

IBM Scale Out Network Attached Storage Concepts

Introduces IBM Scale Out NAS
concepts

Details hardware and software
architecture

Provides configuration
considerations



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Ibm Scale Out Network Attached Storage Concepts

**Jon Tate, Morten Dannemand, Nancy
Kinney, Massimo Rosati, Lev
Sturmer, IBM Redbooks**



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IBM Scale Out Network Attached Storage Concepts Mary Lovelace,2010 **IBM Scale Out Network Attached Storage Concepts** Ibm Redbooks,Mary Lovelace,2010 *SONAS Implementation and Best Practices Guide* Mary Lovelace,Jichan Chong,Marcos Figueiredo Jr,Curtis Neal,Gabor Penzes,Naren Rajasingam,Joe Roa,Alexander Saupp,John Sing,Shradha Nayak Thakare,Mladen Vukoje,IBM Redbooks,2012-07-27 IBM Scale Out Network Attached Storage SONAS is a Scale Out NAS offering designed to manage vast repositories of information in enterprise environments requiring very large capacities high levels of performance and high availability The IBM SONAS appliance provides a range of reliable scalable storage solutions for a variety of storage requirements These capabilities are achieved by using network access protocols such as NFS CIFS HTTPS FTP and SCP Using built in RAID technologies all data is well protected with options to add additional protection through mirroring replication snapshots and backup These storage systems are also characterized by simple management interfaces that make their installation administration and troubleshooting uncomplicated and straightforward This IBM Redbooks publication is the companion to the IBM Redbooks publication SONAS Concepts Architecture and Planning Guide SG24 7963 It is intended for storage administrators who have ordered their SONAS solution and are ready to install customize and use it A quick start scenario takes you through common SONAS administration tasks to familiarize you with the SONAS system through the GUI and CLI Backup and availability scenarios as well as best practices for setting up and troubleshooting hints and tips are included Storage and Network Convergence Using FCoE and iSCSI Sangam Racherla,Silvio Erdenberger,Harish Rajagopal,Kai Ruth,IBM Redbooks,2014-07-18 Along with servers and networking infrastructure networked storage is one of the fundamental components of a modern data center Because storage networking has evolved over the past two decades the industry has settled on the basic storage networking technologies These technologies are Fibre Channel FC storage area networks SANs Internet Small Computer System Interface iSCSI based Ethernet attachment and Ethernet based network attached storage NAS Today lossless low latency high speed FC SANs are viewed as the high performance option for networked storage iSCSI and NAS are viewed as lower cost lower performance technologies The advent of the 100 Gbps Ethernet and Data Center Bridging DCB standards for lossless Ethernet give Ethernet technology many of the desirable characteristics that make FC the preferred storage networking technology These characteristics include comparable speed low latency and lossless behavior Coupled with an ongoing industry drive toward better asset utilization and lower total cost of ownership these advances open the door for organizations to consider consolidating and converging their networked storage infrastructures with their Ethernet data networks Fibre Channel over Ethernet FCoE is one approach to this convergence but 10 Gbps enabled iSCSI also offers compelling options for many organizations with the hope that their performance can now rival that of FC This IBM Redbooks publication is written for experienced systems storage and network administrators who want to integrate the IBM System

