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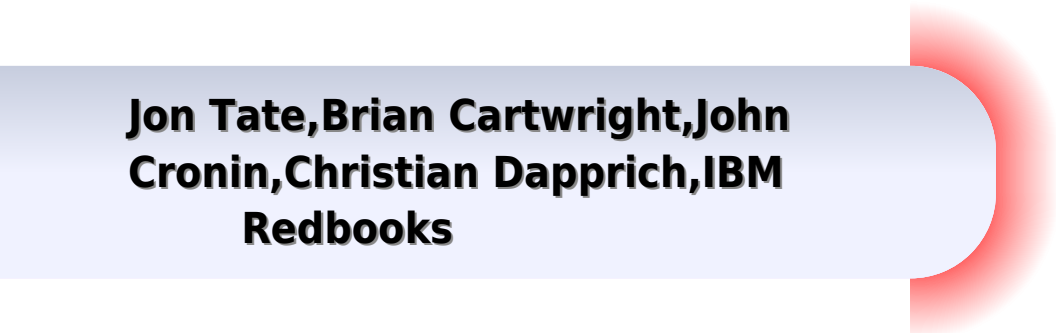
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Jon Tate,Brian Cartwright,John Cronin,Christian Dapprich,IBM Redbooks

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   IP Storage Networking Rowell Hernandez,2002   *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 System Storage N series Software Guide** Roland Tretau,Christian Fey,Michael Klimes,Steven Pemberton,Tom Provost,Danny Yang,IBM Redbooks,2014-07-31 Corporate workgroups distributed enterprises and small to medium sized companies are increasingly seeking to network and consolidate storage to improve availability share information reduce costs and protect and secure information These organizations require enterprise class solutions capable of addressing immediate storage needs cost effectively while providing an upgrade path for future requirements IBM System Storage N series storage systems and their software capabilities are designed to meet these requirements IBM System Storage N series storage systems offer an excellent solution for a broad range of deployment scenarios IBM System Storage N series storage systems function as a multiprotocol storage device that is designed to allow you to simultaneously serve both file and block level data across a single network These activities are demanding procedures that for some solutions require multiple separately managed systems The flexibility of IBM System Storage N series storage systems however allows them to address the storage needs of a wide range of organizations including distributed enterprises and data centers for midrange enterprises IBM System

Storage N series storage systems also support sites with computer and data intensive enterprise applications such as database data warehousing workgroup collaboration and messaging This IBM Redbooks publication explains the software features of the IBM System Storage N series storage systems This book also covers topics such as installation setup and administration of those software features from the IBM System Storage N series storage systems and clients and provides example scenarios   **IBM System Storage N series Reference Architecture for Virtualized Environments** Roland Tretau,Jacky Ben-Bassat,Craig Thompson,IBM Redbooks,2014-06-13 This IBM Redbooks publication provides deployment guidelines workload estimates and preferred practices for clients who want a proven IBM technology stack for virtualized VMware and Microsoft environments The result is a Reference Architecture for Virtualized Environments RAVE that uses VMware vSphere or Microsoft Hypervisor IBM System x or IBM BladeCenter server IBM System Networking and IBM System Storage N series with Clustered Data ONTAP as a storage foundation The reference architecture can be used as a foundation to create dynamic cloud solutions and make full use of underlying storage features and functions This book provides a blueprint that illustrates how clients can create a virtualized infrastructure and storage cloud to help address current and future data storage business requirements It explores the solutions that IBM offers to create a storage cloud solution addressing client needs This book also shows how the Reference Architecture for Virtualized Environments and the extensive experience of IBM in cloud computing services proven technologies and products support a Smart Storage Cloud solution that is designed for your storage optimization efforts This book is for anyone who wants to learn how to successfully deploy a virtualized environment It is also written for anyone who wants to understand how IBM addresses data storage and compute challenges with IBM System Storage N series solutions with IBM servers and networking solutions This book is suitable for IT architects business partners IBM clients storage solution integrators and IBM sales representatives   **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

