V7000 IBM Tivoli Key Lifecycle Manager We describe the terminology that is used in an encrypted and virtualized environment and we show how to implement these products to take advantage of their strengths This book is intended for anyone who needs to understand and implement the IBM System Storage SAN32B E4 Encryption Switch IBM Storwize V7000 IBM Tivoli Key Lifecycle Manager and encryption

IBM i and IBM Storwize Family: A Practical Guide to Usage Scenarios Sabine Jordan, Mario Kisslinger, Rodrigo Jungi Suzuki, IBM Redbooks, 2015-01-13 The use of external storage and the benefits of virtualization became a topic of discussion in the IBM i area during the last several years The question tends to be what are the advantages of the use of external storage that is attached to an IBM i environment as opposed to the use of internal storage The use of IBM PowerVM virtualization technology to virtualize Power server processors and memory also became common in IBM i environments However virtualized access to external storage and network resources by using a VIO server is still not widely used This IBM Redbooks publication gives a broad overview of the IBM Storwize family products and their features and functions It describes the setup that is required on the storage side and describes and positions the different options for attaching IBM Storwize family products to an IBM i environment Basic setup and configuration of a VIO server specifically for the needs of an IBM i environment is also described In addition different configuration options for a combined setup of IBM PowerHA SystemMirror for i and the Storwize family products are described and positioned against each other Detailed examples are provided for the setup process that is required for these environments The information that is provided in this book is useful for clients IBM Business Partners and IBM service professionals who need to understand how to install and configure their IBM i environment with attachment to the Storwize family products

**IBM System Storage SAN Volume Controller and Storwize V7000 Replication Family Services** Jon Tate, Rafael Vilela Dias, Ivaylo Dikanarov, Jim Kelly, Peter Mescher, IBM Redbooks, 2017-02-16 This IBM Redbooks publication describes the new features that have been added with the release of the IBM System Storage SAN Volume Controller SVC and IBM System Storage Storwize V7000 6 4 0 code including Replication Family Services Replication Family Services refers to the various copy services available on the SVC and Storwize V7000 including IBM FlashCopy Metro Mirror and Global Mirror Global Mirror with Change Volumes Volume Mirroring and Stretched Cluster Volume Mirroring The details behind the theory and practice of these services are examined and SAN design suggestions and troubleshooting tips are provided Planning requirements automating copy services processed and fabric design are explained Multiple examples including implementation and server integration are included along with a discussion of software solutions and services that are based on Replication Family Services This book is intended for use by pre sales and post sales support and storage administrators Readers are expected to have an advanced knowledge of the SVC Storwize V7000 and the SAN environment The following publications are useful resources that provide

background information Implementing the IBM System Storage SAN Volume Controller V6 3 SG24 7933 Implementing the IBM Storwize V7000 V6 3 SG24 7938 IBM SAN Volume Controller and Brocade Disaster Recovery Solutions for VMware REDP 4626 IBM System Storage SAN Volume Controller Upgrade Path from Version 4 3 1 to 6 1 REDP 4716 Real time Compression in SAN Volume Controller and Storwize V7000 REDP 4859 SAN Volume Controller Best Practices and Performance Guidelines SG24 7521 Implementing the Storwize V7000 and the IBM System Storage SAN32B E4 Encryption Switch SG24 7977

**IBM FlashSystem 9200 and 9100 Best Practices and Performance Guidelines** Jon Tate,Tiago Moreira Candelaria Bastos,Jon Herd,Sang-hyun Kim,Sergey Kubin,Dirk Peitzmann,Antonio Rainero,IBM Redbooks,2021-07-19 This IBM Redbooks publication captures several of the preferred practices and describes the performance gains that can be achieved by implementing the IBM FlashSystem 9100 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 Storwize administrators and technicians Understanding his book requires advanced knowledge of these environments Important IBM FlashSystem 9200 On 11th February 2020 IBM announced the arrival of the IBM FlashSystem 9200 to the family This book was written specifically for IBM FlashSystem 9100 however most of the general principles will apply to the IBM FlashSystem 9200 If you are in any doubt as to their applicability to the FlashSystem 9200 then you should work with your local IBM representative This book will be updated to include FlashSystem 9200 in due course

**DS8800 Performance Monitoring and Tuning** Gero Schmidt,Bertrand Dufrasne,Jana Jamsek,Peter Kimmel,Hiroaki Matsuno,Flavio Morais,Lindsay Oxenham,Antonio Rainero,Denis Senin,IBM Redbooks,2012-09-14 This IBM Redbooks publication provides guidance about how to configure monitor and manage your IBM System Storage DS8800 and DS8700 storage systems to achieve optimum performance It describes the DS8800 and DS8700 performance features and characteristics including IBM System Storage Easy Tier and DS8000 I O Priority Manager It also describes how they can be used with the various server platforms that attach to the storage system Then in separate chapters we detail specific performance recommendations and discussions that apply for each server environment as well as for database and DS8000 Copy Services environments We also outline the various tools available for monitoring and measuring I O performance for different server environments as well as describe how to monitor the performance of the entire DS8000 storage system This book is intended for individuals who want to maximize the performance of their DS8800 and DS8700 storage systems and investigate the planning and monitoring tools that are available The IBM System Storage DS8800 and DS8700 storage system features as described in this book are available for the DS8700 with Licensed Machine Code LMC level 6 6 2x xxx or