Networking and Storage technology successfully into new and existing networks This book provides an overview of today's options for storage networking convergence It reviews the technology background for each of these options and then examines detailed scenarios for them by using IBM and IBM Business Partner convergence products **IBM Tivoli Storage Manager as a Data Protection Solution** Larry Coyne, Gerd Becker, Rosane Langnor, Mikael Lindstrom, Pia Nymann, Felipe Peres, Norbert Pott, Julien Sauvanet, Gokhan Yildirim, IBM Redbooks, 2014-08-15 When you hear IBM Tivoli Storage Manager the first thing that you typically think of is data backup Tivoli Storage Manager is the premier storage management solution for mixed platform environments Businesses face a tidal wave of information and data that seems to increase daily The ability to successfully and efficiently manage information and data has become imperative The Tivoli Storage Manager family of products helps businesses successfully gain better control and efficiently manage the information tidal wave through significant enhancements in multiple facets of data protection Tivoli Storage Manager is a highly scalable and available data protection solution It takes data protection scalability to the next level with a relational database which is based on IBM DB2 technology Greater availability is delivered through enhancements such as online automated database reorganization This IBM Redbooks publication describes the evolving set of data protection challenges and how capabilities in Tivoli Storage Manager can best be used to address those challenges This book is more than merely a description of new and changed functions in Tivoli Storage Manager it is a guide to use for your overall data protection solution **IBM Information Infrastructure Solutions Handbook** Sangam Racherla, Vikas Bajaj, Emile Knebel, Glenn Korn, Anna Kutepova, Gary Newell, Sebastian Szumczyk, IBM Redbooks, 2010-07-11 An information infrastructure is comprised of software servers storage and networks integrated and optimized to deliver timely secure and trusted information throughout the organization and to its clients and partners With the explosive growth in data and information coupled with demands for projects with rapid ROI IT infrastructures and storage administrators are reaching a breaking point IBM can help with the changes needed to manage information availability security and regulatory and compliance requirements on a tighter budget And because the health of any business often depends on its ability to take advantage of information in real time a sound intelligent information infrastructure becomes critical to supporting new growth initiatives IBM offers an innovative approach to help you manage information growth more effectively and mitigate risks with a dynamic infrastructure that efficiently and securely stores and protects information and optimizes information access You can control protect manage and gain new intelligence from your information with the IBM leading edge Information Infrastructure products services and integrated solutions supported by world class expertise and access to top experts from around the world This IBM Redbooks publication provides an overview of the IBM Information Infrastructure solutions that are designed to help you manage the information explosion and address challenges of information compliance availability retention and security This will lead your company toward improved productivity service delivery and reduced risk while streamlining costs *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

Implementing the IBM Storwize V7000 Unified Disk System Jure Arzenšek, 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*

IBM SAN Volume Controller 2145-DH8 Introduction and Implementation Jon

Tate,Andrew Beattie,Christian Burns,Torben Jensen,Libor Miklas,IBM Redbooks,2015-01-22 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 yet 72 percent 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 it already has A member of the IBM Storwize family IBM SAN Volume Controller SVC Data Platform is a storage virtualization system that enables a single point of control for storage resources to help support improved business application availability and greater resource utilization The objective is to manage storage resources in your IT infrastructure and to make sure they are used to the advantage of your business and do it quickly efficiently and in real time while avoiding increases in administrative costs Virtualizing storage with SVC Data Platform helps make new and existing storage more effective SVC Data Platform includes many functions traditionally deployed separately in disk systems By including these in a virtualization system SVC Data Platform standardizes functions across virtualized storage for greater flexibility and potentially lower costs SVC Data Platform functions benefit all virtualized storage For example IBM Easy Tier optimizes use of flash storage And 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 SVC Data Platform also means that they are designed to operate smoothly together reducing management effort In this IBM Redbooks publication we discuss the latest features and functions of the SVC 2145 DH8 and software version 7.3 implementation architectural improvements and Easy Tier

IBM SONAS Best Practices Megan Gilge,Balazs Benyovszky,David Denny,Mary Lovelace,Bill Marshall,Gabor Penzes,Ravikumar Ramaswamy,Joe Roa,John Sing,John Tarella,Michael Taylor,Shradha Nayak Thakare,IBM Redbooks,2015-09-25 As IBM Scale Out Network Attached Storage SONAS is adopted it is important to provide information about planning installation and daily administration This IBM Redbooks publication also describes leading tuning practices information gained by those who implement and support SONAS These preferred practices are based on hands on experience from the field Monitoring of the SONAS system is included This IBM Redbooks publication provides information about IBM SONAS features and function at the 1.5.1 level This book is the companion to the IBM SONAS Implementation Guide SG24 7962 IBM Redbooks publication It is intended for readers who have implemented SONAS and are responsible for daily administration and monitoring

