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You have installed and performed the basic customization of IBM® Tivoli® Storage Productivity Center. You have collected performance data and generated reports. Now it's time to learn the best ways to use the software to manage your storage infrastructure. This IBM Redbooks® publication shows the best way to set up the software, based on your storage environment, and then how to use it to manage your infrastructure. It includes experiences from IBM clients and staff and covers the following topics: Architectural design techniques (sizing your environment, single versus multiple installations, physical versus virtual servers, deployment in a large, existing storage infrastructure) Database and server considerations (database backup and restoration methods and scripts, using IBM Data Studio Client for database administration, database placement and relocation, repository sizing and tuning, moving and migrating the server) Alerting, monitoring and reporting (monitoring thresholds and alerts, performance management and analysis of reports, real-time performance monitoring for IBM SAN Volume Controller) Security considerations (Tivoli Storage Productivity Center internal user IDs, user authentication configuration methods, how and why to set up and change passwords, configuring, querying, and testing LDAP and Microsoft Active Directory) Health checks (server health and logs, health and recoverability of IBM DB2® databases, using the Database Maintenance tool) Data management techniques (how to spot unusual growth incidents, scripted actions for Tivoli Storage manager and hierarchical storage management) This book is for storage administrators who are responsible for the performance and growth of the IT storage infrastructure. This publication was updated in January 2017 to reflect the latest support information.

The need to archive information is on the rise, driven by content and data growth, regulatory compliance, legal discovery, and data protection requirements. The IBM® Smart Archive strategy is a comprehensive, unified, and integrated archive strategy that combines IBM software, systems, and service capabilities that are designed to help organizations extract value and to gain new intelligence from information by collecting, organizing, analyzing, and using that information. IBM Enterprise Content Management (ECM) products and offerings combined with the IBM Information Archive device provides the type of end-to-end Smart Archive solution that is a critical component of the IBM Smart Archive strategy. This IBM Redpaper™ publication focuses on the benefit and technical details of the integration of ECM products and offering with the Information Archive device. We explain the need and concept behind the IBM Smart Archive strategy, provide an overview

of the Information Archive device and ECM products and offerings, and discuss how integrating them can benefit an organization. The technical details that we provide include integrating the Information Archive device with the following ECM products and offerings: -- IBM FileNet® P8 -- IBM Content Manager -- IBM Content Manager OnDemand The Information Archive for Email, Files, and eDiscovery solution comes with the preintegrated and pre-configured Information Archive device and the preinstalled ECM software. The paper introduces technical sales people and IT specialists to the IBM Smart Archive strategy and the integration of Information Archive and ECM products and offerings. At the same time, it provides IT specialists specific guidance about performing the integrations.

IBM® Scale Out Network Attached Storage (SONAS) is a scale out network-attached storage offering that is designed to manage vast repositories of information in enterprise environments that require large capacities, high levels of performance, and high availability. SONAS provides a range of reliable, scalable storage solutions for various storage requirements. These capabilities are achieved by using network access protocols such as Network File System (NFS), Common Internet File System (CIFS), Hypertext Transfer Protocol Secure (HTTPS), File Transfer Protocol (FTP), and Secure Copy Protocol (SCP). Using built-in RAID technologies, all data is well-protected with options to add more protection through mirroring, replication, snapshots, and backup. These storage systems are also characterized by simple management interfaces that make installation, administration, and troubleshooting uncomplicated and straightforward. This IBM Redbooks® publication is the companion to IBM SONAS Best Practices, SG24-8051. It is intended for storage administrators who have ordered their SONAS solution and are ready to install, customize, and use it. It provides backup and availability scenarios information about configuration and troubleshooting. This book applies to IBM SONAS Version 1.5.5. It is useful for earlier releases of IBM SONAS as well.

