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IBM System Storage DS3500 Introduction and Implementation Guide IBM Redbooks

This book presents the proceedings of International Conference on Emerging Research in Computing, Information, Communication and Applications, ERCICA 2020. The conference provides an interdisciplinary forum for researchers, professional engineers and scientists, educators and technologists to discuss, debate and promote research and technology in the upcoming areas of computing, information, communication and their applications. The book discusses these emerging research areas, providing a valuable resource for researchers and practicing engineers alike.

IBM Real-time Compression in IBM SAN Volume Controller and IBM Storwize Springer Nature

This book constitutes the proceedings of the 5th Latin American Conference, CARLA 2018, held in Bucaramanga, Colombia, in September 2018. The 24 papers presented in this volume were carefully reviewed and selected from 38 submissions. They are organized in topical sections on: Artificial Intelligence; Accelerators; Applications; Performance Evaluation; Platforms and Infrastructures; Cloud Computing.

IBM High Performance Computing Cluster Health Check IBM Redbooks

This IBM Redbooks® Product Guide gives an overview of the features and functions that are available with the IBM DS8880 models running microcode Release 8.51 (DS8000 License Machine Code 8.8.51.xx.xx). The IBM DS8880 architecture relies on powerful IBM POWER8® processor-based servers that manage the cache to streamline disk input/output (I/O), maximizing performance and throughput. These capabilities are further enhanced with the availability of the second generation of high-performance flash enclosures (HPFE Gen-2). The IBM DS8888, DS8886, and DS8884 models excel at supporting the IBM Z Enterprise server and IBM Power server environments, offering many synergy features.

Implementing the IBM Storwize IBM Redbooks

This IBM® Redbooks® publication provides both introductory information and technical details about the IBM System z® Personal Development Tool (IBM zPDT®), which produces a small System z environment suitable for application development. zPDT is a PC Linux application. When zPDT is installed (on Linux), normal System z operating systems (such as IBM z/OS®) can be run on it. zPDT provides the basic System z architecture and emulated IBM 3390

disk drives, 3270 interfaces, OSA interfaces, and so on. The systems that are discussed in this document are complex. They have elements of Linux (for the underlying PC machine), IBM z/Architecture® (for the core zPDT elements), System z I/O functions (for emulated I/O devices), z/OS (the most common System z operating system), and various applications and subsystems under z/OS. The reader is assumed to be familiar with general concepts and terminology of System z hardware and software elements, and with basic PC Linux characteristics. This book provides the primary documentation for zPDT.

High Performance Computing IBM Redbooks

xREF: System x Reference IBM Redbooks

IBM Reference Configuration for VMware on System x with SmartCloud Entry IBM Redbooks

This IBM® Platform Computing Solutions Redbooks® publication is the first book to describe each of the available offerings that are part of the IBM portfolio of Cloud, analytics, and High Performance Computing (HPC) solutions for our clients. This IBM Redbooks publication delivers descriptions of the available offerings from IBM Platform Computing that address challenges for our clients in each industry. We include a few implementation and testing scenarios with selected solutions. This publication helps strengthen the position of IBM Platform Computing solutions with a well-defined and documented deployment model within an IBM System x® environment. This deployment model offers clients a planned foundation for dynamic cloud infrastructure, provisioning, large-scale parallel HPC application development, cluster management, and grid applications. This IBM publication is targeted to IT specialists, IT architects, support personnel, and clients. This book is intended for anyone who wants information about how IBM Platform Computing solutions use IBM to provide a wide array of client solutions.

IBM Technical Computing Clouds xREF: System x Reference

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.