IBM DS8870 and VMware Synergy Karl Hohenauer,Bert Dufrasne,Peter Cronauer,Bruno Anderson Barbosa,Xin Liu,IBM Redbooks,2013-08-20 This IBM Redpaper™ publication describes the support of the IBM System Storage DS8870 for VMware vSphere in general terms It also describes in greater detail the VMware vSphere Storage APIs Array Integration VAAI primitives the IBM Storage Management Console for VMware plug in

and the IBM Site Replication Adapter SRA for VMWare Site Recovery Manager SRM In addition to a high level overview of the VMWare vSphere suite this paper emphasizes the interaction of the software components with the IBM System Storage DS8870 It is intended for IT professionals who want an understanding of advantages such as off loading specific tasks to storage arrays centralized service management and simplified implementation of disaster recovery processes in virtualized environments

IBM Tivoli Storage Productivity Center V5.2 Release Guide Karen Orlando, Paolo D'Angelo, Brian De Guia, Mary Lovelace, Curtis Neal, Christian Sonder, Markus Standau, IBM Redbooks, 2014-10-19 IBM Tivoli Storage Productivity Center V5 2 is a feature rich storage management software suite The integrated suite provides detailed monitoring reporting and management within a single console In addition implementing the IBM SmartCloud Virtual Storage Center VSC license with Tivoli Storage Productivity Center addresses new workloads that require massive scale and rapid pace and accelerates business insight by adding advanced analytics functions such as storage optimization provisioning and transformation This IBM Redbooks publication is intended for storage administrators and users who are installing and using the features and functions in IBM Tivoli Storage Productivity Center V5 2 The information in this Redbooks publication can be used to plan for install and customize the components of Tivoli Storage Productivity Center in your storage infrastructure Note This IBM Redbooks publication is written and based on Tivoli Storage Productivity Center V5 2 2 Sections in this book that pertain to advanced analytics including cloud configuration provisioning transforming volumes and storage optimization all require the IBM SmartCloud Virtual Storage Center license to be installed

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

Supercomputing Julian M. Kunkel, Thomas Ludwig, Hans Meuer, 2013-06-12 This book constitutes the refereed proceedings of the 28th International Supercomputing Conference ISC 2013 held in Leipzig Germany in June 2013 The 35 revised full papers presented together were carefully reviewed and selected from 89 submissions The papers cover the following topics scalable applications with 50K cores performance improvements in algorithms accelerators performance analysis and optimization library development administration and management of supercomputers energy efficiency parallel I O grid and cloud

Computer Organisation and Architecture Pranabananda Chakraborty, 2020-09-30 Computer organization and architecture is

becoming an increasingly important core subject in the areas of computer science and its applications and information technology constantly steers the relentless revolution going on in this discipline This textbook demystifies the state of the art using a simple and step by step development from traditional fundamentals to the most advanced concepts entwined with this subject maintaining a reasonable balance among various theoretical principles numerous design approaches and their actual practical implementations Being driven by the diversified knowledge gained directly from working in the constantly changing environment of the information technology IT industry the author sets the stage by describing the modern issues in different areas of this subject He then continues to effectively provide a comprehensive source of material with exciting new developments using a wealth of concrete examples related to recent regulatory changes in the modern design and architecture of different categories of computer systems associated with real life instances as case studies ranging from micro to mini supermini mainframes cluster architectures massively parallel processing MPP systems and even supercomputers with commodity processors Many of the topics that are briefly discussed in this book to conserve space for new materials are elaborately described from the design perspective to their ultimate practical implementations with representative schematic diagrams available on the book s website Key Features Microprocessor evolutions and their chronological improvements with illustrations taken from Intel Motorola and other leading families Multicore concept and subsequent multicore processors a new standard in processor design Cluster architecture a vibrant organizational and architectural development in building up massively distributed parallel systems InfiniBand a high speed link for use in cluster system architecture providing a single system image FireWire a high speed serial bus used for both isochronous real time data transfer and asynchronous applications especially needed in multimedia and mobile phones Evolution of embedded systems and their specific characteristics Real time systems and their major design issues in brief Improved main memory technologies with their recent releases of DDR2 DDR3 Rambus DRAM and Cache DRAM widely used in all types of modern systems including large clusters and high end servers DVD optical disks and flash drives pen drives RAID a common approach to configuring multiple disk arrangements used in large server based systems A good number of problems along with their solutions on different topics after their delivery Exhaustive material with respective figures related to the entire text to illustrate many of the computer design organization and architecture issues with examples are available online at <http://crcpress.com> 9780367255732 This book serves as a textbook for graduate level courses for computer science engineering information technology electrical engineering electronics engineering computer science BCA MCA and other similar courses