What are the disruptive IBM Tivoli Storage Manager technologies that enable our organization to radically change our business processes? What prevents me from making the changes I know will make me a more effective IBM Tivoli Storage Manager leader? What new services of functionality will be implemented next with IBM Tivoli Storage Manager ? What are the short and long-term IBM Tivoli Storage Manager goals? Is the impact that IBM Tivoli Storage Manager has shown? This valuable IBM Tivoli Storage Manager self-assessment will make you the established IBM Tivoli Storage Manager domain veteran by revealing just what you need to know to be fluent and ready for any IBM Tivoli Storage Manager challenge. How do I reduce the effort in the IBM Tivoli

Storage Manager work to be done to get problems solved? How can I ensure that plans of action include every IBM Tivoli Storage Manager task and that every IBM Tivoli Storage Manager outcome is in place? How will I save time investigating strategic and tactical options and ensuring IBM Tivoli Storage Manager opportunity costs are low? How can I deliver tailored IBM Tivoli Storage Manager advice instantly with structured going-forward plans? There's no better guide through these mind-expanding questions than acclaimed best-selling author Gerard Blokdyk. Blokdyk ensures all IBM Tivoli Storage Manager essentials are covered, from every angle: the IBM Tivoli Storage Manager self-assessment shows succinctly and clearly that what needs to be clarified to organize the business/project activities and processes so that IBM Tivoli Storage Manager outcomes are achieved. Contains extensive criteria grounded in past and current successful projects and activities by experienced IBM Tivoli Storage Manager practitioners. Their mastery, combined with the uncommon elegance of the self-assessment, provides its superior value to you in knowing how to ensure the outcome of any efforts in IBM Tivoli Storage Manager are maximized with professional results. Your purchase includes access details to the IBM Tivoli Storage Manager self-assessment dashboard download which gives you your dynamically prioritized projects-ready tool and shows your organization exactly what to do next. Your exclusive instant access details can be found in your book.

The superabundance of data that is created by today's businesses is making storage a strategic investment priority for companies of all sizes. As storage takes precedence, the following major initiatives emerge: Flatten and converge your network: IBM® takes an open, standards-based approach to implement the latest advances in the flat, converged data center network designs of today. IBM Storage solutions enable clients to deploy a high-speed, low-latency Unified Fabric Architecture. Optimize and automate virtualization: Advanced virtualization awareness reduces the cost and complexity of deploying physical and virtual data center infrastructure. Simplify management: IBM data center networks are easy to deploy, maintain, scale, and virtualize, delivering the foundation of consolidated operations for dynamic infrastructure management. Storage is no longer an afterthought. Too much is at stake. Companies are searching for more ways to efficiently manage expanding volumes of data, and to make that data accessible throughout the enterprise. This demand is propelling the move of storage into the network. Also, the increasing complexity of managing large numbers of storage devices and vast amounts of data is driving greater business value into software and services. With current estimates of the amount of data to be managed and made available increasing at 60% each year, this outlook is where a storage area network (SAN) enters the arena. SANs are the leading storage infrastructure for the global economy of today. SANs offer simplified storage management, scalability, flexibility, and availability; and improved data access, movement, and backup. Welcome to the cognitive era. The smarter data center with the improved economics of IT can be achieved by connecting servers and storage with a high-speed and intelligent network fabric. A smarter data center that hosts IBM Storage solutions can provide an environment that is smarter, faster, greener, open, and easy to manage. This IBM® Redbooks® publication provides an introduction to SAN and Ethernet networking, and how these networks help to achieve a smarter data center. This book is intended for people who are not very familiar with IT, or who are just starting out in the IT world. Until now, the only way to capture, store, and effectively retain constantly growing amounts of enterprise data was to add more disk space to the storage infrastructure, an approach that can

quickly become cost-prohibitive as information volumes continue to grow and capital budgets for infrastructure do not. In this IBM® Redbooks® publication, we introduce data deduplication, which has emerged as a key technology in dramatically reducing the amount of, and therefore the cost associated with storing, large amounts of data. Deduplication is the art of intelligently reducing storage needs through the elimination of redundant data so that only one instance of a data set is actually stored. Deduplication reduces data an order of magnitude better than common data compression techniques. IBM has the broadest portfolio of deduplication solutions in the industry, giving us the freedom 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

This is a practical hands-on book with clear instructions and lot of code examples. It takes a simple approach, guiding you through different architectural topics using realistic sample projects