higher and the DS8800 with Licensed Machine Code LMC level 7 6 2x xxx or higher For information about optimizing performance with the previous DS8000 models DS8100 and DS8300 see the following IBM Redbooks publication DS8000 Performance Monitoring and Tuning SG24 7146 [IBM Software Defined Environment](#) Dino Quintero,William M Genovese,KiWoon Kim,Ming Jun MJ Li,Fabio Martins,Ashish Nainwal,Dusan Smolej,Marcin Tabinowski,Ashu Tiwary,IBM Redbooks,2015-08-14 This IBM Redbooks publication introduces the IBM Software Defined Environment SDE solution which helps to optimize the entire computing infrastructure compute storage and network resources so that it can adapt to the type of work required In today s environment resources are assigned manually to workloads but that happens automatically in a SDE In an SDE workloads are dynamically assigned to IT resources based on application characteristics best available resources and service level policies so that they deliver continuous dynamic optimization and reconfiguration to address infrastructure issues Underlying all of this are policy based compliance checks and updates in a centrally managed environment Readers get a broad introduction to the new architecture Think integration automation and optimization Those are enablers of cloud delivery and analytics SDE can accelerate business success by matching workloads and resources so that you have a responsive adaptive environment With the IBM Software Defined Environment infrastructure is fully programmable to rapidly deploy workloads on optimal resources and to instantly respond to changing business demands This information is intended for IBM sales representatives IBM software architects IBM Systems Technology Group brand specialists distributors resellers and anyone who is developing or implementing SDE

**IBM System Storage SAN Volume Controller, IBM Storwize V7000, and IBM FlashSystem 7200 Best Practices and Performance Guidelines** Tiago Moreira Candelaria Bastos,2020 **IBM Sstem Storage SAN Volume Controller and Storwize V7000 Best Practices and Performance Guidelines** Jon Tate,2017 **IBM Flex System V7000 Storage Node Introduction and Implementation Guide** John Sexton,Sangam Racherla,Eva Ho,Tilak Buneti,Carsten Larsen,Kim Serup,Massimo Rosati,Mansoor Syed,Alexander Watson,2013 IBM Flex System products are ideally suited for data center environments that require flexible cost effective secure and energy efficient hardware The IBM Flex System V7000 Storage Node is the latest addition to the IBM Flex Systems product family and is a modular storage system designed to fit into the IBM Flex System Enterprise chassis When purchased in the IBM PureFlex configurations the IBM Flex System V7000 Storage Node is configured from the factory into the hardware solution purchased If however the configuration wanted is not offered in the predefined offerings then a Build to Order configuration is designed to meet your needs The IBM Flex System V7000 Storage Node includes the capability to virtualize its own internal storage in the same manner as the IBM Storwize V7000 does It is designed to be a scalable internal storage system to support the compute nodes of the IBM Flex System environment This IBM Redbooks publication introduces the features and functions of the IBM Flex System V7000 Storage Node through several examples This book is aimed at pre sales and post sales technical support and marketing personnel and storage

administrators It can help you understand the architecture of the IBM Flex System V7000 Storage Node how to implement it and how to take advantage of the industry leading functions and features

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**IBM System Storage SAN Volume Controller and Storwize V7000** Jon Tate, Pawel Brodacki, Tilak Buneti, Christian Burns, Jana Jamsek, Erez Kirson, Marcin Tabinowski, Bosmat Tuv-El, 2013 This IBM Redbooks publication captures several of the preferred practices that are based on field experience and describes the performance gains that can be achieved by implementing the IBM System Storage SAN Volume Controller and Storwize V7000 V7.2 This book begins with a look at the latest developments with SAN Volume Controller and Storwize V7000 and reviews the changes in the previous versions of the product It 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 this book provides performance guidelines for SAN Volume Controller back end storage and applications It explains how you can optimize disk performance with the IBM System Storage Easy Tier function Next it provides preferred practices for monitoring maintaining and troubleshooting SAN Volume Controller and Storwize V7000 Finally this book highlights several scenarios that demonstrate the preferred practices and performance guidelines

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applications It explains how you can optimize disk performance with the IBM System Storage Easy Tier function Next it provides preferred practices for monitoring maintaining and troubleshooting SAN Volume Controller and Storwize V7000 Finally this book highlights several scenarios that demonstrate the preferred practices and performance guidelines