IBM System Storage Solutions Handbook IBM Redbooks

This IBM® Redbooks® Product Guide is an overview of the main characteristics, features, and technology that are used in IBM FlashSystem® A9000R Model 415 and Model 425, with IBM FlashSystem A9000R Software V12.3.1. IBM FlashSystem A9000R is a grid-scale, all-flash storage platform designed for industry leaders with rapidly growing cloud storage and mixed workload environments to help drive your business into the cognitive era. FlashSystem A9000R provides consistent, extreme performance for dynamic data at scale, integrating the microsecond latency and high availability of IBM FlashCore® technology. The rack-based offering comes integrated with the world class software features that are built with IBM Spectrum™ Accelerate. For example, comprehensive data reduction, including inline pattern removal, data deduplication, and compression, helps lower total cost of ownership (TCO) while the grid architecture and IBM Hyper-Scale framework simplify and automate storage administration. The A9000R features always on data reduction and now offers intelligent capacity management for deduplication. Ready for the cloud and well-suited for large deployments, FlashSystem A9000R delivers predictable high performance and ultra-low latency, even under heavy workloads with full data reduction enabled. As a result, the grid-scale architecture maintains this performance by automatically self-optimizing workloads across all storage resources without manual intervention.

OSA-Express Implementation Guide IBM Redbooks

Echinoderms, Volume 151, the latest release in the Methods in Cell Biology series, highlights advances in the field, with this update presenting chapters on Echinoderm Genome Databases, analysis of gene regulatory networks, using ATAC-seq and RNA-seq to increase resolution in GRN connectivity, multiplex cis-regulatory analysis, experimental approaches GRN/signal pathways, BACs, analysis of chromatin accessibility using ATAC-seq, analysis of sea urchin proteins /Click IT, CRISPR/Cas9-mediated genome editing in sea urchins, super-resolution and in toto imaging of echinoderm embryos, and methods for analysis of intracellular ion signals in sperm, eggs and embryos. Presents clear, concise protocols provided by experts who have established the echinoderms as a model systems Highlights new advances in the field, with this update presenting interesting chapters on echinoderms

Real World Ibm System Z Stories IBM Redbooks

This edition applies to FlashSystem A9000 and A9000R, Model 415 and 425, with system software Version 12.3 IBM® FlashSystem A9000 and IBM FlashSystem® A9000R provide copy functions suited for various data protection scenarios that enable you to enhance your business continuance, disaster recovery, data migration, and backup solutions. These functions allow point-in-time copies, known as snapshots, and also include remote copy capabilities in either synchronous or asynchronous mode. Furthermore, support for IBM Hyper-Scale Mobility enables a seamless migration of IBM FlashSystem A9000 or A9000R volumes to another with no interference to the host. Starting with software level V12.1, the IBM HyperSwap® feature delivers always-on, high availability (HA) storage service for storage volumes in a production environment. Starting with version 12.2, asynchronous replication between the IBM XIV® Gen3

and FlashSystem A9000 or A9000R is supported. Starting with Version 12.2.1, Hyper-Scale Mobility is enabled between XIV Gen3 and FlashSystem A9000 or A9000R. Version 12.3 offers Multi-site replication solution that entails both High Availability (HA) and Disaster Recovery (DR)function by combining HyperSwap and Asynchronous replication to a third site. This IBM Redpaper™ publication is intended for anyone who needs a detailed and practical understanding of the IBM FlashSystem A9000 and IBM FlashSystem A9000R replication and business continuity functions.

Digital Color Imaging IBM Redbooks

A Time of Eclipse contains all the setting material from Eclipse Phase first edition. No rules included! Ideal for use with Transhumanity's Fate.

IBM FlashSystem A9000 and A9000R Business Continuity Solutions IBM Redbooks

This IBM® Redbooks® publication highlights IBM Technical Computing as a flexible infrastructure for clients looking to reduce capital and operational expenditures, optimize energy usage, or re-use the infrastructure. This book strengthens IBM SmartCloud® solutions, in particular IBM Technical Computing clouds, with a well-defined and documented deployment model within an IBM System x® or an IBM Flex System™. This provides clients with a cost-effective, highly scalable, robust solution with a planned foundation for scaling, capacity, resilience, optimization, automation, and monitoring. This book is targeted toward technical professionals (consultants, technical support staff, IT Architects, and IT Specialists) responsible for providing cloud-computing solutions and support.