This IBM® Redbooks® publication will help you install, tailor, and configure IBM ProtecTIER® products with IBM Tivoli® Storage Manager to harness the performance and the power of the two products working together as a data protection solution. This book goes beyond the preferred practices of each product and provides in-depth explanations of each of the items that are configurable, and the underlying reasons behind the suggestions. This book provides enough detailed information to allow an administrator to make the correct choices about which methods to use when implementing both products to meet and to exceed the business requirements. This publication provides descriptions and guidance about the following topics: Terminology and concepts of ProtecTIER and Tivoli Storage Manager Planning for ProtecTIER to run with Tivoli Storage Manager Setup and configuration of the IBM ProtecTIER device as a storage pool in the Tivoli Storage Manager environment, primarily as a Virtual Tape Library (VTL) interface, with a description as a File System Interface (FSI) Day-to-day administration of ProtecTIER when it is used in a Tivoli Storage Manager environment Overview of how to plan for disaster recovery in a ProtecTIER and Tivoli Storage Manager environment Monitoring and problem solving: How a system administrator can review ProtecTIER logs and Tivoli Storage Manager server logs to identify the source of problems Hints, tips, and use cases for ProtecTIER and Tivoli Storage Manager administrators This book is intended for storage administrators and architects who have ordered and installed IBM ProtecTIER Products and want to implement Tivoli Storage Manager as part of a data protection solution. This book is also intended for anyone that wants to learn more about applying and using the benefits of ProtecTIER running with Tivoli Storage Manager.

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.

This IBM® Redbooks® publication covers IBM TS7700 R5.2. The IBM TS7700 is part of a family of IBM Enterprise tape products. This book is intended for system architects and storage administrators who want to integrate their storage systems for optimal operation. Building on 25 years of experience, the R5.2 release includes many features that enable improved performance, usability, and security. Highlights include IBM TS7700 Advanced Object Store, an all flash TS7770, grid resiliency enhancements, and Logical WORM retention. By using the same hierarchical storage techniques, the TS7700 (TS7770 and TS7760) can also off load to object storage. Because object storage is cloud-based and accessible from different regions, the TS7700 Cloud Storage Tier support essentially allows the cloud to be an extension of the grid. As of this writing, the TS7700C supports the ability to off load to IBM Cloud® Object Storage, Amazon S3, and RSTOR. This publication explains features and concepts that are specific to the IBM TS7700 as of release R5.2. The R5.2 microcode level provides IBM TS7700 Cloud Storage Tier enhancements, IBM DS8000® Object Storage enhancements, Management Interface dual control security, and other smaller enhancements. The R5.2 microcode level can be installed on the IBM TS7770 and IBM TS7760 models only. Note: The latest Release 5.2 was split into two phases: R5.2 Phase 1 (also referred to as and) R5.2 Phase 2 (and R) TS7700 provides tape virtualization for the IBM z environment. Off loading to physical tape behind a TS7700 is used by hundreds of organizations around the world. Tape virtualization can help satisfy the following requirements in a data processing environment. New and existing capabilities of the TS7700 5.2.2 release includes the following highlights: Eight-way Grid Cloud, which consists of up to three generations of TS7700 Synchronous and asynchronous replication of virtual tape and TCT objects Grid access to all logical volume and object data that is independent of where it exists An all-flash TS7770 option for improved performance Full Advanced Object Store Grid Cloud support of DS8000 Transparent Cloud Tier Full AES256 encryption for data that is in-flight and at-rest Tight integration with IBM Z® and DFSMS policy management DS8000 Object Store AES256 in-flight encryption and compression Regulatory compliance through Logical WORM and LWORM Retention support Cloud Storage Tier support for archive, logical volume version, and disaster recovery Optional integration with physical tape 16 Gb IBM FICON® throughput that exceeds 5 GBps per TS7700 cluster Grid Resiliency Support with Control Unit Initiated Reconfiguration (CUIR) support IBM Z hosts view up to 3,968 common devices per TS7700 grid TS7770 Cache On-demand feature that is based capacity licensing TS7770 support of SSD within the VED server The TS7700T writes data by policy to physical tape through attachment to high-capacity, high-performance IBM TS1160, IBM TS1150, and IBM TS1140 tape drives that are installed in an IBM TS4500 or TS3500 tape library. The TS7770 models are based on high-performance and redundant IBM POWER9™ technology. They provide improved performance for most IBM Z tape workloads when compared to the previous generations of IBM TS7700.