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IBM SAN Survival Guide Jon Tate,Brian Cartwright,John Cronin,Christian Dapprich,IBM Redbooks,2015-08-05 As we all know large ocean going ships never collide with icebergs However occasionally life deals out some unexpected pleasures for us to cope with Surviving any disaster in life is usually a lot easier if you have prepared adequately by taking into account the likely problems solutions and their implementation In this IBM Redbooks publication we limit ourselves to those situations in which it is likely that a SAN will be deployed We present the IBM SAN portfolio of products going a little under the surface to show the fault tolerant features that they utilize and then describe solutions with all these features taken into account Each of these solutions was built on practical experience in some cases with cost in mind in some cases with no cost in mind Any well thought out SAN design will have taken every single one of these concerns into account and either formulated a solution for it or ignored it but nonetheless understanding the potential exposure With these points in mind in this book we have two objectives to position the IBM SAN products that are currently in our portfolio and to show how those products can be configured together to build a SAN that not only allows you to survive most forms of disaster but also provides performance benefits So make sure that you know what to do if you hit an iceberg   **IBM System Storage N series Clustered Data ONTAP** Roland Tretau,Christian Fey,Michal Klimes,Steven Pemberton,Tom Provost,Youn-Ho Yang,IBM Redbooks,2014-06-04 IBM System Storage N series storage systems offer an excellent solution for a broad range of deployment scenarios IBM System Storage N series storage systems function as a multiprotocol storage device that is designed to allow you to simultaneously serve both file and block level data across a single network These activities are demanding procedures that for some solutions require multiple separately managed systems The flexibility of IBM System Storage N series storage systems however allows them to address the storage needs of a wide range of organizations including distributed enterprises and data centers for midrange enterprises IBM System Storage N series storage systems

also support sites with computer and data intensive enterprise applications such as database data warehousing workgroup collaboration and messaging This IBM Redbooks publication explains the software features of the IBM System Storage N series storage systems with Clustered Data ONTAP cDOT Version 8 2 which is the first version available on the IBM System Storage N series and as of October 2013 is also the most current version available cDOT is different from previous ONTAP versions by the fact that it offers a storage solution that operates as a cluster with flexible scaling capabilities cDOT configurations allow clients to build a scale out architecture protecting their investment and allowing horizontal scaling of their environment This book also covers topics such as installation setup and administration of those software features from the IBM System Storage N series storage systems and clients and provides example scenarios **IP Storage Networking** Gary Orenstein,2003 IP Storage Networking Straight to the Core is your complete blueprint for planning deploying managing and maximizing the business value of enterprise storage Gary Orenstein introduces IP storage iSCSI and related technologies then shows how to integrate them into an overall storage strategy for maximizing availability and business agility Coverage includes architecture software infrastructure virtualization security storage policies outsourcing and measuring ROI on enterprise storage investments **IBM System Storage N series with VMware vSphere 5** Roland Tretau,Salahaldean Alamayri,Christian Prediger Appel,Joao Marcelo Barros de Almeida,Andre Luis Giglioli,William Luiz de Souza,IBM Redbooks,2013-02-28 This IBM Redbooks publication provides a basic introduction to the IBM System Storage N series virtualization and VMware 5 x It explains how to use the N series with VMware vSphere 5 environments and the benefits of doing so Examples are given on how to install and set up VMware ESXi server with the N series The IBM System Storage N series used as a storage foundation offers unified storage solutions that provide industry leading technologies in the areas of storage efficiencies instantaneous virtual machine and datastore cloning for virtual servers and virtual desktops and virtual data center backup and business continuance solutions The information provided can be also be used as a foundation to create dynamic cloud solutions making full use of underlying storage features and functions This book provides a blueprint for how clients can create a virtualized infrastructure storage cloud that will help to address current and future data storage business requirements IBM System Storage N series in conjunction with VMware vSphere 5 helps complete the virtualization hierarchy by providing both a server and storage virtualization solution Although this configuration can further assist with other areas of virtualization networks and applications these areas of virtualization are not covered in detail in this book **SAN Multiprotocol Routing: An Introduction and Implementation** Jon Tate,Steve Fodor,Jure Arzensek,IBM Redbooks,2006-11-09 This IBM Redbooks publication supersedes both IBM TotalStorage Introduction to SAN Routing SG24 7119 00 Implementing the IBM TotalStorage Multiprotocol Routers SG24 7246 00 The rapid spread and adoption of production storage area networks SANs has fuelled the need for multiprotocol routers The routers provide improved scalability security and manageability by enabling devices in separate SAN fabrics to communicate without merging fabrics