PEAK James Turnbull

IBM® SmartCloud™ Entry provides a fully integrated software stack for transforming a virtualized environment to a cloud environment. The intuitive self-service portal allows users to get up and running quickly. Built-in workload metering and additional tools enable tight controls and planning. The IBM Reference Configuration for VMware on IBM System x® with SmartCloud Entry provides an affordable, easy to deploy, private cloud architecture with configurations based on leading-edge technology from IBM, VMware, and Juniper Networks. The reference configuration is for midsized companies that need simpler and affordable IT solutions, without compromising on functionality. IBM and VMware, world leaders in enterprise-class IT solutions, are now bringing IT solutions tailored to the midmarket. This IBM Redpaper™ publication provides setup, configuration, and deployment details for the reference configuration and is intended for IT professionals who are familiar with software and hardware setup and configuration.

IBM DS8880 Product Guide (Release 8.51) IBM Redbooks

This IBM® Redbooks® Product Guide is an overview of the main characteristics, features, and technology that are used in IBM FlashSystem® A9000Model 425, with IBM FlashSystem A9000 Software V12.3.1. IBM FlashSystem A9000 storage system uses the IBM FlashCore® technology to help realize higher capacity and improved response times over disk-based systems and other competing flash and solid-state drive (SSD)-based storage. The extreme performance of IBM FlashCore technology with a grid architecture and comprehensive data reduction creates one powerful solution. Whether you are a service provider who requires highly efficient management or an enterprise that is implementing cloud on a budget, FlashSystem A9000 provides consistent and predictable microsecond response times and the simplicity that you need. The A9000 features always on data reduction and now offers intelligent capacity management for deduplication. As a cloud optimized solution, FlashSystem A9000 suits the requirements of public and private cloud providers who require features, such as inline data deduplication, multi-tenancy, and quality of service. It also uses powerful software-defined storage capabilities from IBM Spectrum™ Accelerate, such as Hyper-Scale technology, VMware, and storage container integration.

IBM PowerVM Virtualization Introduction and Configuration IBM Redbooks

Updated for Docker Community Edition v18.09! Docker book designed for SysAdmins, SREs, Operations staff, Developers and DevOps who are interested in deploying the open source container service Docker. In this book, we'll walk you through installing, deploying, managing, and extending Docker. We're going to do that by first introducing you to the basics of Docker and its components. Then we'll start to use Docker to build containers and services to perform a variety of tasks. We're going to take you through the development lifecycle, from testing to production, and see where Docker fits in and how it can make your life easier. We'll make use of Docker to build test environments for new projects, demonstrate how to integrate Docker with continuous integration workflow, and then how to build application services and platforms. Finally, we'll show you how to use Docker's API and how to extend Docker yourself. We'll teach you how to:

- * Install Docker.
- * Take your first steps with a Docker container.
- * Build Docker images.
- * Manage and share Docker images.
- * Run and manage more complex Docker containers.
- * Deploy Docker containers as part of your testing pipeline.
- * Build multi-container applications and environments.
- * Learn about orchestration using Compose and Swarm for the orchestration of Docker containers and Consul for service discovery.
- * Explore the Docker API.
- * Getting Help and Extending Docker.

zPDT Sysplex Extensions - 2020 IBM Redbooks

Nothing breeds success like success. In this book, you will find detailed case studies of organizations that have improved their business success by applying solutions based on the IBM System z family of mainframe computers. By gaining insight into their problems, solutions, and results, you will discover how to better meet your own business needs and fuel business success. Real World SOA Stories includes dozens of case studies from many different industries including banking, computer services, education, energy & utilities, financial services, government, healthcare, industrial products, insurance, professional services, retail, travel & transportation, and more. The real-world business solutions highlighted will allow you to survey the latest IBM offerings including IBM WebSphere, DB2, SOA, Linux, Rational, IMS, CICS, Tivoli, z/OS, AIX, z/VM, Red Hat Enterprise Linux, ACI Proactive Risk Manager, Cognos, HATS, Content Manager, Lotus, IFL, SAP, InfoSphere, and more. When you buy this print edition, you also gain access to the online version which includes many links to videos and more detail about each case study. You can easily share the content in the online version with colleagues via email or social networks. This combination printed book and online version is just the right mix to help you improve your own business results. Real World IBM System z Stories helps you:

- * Learn how to increase business success from the real-world experiences of others.
- * Gain insight by seeing what other businesses in your industry and geography are doing with technology.
- * Survey the latest business solutions available for IBM mainframe environments.
- * See how your business can build on existing IBM mainframe infrastructure to add more business value.
- * Gain access to the online version with additional links to more content and video case studies.
- * Share this information with one click via email and social networks.

Discovering management IBM Redbooks

This IBM® Redbooks® publication describes the basic installation processes of Linux for z Systems™ on an IBM zPDT® base. It is intended for readers who are not familiar with IBM z Systems or with the zPDT product. This book assume the reader is familiar with Linux on Intel-compatible platforms. This book provides basic introductions to necessary z Systems and zPDT topics, and proceeds in a cookbook manner. This book is not intended for readers who are already familiar with these topics.

IBM FlashSystem A9000 and A9000R Architecture and Implementation (Version 12.3.1) IBM Redbooks

This IBM® Redbooks® publication will help you to install, tailor, and configure the Open Systems Adapter (OSA) features that are available on IBM zEnterprise® servers. It focuses on the hardware installation and the software definitions that are necessary to provide connectivity to LAN environments. This information will help you with planning and system setup. This book also includes helpful utilities and commands for monitoring and managing the OSA features. This information will be helpful to systems engineers, network administrators, and system programmers who plan for

and install OSA features. The reader is expected to have a good understanding of IBM System z® hardware, Hardware Configuration Definition (HCD) or the input/output configuration program (IOCP), Open Systems Adapter Support Facility (OSA/SF), Systems Network Architecture/Advanced Peer-to-Peer Networking (SNA/APPN), and TCP/IP protocol.

[IBM FlashSystem A9000R Product Guide \(Version 12.3.1\)](#) IBM Redbooks This IBM® Redpaper™ publication describes the adapter-based virtualization capabilities that are being deployed in high-end IBM POWER7+™ processor-based servers. Peripheral Component Interconnect Express (PCIe) single root I/O virtualization (SR-IOV) is a virtualization technology on IBM Power Systems servers. SR-IOV allows multiple logical partitions (LPARs) to share a PCIe adapter with little or no run time involvement of a hypervisor or other virtualization intermediary. SR-IOV does not replace the existing virtualization capabilities that are offered as part of the IBM PowerVM® offerings. Rather, SR-IOV compliments them with additional capabilities. This paper describes many aspects of the SR-IOV technology, including: A comparison of SR-IOV with standard virtualization technology Overall benefits of SR-IOV Architectural overview of SR-IOV Planning requirements SR-IOV deployment models that use standard I/O virtualization Configuring the adapter for dedicated or shared modes Tips for maintaining and troubleshooting your system Scenarios for configuring your system This paper is directed to clients, IBM Business Partners, and system administrators who are involved with planning, deploying, configuring, and maintaining key virtualization technologies.

IBM Platform Computing Solutions IBM Redbooks

This IBM® Redbooks® publication provides information about aspects of performing infrastructure health checks, such as checking the configuration and verifying the functionality of the common subsystems (nodes or servers, switch fabric, parallel file system, job management, problem areas, and so on). This IBM Redbooks publication documents how to monitor the overall health check of the cluster infrastructure, to deliver technical computing clients cost-effective, highly scalable, and robust solutions. This IBM Redbooks publication is targeted toward technical professionals (consultants, technical support staff, IT Architects, and IT Specialists) responsible for delivering cost-effective Technical Computing and IBM High Performance Computing (HPC) solutions to optimize business results, product development, and scientific discoveries. This book provides a broad understanding of a new architecture.