This IBM® Redbooks® publication highlights TS7700 Virtualization Engine Release 2.0. It is intended for system architects who want to integrate their storage systems for smoother operation. The IBM Virtualization Engine TS7700 offers a modular, scalable,

and high-performing architecture for mainframe tape virtualization for the IBM System z® environment. It integrates 3592 Tape Drives, high-performance disks, and the new IBM System p® server into a storage hierarchy. This storage hierarchy is managed by robust storage management firmware with extensive self-management capability. It includes the following advanced functions: Policy management to control physical volume pooling Cache management Dual copy, including across a grid network Copy mode control The TS7700 Virtualization Engine offers enhanced statistical reporting. It also includes a standards-based management interface for TS7700 Virtualization Engine management. The new IBM Virtualization Engine TS7700 Release 2.0 introduces the next generation of TS7700 Virtualization Engine servers for System z tape: IBM Virtualization Engine TS7720 Server Model VEB IBM Virtualization Engine TS7740 Server Model V07 These Virtualization Engines are based on IBM POWER7® technology. They offer improved performance for most System z tape workloads compared to the first generation of TS7700 Virtualization Engine servers.

This IBM® Redbooks® publication covers IBM TS7700 R4.2. The IBM TS7700 is part of a family of IBM Enterprise tape products. This book is intended for system architects and storage administrators who want to integrate their storage systems for optimal operation. Building on over 20 years of virtual tape experience, the TS7760 now supports the ability to store virtual tape volumes in an object store. The TS7700 has supported off loading to physical tape for over two decades. Off loading to physical tape behind a TS7700 is utilized by hundreds of organizations around the world. Using the same hierarchical storage techniques, the TS7700 can also off load to object storage. Given object storage is cloud based and accessible from different regions, the TS7760 Cloud Storage Tier support essentially allows the cloud to be an extension of the grid. As of the release of this document, the TS7760C supports the ability to off load to IBM Cloud Object Storage as well as Amazon S3. To learn about the TS7760 cloud storage tier function, planning, implementation, best practices, and support see IBM Redpaper IBM TS7760 R4.2 Cloud Storage Tier Guide, redp-5514 at:

<http://www.redbooks.ibm.com/abstracts/redp5514.html> The IBM TS7700 offers a modular, scalable, and high-performance architecture for mainframe tape virtualization for the IBM Z® environment. It is a fully integrated, tiered storage hierarchy of disk and tape. This storage hierarchy is managed by robust storage management microcode with extensive self-management capability. It includes the following advanced functions: Improved reliability and resiliency Reduction in the time that is needed for the backup and restore process Reduction of services downtime that is caused by physical tape drive and library outages Reduction in cost, time, and complexity by moving primary workloads to virtual tape More efficient procedures for managing daily backup and restore processing Infrastructure simplification through reduction of the number of physical tape libraries, drives, and media TS7700 delivers the following new capabilities: TS7760C supports the ability to off load to IBM Cloud Object Storage as well as Amazon S3 8-way Grid Cloud consisting of any generation of TS7700 Synchronous and asynchronous replication Tight integration with IBM Z and DFSMS policy management Optional Transparent Cloud Tiering Optional integration with physical tape Cumulative 16Gb FICON throughput up to 4.8GB/s 8 IBM Z hosts view up to 496 8 equivalent devices Grid access to all data independent of where it exists The TS7760T writes data by policy to physical tape through attachment to high-capacity, high-performance IBM TS1150 and IBM TS1140 tape drives installed in an IBM TS4500 or TS3500 tape library. The TS7760 models are based on high-performance and redundant IBM POWER8® technology. They provide improved performance for most IBM Z tape workloads when com-

pared to the previous generations of IBM TS7700.

This IBM® Redbooks® publication is a study guide for IBM Tivoli® Storage Productivity Center Version 4.1. It is targeted for professionals who want to obtain certification as an IBM Certified Deployment Professional - Tivoli Storage Productivity Center V4.1. This Certification, offered through the Professional Certification Program from IBM, is designed to validate the skills required of technical professionals who perform installation, configuration, administration, and problem determination of IBM Tivoli Storage Productivity Center V4.1, and demonstrates the features and functions of this product to the end user. This book provides a combination of theory and practical experience necessary for a general understanding of the subject matter. It also provides links to questions that can help in the evaluation of personal progress and provide familiarity with the types of questions that will be encountered in the exam. This book does not replace practical experience, nor is it designed to be a stand-alone guide for any subject. Instead, it is an effective tool that, when combined with educational activities and experience, can be a useful preparation guide for the exam.