into a single large SAN fabric This capability enables clients to initially deploy separate SAN solutions at the departmental and data center levels Then clients can consolidate these separate solutions into large enterprise SAN solutions as their experience and requirements grow and change Alternatively multiprotocol routers can help to connect existing enterprise SANs for a variety of reasons For instance the introduction of Small Computer System Interface over IP iSCSI provides for the connection of low end low cost hosts to enterprise SANs The use of an Internet Protocol IP in the Fibre Channel FC environment provides for resource consolidation and disaster recovery planning over long distances And the use of FC FC routing services provides connectivity between two or more fabrics without having to merge them into a single SAN This book targets storage network administrators system designers architects and IT professionals who sell design or administer SANs It introduces you to the products concepts and technology in the IBM System Storage SAN Routing portfolio This book shows the features of each product and examples of how you can deploy and use them **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 System Storage Solutions Handbook Ezgi Coskun,Mikael Lindström,Maciej Olejniczak,Oliver Stark,Megan Gilge,IBM Redbooks,2016-07-15 The IBM System Storage Solutions Handbook helps you solve your current and future data storage business requirements It helps you achieve enhanced storage efficiency by design to allow managed cost capacity of growth greater mobility and stronger control over storage performance and management It describes the most current IBM storage products including the IBM SpectrumTM family IBM FlashSystem disk and tape as well as virtualized solutions such IBM Storage Cloud This IBM Redbooks publication provides overviews and information about the most current IBM System Storage products It shows how IBM delivers the right mix of products for nearly every aspect of business continuance and business efficiency IBM storage products can help you store safeguard retrieve and share your data This book is intended as a reference for basic and

comprehensive information about the IBM Storage products portfolio It provides a starting point for establishing your own enterprise storage environment This book describes the IBM Storage products as of March 2016 **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 *Grid and Cooperative Computing - GCC 2004 Workshops* Hai Jin,Yi Pan,Nong Xiao,Jianhua Sun,2011-04-08 Welcome to the proceedings of GCC2004 and the city of Wuhan Grid computing has become a mainstream research area in computer science and the GCC conference has become one of the premier forums for presentation of new and exciting research in all aspectsofgridandcooperativecomputing Theprogramcommitteeispleasedtopresent the proceedings of the 3rd International Conference on Grid and Cooperative Comp ing GCC2004 which comprises a collection of excellent technical papers posters workshops and keynote speeches The papers accepted cover a wide range of exciting topics including resource grid and service grid information grid and knowledge grid grid monitoring managementand organizationtools grid portal grid service Web s vices and their QoS service orchestration grid middleware and toolkits software glue technologies grid security innovative grid applications advanced resource reservation andscheduling performanceevaluationandmodeling computer supportedcooperative work P2P computing automatic computing and meta information management The conference continues to grow and this year a record total of 581 manuscripts including workshop submissions were submitted for consideration Expecting this growth the size of the program committee was increased from 50 members for GCC 2003 for 70 in GCC 2004 Relevant differences from previous editions of the conf ence it is worth mentioning a signi cant increase in the number of papers submitted by authors from outside China and the acceptance rate was much lower than for p vious GCC conferences From the 427 papers submitted to the main conference

