

Using the System Storage N Series with IBM Tivoli Storage Manager

Backing up the IBM System Storage N series

Configuring IBM Tivoli Storage Manager with the N series

Taking NDMP operations to the next level



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Redbooks

Using The Ibm System Storage N Series With Ibm Tivoli Storage Manager

**Roland Tretau, JinSu Kim, Beatriz
Nolte, Gary Nunn, Falk Schneider, IBM
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Using The Ibm System Storage N Series With Ibm Tivoli Storage Manager:

Using the IBM System Storage N series with IBM Tivoli Storage Manager Alex Osuna, Roland Tretau, IBM Redbooks, 2010-04-29 IBM as a result of its recent product introduction of the IBM System Storage™ N series has become more tightly integrated with network attached storage NAS exploiting the backup and recovery features of the N series and Network Appliance™ storage systems This IBM Redbooks publication provides detailed descriptions and setup instructions practical examples and best practices for backing up the IBM System Storage N series using the IBM Tivoli Storage Manager This book includes descriptions and instructions for using the latest enhancements made to IBM Tivoli Storage Manager specifically for the IBM System Storage N series and Network Appliance storage systems You will learn how to configure and set up the IBM System Storage N series and IBM Tivoli Storage Manager Version 5.3 and 6.1 using NDMP backup and restore functions We address the following topics Configuring the N series for Network Data Management Protocol NDMP usage Using the IBM Tivoli Storage Manager software Backing up qtrees Single folder backup Single file folder restore Restoring using NDMP via GUI and command line interface Restoring from NDMP backup to an alternative site location on N series systems Integrating with Snapshot technology and SnapVault Using SnapShot differencing Using SnapMirror to Tape

Using the IBM System Storage N Series with IBM Tivoli Storage Manager Alex Osuna, 2010 [IBM System Storage N series with VMware vSphere 5](#) Roland Tretau, Salahaldeen 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 [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 with VMware vSphere 4.1*

Roland Tretau,Christian Prediger Appel,IBM Redbooks,2012-04-09 This IBM Redbooks publication provides a basic introduction to the IBM System Storage N series virtualization and VMware It explains how to use the N series with VMware vSphere 4 environments and the benefits of doing so Examples are given on how to install and set up VMware ESXi server with the N series This edition includes information about the Virtual Storage Console VSC which is another N series software product that works with VMware VSC provides local backup and recovery capability You have the option to replicate backups to a remote storage system by using SnapMirror relationships Backups can be performed on individual virtual machines or on datastores with the option of updating the SnapMirror relationship as part of the backup on a per job basis Similarly restores can be performed at a data store level or individual virtual machine level IBM System Storage N series in conjunction with VMware vSphere 4 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 *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 **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 **Using the System Storage N Series with IBM Tivoli Storage Manager** Alex Osuna,2006 **IBM System Storage N series Data Compression and Deduplication: Data ONTAP 8.1 Operating in 7-Mode** Larry Coyne,Sandra Moulton,Carlos Alvarez,IBM Redbooks,2012-07-28 One of the biggest challenges for companies today continues to be the cost of data storage which is a large and rapidly growing IT expense IBM System Storage N series incorporates a variety of storage efficiency technologies to help organizations lower this cost This IBM Redbooks publication focuses on two key components N series deduplication and data compression In this book we describe in detail how to implement and use both technologies and provide information on preferred practices operational considerations and troubleshooting N series data compression and deduplication technologies can work

independently or together to achieve optimal savings We explain how N series data compression and deduplication work with Data ONTAP 8.1 operating in 7 Mode We help you decide when to use compression and deduplication based on applications and data types to balance space saving against potential overhead Optimization and usage considerations are included to help you determine your space savings

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 Business Continuity: Part 2 Solutions Guide Charlotte Brooks, Clem Leung, Aslam Mirza, Curtis Neal, Yin Lei Qiu, John Sing, Francis TH Wong, Ian R Wright, IBM Redbooks, 2009-06-09 This IBM Redbooks publication is a companion to IBM System Storage Business Continuity Part 1 Planning Guide SG24 6547 We assume that the reader of this book has understood the concepts of Business Continuity planning described in that book In this book we explore IBM System Storage solutions for Business Continuity within the three segments of Continuous Availability Rapid Recovery and Backup and Restore We position these solutions within the Business Continuity tiers We describe in general the solutions available in each segment then present some more detail on many of the products In each case the reader is pointed to sources of more information