This IBM® Redpaper™ publication describes IBM Spectrum Scale™ for Linux on z Systems™. This paper helps you install and configure IBM Spectrum Scale (formerly GPFST™) in a disaster recovery configuration. Scenario testing is described for various events: Site failure, storage failure, node failure. Recovery procedures from each tested scenario are provided. This paper also provides an installation and configuration scenario for saving data stored in a Spectrum Scale file system by using IBM Spectrum Protect™ integration features. Multi-node backup usage is described.

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.

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 resource 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. Tivoli Storage Manager is the premier storage management solution for mixed platform environments. --

This IBM® Redbooks® publication gives an overview of Cloud solutions, followed by detailed information and usage scenarios for IBM CloudBurst® in a System x® environment. Cloud computing can be defined as a style of computing in which dynamically scalable resources, such as CPU, storage, or bandwidth, are provided as a service over the Internet. Cloud computing represents a massively scalable, self-service delivery model where processing, storage, networking, and applications can be accessed as services over the Internet. Enterprises can adopt cloud models to improve employee productivity, deploy new products and services faster and reduce operating costs—starting with workloads, such as development and test, virtual desktop, collaboration, and analytics. IBM provides a scalable variety of cloud solutions to meet these needs. This IBM Redbooks publication helps you to tailor an IBM CloudBurst installation on System x to meet virtualized computing requirements in a private cloud environment. This book is intended for IT support personnel who are responsible for customizing IBM CloudBurst to meet business cloud computing objectives. A disruption to your critical business processes could leave the entire business exposed. Today's organizations face ever-escalating customer demands and expectations. There is no room for downtime. You need to provide your customers with continuous service because your customers have a lot of choices. Your competitors are standing ready to take your place. As you work hard to grow your business, you face the challenge of keeping your business running without a glitch. To remain competitive, you need a resilient IT infrastructure. This IBM Redbooks publication introduces the importance of Business Continuity in today's IT environments. It provides a comprehensive guide to planning for IT Business Continuity and can help you design and select an IT Business Continuity solution that is right for your business environment. We discuss the concepts, procedures, and solution selection for Business Continuity in detail, including the essential set of IT Business Continuity requirements that you need to identify a solution. We also present a rigorous Business Continuity Solution Selection Methodology that includes a sample Business Continuity workshop with step-by-step instructions in defining requirements. This book is meant as a central resource book for IT Business Continuity planning and design. The companion title to this book, IBM System Storage Business Continuity: Part 2 Solutions Guide, SG24-6548, describes detailed product solutions in the System Storage Resiliency Portfolio.

IBM® Spectrum Control (Spectrum Control), a member of the IBM Spectrum™ Family of products, is the next-generation data management solution for software-defined environments (SDEs). With support for block, file, object workloads, and software-defined storage and predictive analytics, and automated and advanced monitoring to identify proactively storage performance problems, Spectrum Control enables administrators to provide efficient management for heterogeneous storage environments. IBM Spectrum Control™ (formerly IBM Tivoli® Storage Productivity Center) delivers a complete set of functions to manage IBM Spectrum Virtualize™, IBM Spectrum Accelerate™, and IBM Spectrum Scale™ storage infrastructures, and traditional IBM and select third-party storage hardware systems. This IBM Redbooks® publication provides practical examples and use cases that can be deployed with IBM Spectrum Control Standard Edition, with an overview of IBM Spectrum Control Advanced Edition. This book complements the Spectrum Control IBM Knowledge Center, which is referenced for product details, and for installation and implementation de-

tails throughout this book. You can find this resource at the following website: IBM Spectrum Control Knowledge Center Also provided are descriptions and an architectural overview of the IBM Spectrum Family, highlighting Spectrum Control, as integrated into software-defined storage environments. This publication is intended for storage administrators, clients who are responsible for maintaining IT and business infrastructures, and anyone who wants to learn more about employing Spectrum Control and Spectrum Control Standard Edition.