the program committee selected only 96 regular papers for oral presentation and 62 short papers for poster presentation in the program *IBM and Cisco: Together for a World Class Data Center* Jon Tate,Pall Beck,Peter Clemens,Santiago Freitas,Jeff Gatz,Michele Girola,Jason Gmitter,Holger Mueller,Ray O'Hanlon,Veerendra Para,Joe Robinson,Andy Sholomon,Jason Walker,IBM Redbooks,2013-07-31 This IBM Redbooks publication is an IBM and Cisco collaboration that articulates how IBM and Cisco can bring the benefits of their respective companies to the modern data center It documents the architectures solutions and benefits that can be achieved by implementing a data center based on IBM server storage and integrated systems with the broader Cisco network We describe how to design a state of the art data center and networking infrastructure combining Cisco and IBM solutions The objective is to provide a reference guide for customers looking to build an infrastructure that is optimized for virtualization is highly available is interoperable and is efficient in terms of power and space consumption It will explain the technologies used to build the infrastructure provide use cases and give guidance on deployments , **IBM Spectrum Scale and IBM Elastic Storage System Network Guide** Kedar Karmarkar,John Lewars,Sandeep R. Patil,Sandeep Naik,Kevin Gildea,Rakesh Chutke,Larry Coyne,IBM Redbooks,2021-02-17 High speed I O workloads are moving away from the SAN to Ethernet and IBM Spectrum Scale is pushing the network limits The IBM Spectrum Scale team discovered that many infrastructure Ethernet networks that were used for years to support various applications are not designed to provide a high performance data path concurrently to many clients from many servers IBM Spectrum Scale is not the first product to use Ethernet for storage access Technologies such as Fibre Channel over Ethernet FCoE scale out NAS and IP connected storage iSCSI and others use Ethernet though IBM Spectrum Scale as the leader in parallel I O performance which provides the best performance and value when used on a high performance network This IBM Redpaper publication is based on lessons that were learned in the field by deploying IBM Spectrum Scale on Ethernet and InfiniBand networks This IBM Redpaper publication answers several questions such as How can I prepare my network for high performance storage How do I know when I am ready and How can I tell what is wrong when deploying IBM Spectrum Scale and IBM Elastic Storage Server ESS This document can help IT architects get the design correct from the beginning of the process It also can help the IBM Spectrum Scale administrator work effectively with the networking team to quickly resolve issues *IBM Flex System Products and Technology for Power Systems* David Watts,Alexander Grechnev,Dave Ridley,IBM Redbooks,2014-12-10 To meet today s complex and ever changing business demands you need a solid foundation of compute storage networking and software resources This system must be simple to deploy and be able to quickly and automatically adapt to changing conditions You also need to be able to take advantage of broad expertise and proven guidelines in systems management applications hardware maintenance and more The IBM PureFlex System combines no compromise system designs along with built in expertise and integrates them into complete optimized solutions At the heart of PureFlex System is the IBM Flex System Enterprise Chassis This fully integrated infrastructure platform supports a

mix of compute storage and networking resources to meet the demands of your applications The solution is easily scalable with the addition of another chassis with the required nodes With the IBM Flex System Manager multiple chassis can be monitored from a single panel The 14 node 10U chassis delivers high speed performance complete with integrated servers storage and networking This flexible chassis is simple to deploy now and to scale to meet your needs in the future This IBM Redbooks publication describes IBM PureFlex System and IBM Flex System available from IBM It highlights the technology and features of the chassis compute nodes management features and connectivity options Guidance is provided about every major component and about networking and storage connectivity This book is intended for customers IBM Business Partners and IBM employees who want to know the details about the new family of products It assumes that you have a basic understanding of blade server concepts and general IT knowledge **Nonblocking Electronic and Photonic Switching Fabrics** Wojciech Kabacinski,2005-12-06 Switching fabrics first appeared in telephone exchanges where there was a need to interconnect many pairs of telephones installed in the network Due to the large number of connected subscribers and int exchange links switching fabrics in telephone exchanges have to serve a great number of input and output ports Because of the scale large switching fabrics were constructed from smaller ones The way of building switching fabrics from elements of smaller capacity and different characteristics of switching fabrics topologies has been for a long time a rich area of theoretical research The seminal work is due to C Clos 23 who first considered multistage strict sense nonblocking switching networks and V E Benes 9 who first introduced the mathemati cal theory of switching networks From that time many research was conducted in this field Switching fabrics found its application not only in telecommunication starting from telephone exchanges through ATM switches and IP routers to optical cross connect systems and optical packet switches but also in other areas of knowledge like computation and control Theory of switching fabrics becomes also a part of applied mathematics Results of studies carried out by researchers from these area were published in numerous papers and some books This book is intended for people interested in the switching the ory and especially combinatorial characteristics of switching networks It contains a considerable amount of already known results Some of them are presented in more detailed form other are only mentioned

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