**IBM System Storage DS5000 Series Implementation and Best Practices Guide** Sangam Racherla,Matus Butora, Antonio Dell'Apa,Mario Ganem,Corne Lottering,Libor Miklas,Hrvoje Stanilovic,Alexander Watson,IBM Redbooks,2012-12-21 This IBM Redbooks publication represents a compilation of best practices for deploying and configuring the IBM System Storage DS5000 Series family of products This book is intended for IBM technical professionals Business Partners and customers responsible for the planning deployment and maintenance of the IBM System Storage DS5000 Series family of products We realize that setting up DS5000 Storage Servers can be a complex task There is no single configuration that will be satisfactory for every application or situation First we provide a conceptual framework for understanding the hardware in a Storage Area Network Then we offer our guidelines hints and tips for the physical installation cabling and zoning using the Storage Manager setup tasks Next we provide a quick guide to help you install and configure the DS5000 using best practices After that we turn our attention to the performance and tuning of various components and features including numerous guidelines We look at performance implications for various application products such as IBM DB2 Oracle IBM Tivoli Storage Manager Microsoft SQL server and in particular Microsoft Exchange server Then we review the various tools available to simulate workloads and to measure collect and analyze performance data We also consider the IBM AIX environment including IBM High Availability Cluster Multiprocessing HACMP™ and IBM General Parallel File System GPFS™ This edition of the book also includes guidelines for managing and using the DS5000 with the IBM System Storage SAN Volume Controller SVC and IBM Storwize V7000

**SAN Boot Implementation and Best Practices Guide for IBM System Storage** Sangam Racherla,Delmar Demarchi,Scott Dybas,Bobby Stark,Mansoor Syed,IBM Redbooks,2012-09-30 Booting servers from a storage area network SAN is being used increasingly in complex data center environments today due to its significant benefits over the traditional method of booting from local disks SAN Boot enables organizations to maximize consolidation of their IT resources minimize their equipment costs and realize the considerable management benefits of centralizing the boot process In SAN Boot you can deploy diskless servers in an environment where the boot disk is located on often RAID capable storage connected to the SAN The server initiator communicates with the storage device target through the SAN using the Fibre Channel host bus adapter HBA The system downtime is greatly minimized in case a critical component such as a processor memory or host bus adapter fails and needs to be replaced The system administrator needs to swap only the hardware and reconfigure the HBA s BIOS switch zoning and host port definitions on the storage server The system image still exists on the logical drive therefore the server is fully operational after the hardware swap and configuration change is completed This IBM Redbooks publication can help you with the SAN Boot implementation We

present various SAN Boot scenarios using IBM System Storage products that include DS5000 DS8000 XIV and SVC The operating systems that are covered include Windows 2008 Red Hat Linux SUSE Linux and VMware

**IBM System Storage SAN Volume Controller, IBM Storwize V7000, and IBM FlashSystem V7200 Best Practices and Performance Guidelines** Jon Tate, Tiago Bastos, Jon Herd, Sang Hyun Kim, Sergey Kubin, Dirk Peitzmann, Antonio Rainero, 2020 This IBM Redbooks publication captures several of the preferred practices and describes the performance gains that can be achieved by implementing the IBM System Storage SAN Volume Controller and IBM Storwize V7000 powered by IBM Spectrum Virtualize V8.2.1 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 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 SAN Volume Controller and Storwize V7000 This book is intended for experienced storage SAN and SAN Volume Controller administrators and technicians Understanding this book requires advanced knowledge of the SAN Volume Controller and Storwize V7000 and SAN environments Important On 11th February 2020 IBM announced the arrival of SAN Volume Controller SA2 and SV2 and IBM FlashSystem 7200 to the family This book was written specifically for prior versions of SVC and Storwize V7000 however most of the general principles will apply If you are in any doubt as to their applicability then you should work with your local IBM representative This book will be updated to comprehensively include SAN Volume Controller SA2 and SV2 and FlashSystem 7200 in due course

**IBM Storwize V7000 and SANSlide Implementation** Jon Tate, Steve Garraway, Martin Hitchman, IBM Redbooks, 2013-07-22 IBM has announced certification of the Bridgewater SANSlide Series 150 V7KSVC with its IBM System Storage SAN Volume Controller IBM Storwize V7000 and Storwize V3700 virtualized storage systems This combination of SANSlide and the Storwize V7000 system provides a powerful solution for clients who require efficient IP based replication over long distances This certification gives IBM Storwize V7000 clients a fully supported transparent technology that includes unmatched levels of performance and reliability With the SANSlide protocol acceleration technology it is now possible to replicate data across continents in a cost efficient way with little or no loss in performance At the same time bandwidth utilization can improve to over 95% instead of the 1% 5% normally achieved in long distance IP networks This IBM Redpaper™ publication shows the steps required to implement this solution efficiently and speedily

## Embracing the Tune of Expression: An Emotional Symphony within **Ibm V7000 Configuration Guide**

In a world consumed by displays and the ceaseless chatter of instantaneous communication, the melodic beauty and psychological symphony created by the published term usually fade in to the backdrop, eclipsed by the persistent noise and distractions that permeate our lives. Nevertheless, situated within the pages of **Ibm V7000 Configuration Guide** a marvelous literary prize full of raw thoughts, lies an immersive symphony waiting to be embraced. Constructed by an outstanding composer of language, that captivating masterpiece conducts readers on a mental journey, well unraveling the concealed melodies and profound influence resonating within each cautiously crafted phrase. Within the depths of this emotional examination, we will discover the book is central harmonies, analyze its enthralling publishing model, and submit ourselves to the profound resonance that echoes in the depths of readers souls.

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