IBM Backup Recovery and Media Services (BRMS) for the IBM eServer iSeries server is the strategic solution for managing backup, recovery, media, and storage in an iSeries-only environment. IBM Tivoli Storage Manager server and client products are the IBM tools that correspond to backup, recovery, media, and storage management functions in a heterogeneous (multiplatform) environment. IBM offers a unique integrated solution by combining the proven performance of BRMS on the iSeries server with the multiplatform capabilities of IBM Tivoli Storage Manager. In a multiplatform environment that includes iSeries servers, you can use the two products independently of each other. However, by integrating the two products, you achieve a much more powerful set of capabilities to back up and recover your mission-critical data and applications. Based on iSeries V5R2 BRMS and V5.2 of IBM Tivoli Storage Manager, this IBM Redbooks publication provides: An overview of BRMS and IBM Tivoli Storage Manager terminology, constructs, and capabilities Cookbook examples to get BRMS and IBM Tivoli Storage Manager server up and running on your iSeries server, as well as to set up your iSeries server as the BRMS Application Client to an IBM Tivoli Storage Manager server running on the iSeries server Troubleshooting guidance and tips for integrating BRMS and IBM Tivoli Storage Manager server on the iSeries server "As is" iSeries user programs and OS/400 commands to enable an iSeries system operator to manage integrated BRMS and IBM Tivoli Storage Manager server functions through a single user interface.

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®, 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

Note: The IBM TS7700 Release 4.0 Guide, SG24-8366 is available at: <http://www.redbooks.ibm.com/abstracts/sg248366.html> IBM® TS7700 is a family of mainframe virtual tape solutions that optimize data protection and business continuance for IBM z System-STM data. Through the use of virtualization and disk cache, the TS7700 family operates at disk speeds while maintaining compatibility with existing tape operations. Its fully integrated tiered storage hierarchy takes advantage of both disk and tape technologies to deliver performance for active data and best economics for inactive and archive data. This IBM Redbooks® publication describes the TS7700 R3.3 architecture, planning, migration, implementation, and operations. The latest TS7700 family of z Systems tape virtualization is offered as two models: IBM TS7720 features encryption-capable high-capacity cache that uses 3 TB SAS disk drives with RAID 6, which can scale to large capacities with the highest level of data protection. IBM TS7740 features encryption-capable 600 GB SAS drives with RAID 6 protection. Both models write data by policy to physical tape through attachment to high-capacity, high-performance IBM TS1150 and earlier IBM 3592 model tape drives that are installed in IBM TS3500 tape libraries. Physical tape support is optional on TS7720. TS7700 R3.3 also supports external key management for disk-based encryption by using IBM Security Key Lifecycle Manager. This book intended for system architects who want to integrate their storage systems for smoother operation.

Organizations of all sizes are faced with the challenge of managing massive volumes of increasingly valuable data. However, storing this data can be costly, and extracting value from the data is becoming more and more difficult. IT organizations have limited resources, but must stay responsive to dynamic environments and act quickly to consolidate, simplify, and optimize their IT infrastructures. The IBM® Storwize® V3700 system provides a solution that is affordable, easy to use, and self-optimizing, which enables organizations to overcome these storage challenges. Storwize V3700 delivers efficient, entry-level configurations that are specifically designed to meet the needs of small and midsize businesses. Designed to provide organizations with the ability to consolidate and share data at an affordable price, Storwize V3700 offers advanced software capabilities that are usually found in more expensive systems. Built on innovative IBM technology, Storwize V3700 addresses the block storage requirements of small and midsize organizations, Storwize V3700 is designed to accommodate the most common storage network technologies. This design enables easy implementation and management. Storwize V3700 includes the following features: Web-based GUI provides point-and-click management capabilities. Internal disk storage virtualization enables rapid, flexible provisioning and simple configuration changes. Thin provisioning enables applications to grow dynamically, but only use space they actually need. Enables simple data migration from external storage to Storwize V3700 storage (one-way from another storage device). Remote Mirror creates copies of data at remote locations for disaster recovery. IBM FlashCopy® creates instant application copies for backup or application testing. This IBM Redbooks® publication is intended for pre-sales and post-sales technical support professionals and storage administrators. The concepts in this book also relate to the IBM Storwize V3500. This book was written at a software level of version 7 release 4.