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

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to solve customer issues with the most effective technology Whether it is source or target inline or post hardware or software disk or tape IBM has a solution with the technology that best solves the problem This IBM Redbooks publication covers the current deduplication solutions that IBM has to offer IBM ProtecTIER Gateway and Appliance IBM Tivoli Storage Manager IBM System Storage N series Deduplication **IBM SmartCloud Virtual Storage Center** Karen Orlando, Joseph Gatti, Joao Marcos Leite, Thirumalainambi Muruges, Danijel Paulin, Socheat Sou, IBM Redbooks, 2015-03-06 IBM SmartCloud Virtual Storage Center provides efficient virtualization and management of heterogeneous storage systems It facilitates migration to an agile cloud architecture that can optimize storage availability and performance while helping to reduce costs IBM SmartCloud Virtual Storage Center VSC helps convert existing storage to IBM Smarter Storage providing more room for data growth and simplified storage administration This IBM Redbooks publication gives an overview of the concepts of software defined environment SDE and software defined storage SDS and how they work together with VSC It explores the architecture components and interfaces providing details of VSC and how to use it It also includes practical scenarios and use cases helpful for client VSC business environments with a focus on the following topics Introductory concepts VSC components and available integrations Storage management component of VSC Storage virtualization component of VSC Application aware data protection component of VSC VSC storage provisioning VSC storage optimization This book is primarily for storage administrators users who are responsible for maintaining IT and business infrastructures and anyone who wants to learn more about IBM SmartCloud Virtual Storage Center **IBM Systems Director 6.3 Best Practices** Rufus Credle, Srikanth Aithal, Nicolas Bour, Stephane Bourdeaud, Tomi Mannikainen, Olaf Menke, Juan P Fernandez Sabate, IBM Redbooks, 2013-11-08 This IBM Redbooks publication describes the positioning of the IBM Systems Director in the complete management range It also compares the IBM Systems Director with the IBM Flex Systems Manager FSM and describes the environments for which each tool is best suited This publication helps you plan install tailor and configure the IBM Systems Director on different platforms It contains information about required system resources and which network ports are used It shows how to use the Workload Estimator to select the appropriate hardware for IBM Systems Director server and provides information about the IBM Systems Director Editions Best practices are covered for the basic management tasks that are available in IBM Systems Director including how to perform discovery how to collect inventory on discovered resources how to deploy agent driver and firmware updates how to manage hardware events and other miscellaneous tasks An overview of best practices is provided for using IBM Systems Director VMControl™ Systems Director VMControl is a cross platform product that assists you in rapidly deploying virtual appliances to create virtual servers that are configured with the operating system and software applications that you want It also enables you to group resources into system pools which enable you to centrally manage and control the different workloads in your environment The following plug in offerings are described Energy monitoring and management features offered by IBM Systems Director Active Energy Manager™ along

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VersaStack Solution by Cisco and IBM with IBM DB2, IBM Spectrum Control, and IBM

Spectrum Protect Jon Tate,Vadi Bhatt,Sanjeev Naldurgkar,Filip Van Den Neucker,Asher Pemberton,IBM Redbooks,2016-02-02 Dynamic organizations want to accelerate growth while reducing costs To do so they must speed the deployment of business applications and adapt quickly to any changes in priorities Organizations require an IT infrastructure to be easy efficient and versatile The VersaStack solution by Cisco and IBM can help you accelerate the deployment of your datacenters It reduces costs by more efficiently managing information and resources while maintaining your ability to adapt to business change The VersaStack solution combines the innovation of Cisco Unified Computing System Cisco UCS Integrated Infrastructure with the efficiency of the IBM Storwize storage system The Cisco UCS Integrated Infrastructure includes the Cisco UCS Cisco Nexus and Cisco MDS switches and Cisco UCS Director The IBM Storwize V7000 storage system enhances virtual environments with its Data Virtualization IBM Real time Compression™ and IBM Easy Tier features These features deliver extraordinary levels of performance and efficiency The VersaStack solution is Cisco Application Centric Infrastructure ACI ready Your IT team can build deploy secure and maintain applications through a more agile framework Cisco Intercloud Fabric capabilities help enable the creation of open and highly secure solutions for the hybrid cloud These solutions accelerate your IT transformation while delivering dramatic improvements in operational efficiency and simplicity Cisco and IBM are global leaders in the IT industry The VersaStack solution gives you the opportunity to take advantage of integrated infrastructure solutions that are targeted at enterprise applications analytics and cloud solutions The VersaStack solution is backed by Cisco Validated Designs CVDs to provide faster delivery of applications greater IT efficiency and less risk This IBM Redbooks publication is aimed at experienced storage administrators that are tasked with deploying a VersaStack solution with IBM DB2 High Availability DB2 HA IBM Spectrum™ Protect and IBM Spectrum Control™

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