Advances in Microelectronics, Embedded Systems and IoT V. V. S. S Chakravarthy, Vikrant Bhateja, Jaume Anguera, Shabana Urooj, Anumoy Ghosh, 2024-05-18 The book discusses the latest developments and outlines future trends in the fields of microelectronics electromagnetics and telecommunication It contains original research works presented at the International Conference on Microelectronics Electromagnetics and Telecommunication ICMEET 2023 organized by

Department of Electronics and Communication Engineering National Institute of Technology Mizoram India during 6 7 October 2023 The book is divided into two volumes and it covers papers written by scientists research scholars and practitioners from leading universities engineering colleges and R D institutes from all over the world and shares the latest breakthroughs in and promising solutions to the most important issues facing today s society Making the World Work Better Kevin Maney, Steve Hamm, Jeffrey O'Brien, 2011-06-10 Thomas J Watson Sr s motto for IBM was THINK and for more than a century that one little word worked overtime In Making the World Work Better The Ideas That Shaped a Century and a Company journalists Kevin Maney Steve Hamm and Jeffrey M O'Brien mark the Centennial of IBM s founding by examining how IBM has distinctly contributed to the evolution of technology and the modern corporation over the past 100 years The authors offer a fresh analysis through interviews of many key figures chronicling the Nobel Prize winning work of the company s research laboratories and uncovering rich archival material including hundreds of vintage photographs and drawings The book recounts the company s missteps as well as its successes It captures moments of high drama from the bet the business gamble on the legendary System 360 in the 1960s to the turnaround from the company s near death experience in the early 1990s The authors have shaped a narrative of discoveries struggles individual insights and lasting impact on technology business and society Taken together their essays reveal a distinctive mindset and organizational culture animated by a deeply held commitment to the hard work of progress IBM engineers and scientists invented many of the building blocks of modern information technology including the memory chip the disk drive the scanning tunneling microscope essential to nanotechnology and even new fields of mathematics IBM brought the punch card tabulator the mainframe and the personal computer into the mainstream of business and modern life IBM was the first large American company to pay all employees salaries rather than hourly wages an early champion of hiring women and minorities and a pioneer of new approaches to doing business with its model of the globally integrated enterprise And it has had a lasting impact on the course of society from enabling the US Social Security System to the space program to airline reservations modern banking and retail to many of the ways our world today works The lessons for all businesses indeed all institutions are powerful To survive and succeed over a long period you have to anticipate change and to be willing and able to continually transform But while change happens progress is deliberate IBM deliberately led by a pioneering culture and grounded in a set of core ideas came into being grew thrived nearly died transformed itself and is now charting a new path forward for its second century toward a perhaps surprising future on a planetary scale *Data Engineering Best Practices* Richard J. Schiller, David Larochelle, 2024-10-11 Explore modern data engineering techniques and best practices to build scalable efficient and future proof data processing systems across cloud platforms Key Features Architect and engineer optimized data solutions in the cloud with best practices for performance and cost effectiveness Explore design patterns and use cases to balance roles technology choices and processes for a future proof design Learn from experts to avoid common pitfalls in data engineering

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Handbook of Research on Grid Technologies and Utility Computing: Concepts for Managing Large-Scale Applications Udoh, Emmanuel, Wang, Frank
Zhigang, 2009-05-31 This book provides a compendium of terms definitions and explanations of concepts issues and trends in grid technology Provided by publisher

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