This IBM® Redbooks® publication provides best practice guidance for planning, installing, configuring, and employing the IBM

TS7600 ProtecTIER® family of products. It provides the latest best practices for the practical application of ProtecTIER Software Version 3.4. This latest release introduces the new ProtecTIER Enterprise Edition TS7650G DD6 model high performance server. This book also includes information about the revolutionary and patented IBM HyperFactor® deduplication engine, along with other data storage efficiency techniques, such as compression and defragmentation. The IBM System Storage® TS7650G ProtecTIER Deduplication Gateway and the IBM System Storage TS7620 ProtecTIER Deduplication Appliance Express are disk-based data storage systems: The Virtual Tape Library (VTL) interface is the foundation of ProtecTIER and emulates traditional automated tape libraries. For your existing ProtecTIER solution, this guide provides best practices and suggestions to boost the performance and the effectiveness of data deduplication with regards to your application platforms for your VTL and FSI (systems prior to version 3.4). When you build a ProtecTIER data deduplication environment, this guide can help IT architects and solution designers plan for the best option and scenario for data deduplication for their environments. This book can help you optimize your deduplication ratio, while reducing the hardware, power and cooling, and management costs. This Redbooks publication provides expertise that was gained from an IBM ProtecTIER System Client Technical Specialist (CTS), Development, and Quality Assurance teams. This planning should be done by the Sales Representative or IBM Business Partner, with the help of an IBM System CTS or IBM Solution Architect.

This IBM® Redbooks® publication describes the IBM solution for data deduplication, the IBM System Storage® TS7650G IBM ProtecTIER® Deduplication Gateway, and the IBM TS7620 ProtecTIER Deduplication Appliance Express. This solution consists of the IBM System Storage ProtecTIER Enterprise Edition V3.3 software and the IBM System Storage TS7600 family of products. They are designed to address the disk-based data protection needs of enterprise data centers. We describe the components that make up IBM System Storage TS7600 with ProtecTIER and provide extensive planning and sizing guidance that enables you to determine your requirements and the correct configuration for your environment. We then guide you through the basic setup steps on the system and on the host. We also describe all operational tasks that are required during normal day-to-day operation or when upgrading your TS7600 products. All available models of the ProtecTIER deduplication system can now be ordered in a configuration to operate in one of the following modes for which we provide setup, configuration and usage guidelines for your business needs: The Virtual Tape Library (VTL) interface is the foundation of ProtecTIER and emulates traditional automated tape libraries. The Symantec NetBackup OpenStorage (OST) API can be integrated with Symantec NetBackup to provide backup-to-disk without having to emulate traditional tape libraries. The newly available File System Interface (FSI) supports Common Internet File System (CIFS) and Network File System (NFS) as a backup target. This publication is intended for system programmers, storage administrators, hardware and software planners, and other IT personnel that are involved in planning, implementing, and the use of the IBM deduplication solution. It also is intended for anyone seeking detailed technical information about the IBM System Storage TS7600 with ProtecTIER.

What is the purpose of IBM Tivoli Storage Manager in relation to the mission? What may be the consequences for the performance of an organization if all stakeholders are not consulted regarding IBM Tivoli Storage Manager? How much does IBM Tivoli Storage Manager help? Is the IBM Tivoli Storage Manager organization completing tasks effectively and efficiently? Has the direction changed at all during the course of IBM Tivoli Storage Manager? If

so, when did it change and why? This valuable IBM Tivoli Storage Manager self-assessment will make you the reliable IBM Tivoli Storage Manager domain auditor by revealing just what you need to know to be fluent and ready for any IBM Tivoli Storage Manager challenge. How do I reduce the effort in the IBM Tivoli Storage Manager work to be done to get problems solved? How can I ensure that plans of action include every IBM Tivoli Storage Manager task and that every IBM Tivoli Storage Manager outcome is in place? How will I save time investigating strategic and tactical options and ensuring IBM Tivoli Storage Manager costs are low? How can I deliver tailored IBM Tivoli Storage Manager advice instantly with structured going-forward plans? There's no better guide through these mind-expanding questions than acclaimed best-selling author Gerard Blokdyk. Blokdyk ensures all IBM Tivoli Storage Manager essentials are covered, from every angle: the IBM Tivoli Storage Manager self-assessment shows succinctly and clearly that what needs to be clarified to organize the required activities and processes so that IBM Tivoli Storage Manager outcomes are achieved. Contains extensive criteria grounded in past and current successful projects and activities by experienced IBM Tivoli Storage Manager practitioners. Their mastery, combined with the easy elegance of the self-assessment, provides its superior value to you in knowing how to ensure the outcome of any efforts in IBM Tivoli Storage Manager are maximized with professional results. Your purchase includes access details to the IBM Tivoli Storage Manager self-assessment dashboard download which gives you your dynamically prioritized projects-ready tool and shows you exactly what to do next. Your exclusive instant access details can be found in your book.

In this IBM® Redbooks® publication, we give an overview of different data management topics related to a typical SAP® data center. The intrinsic functionality of SAP is not designed to completely handle all the tasks of a data center by itself, but the SAP system offers several interface possibilities to attach external tools to it to accomplish this task. We explain SAP basic concepts and the issues with SAP data management. We introduce Tivoli® Storage Manager and all of its products that are related to SAP data management. We provide some comparison between database backup and recovery tools. Finally, we discuss data archiving using IBM DB2® CommonStore for SAP, and discuss high availability requirements and disaster recovery considerations. The second part of this book discusses a practical implementation of SAP backup and recovery with Tivoli Storage Manager. We implement this setup on two separate SAP systems: one running DB2 and the other running Oracle® database. We also implement LAN-free backup and FlashCopy® scenarios. In the sample implementation section, we show many different tasks, such as backup and restore, database recovery, backup monitoring, and tuning. We also cover some advanced backup/availability considerations, such as split mirror backup and standby databases. This book helps individuals that operate an SAP environment to devise a strategy for a sound and comprehensive data backup solution using the IBM Tivoli Storage Management product family.

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 protec-

tion 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® PowerVM® virtualization technology is a combination of hardware and software that supports and manages the virtual environments on POWER5-, POWER5+, IBM POWER6®, and IBM POWER7®-based systems. PowerVM is available on IBM Power Systems™, and IBM BladeCenter® servers as optional Editions, and is supported by the IBM AIX®, IBM i, and Linux operating systems. You can use this set of comprehensive systems technologies and services to aggregate and manage resources by using a consolidated, logical view. Deploying PowerVM virtualization and IBM Power Systems offers you the following benefits: Lower energy costs through server consolidation Reduced cost of your existing infrastructure Better management of the growth, complexity, and risk of your infrastructure This IBM Redbooks® publication is an extension of IBM PowerVM Virtualization Introduction and Configuration, SG24-7940. It provides an organized view of best practices for managing and monitoring your PowerVM environment concerning virtualized resources managed by the Virtual I/O

Server.

This IBM® Redpaper™ publication helps you to install, tailor, configure, and use IBM Tivoli® Storage Manager for Virtual Environments - Data Protection for VMware. The features of Tivoli Storage Manager for Virtual Environments - Data Protection for VMware are described. Scenarios are provided for implementation of Tivoli Storage Manager Virtual Environment to protect virtual machines in several environments. This publication includes answers to common implementation errors and questions you might have that are related to the implementation of Data Protection for VMware.

Backing up SAP software environments is increasingly challenging in today's 24x7 enterprises. Even more challenging is restoring these environments. Applications and databases grow ever larger, putting increasing strain on the management infrastructure. Using hardware-assisted copy mechanisms to perform fast backups and restores is one way to address these issues. Tivoli Storage Manager, along with associated products, allows you to leverage FlashCopy to perform fast backups, almost "instant" restores, as well as database cloning for testing and other purposes. These applications are fully integrated with SAP software in DB2 UDB and Oracle environments, providing reliable, intelligent techniques for data protection. This IBM Redbooks publication will help you plan, configure, and run IBM Tivoli Storage Manager for Advanced Copy Services and associated applications in your SAP software environments.