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The aim of this IBM Redbooks publication is to provide a technical reference for IT system administrators in organizations that are considering a migration from Sun Solaris to IBM AIX 5L-based systems. This book presents a system administrator view of the technical differences that exist and the methods that are necessary to complete a successful migration to AIX 5L-based systems. This book is designed primarily as a reference for experienced Sun Solaris 8 or 9 system administrators who will be working with AIX 5L. This book is not an AIX 5L administration how-to book for system administrators who are beginners, but rather a guide for experienced administrators who have to translate a given Solaris system administration task to AIX 5L.

The Fibre Channel Association is a group of companies involved in developing devices and technologies used with Fibre Channel, a very high-speed bus technology capable of bi-directional data transfer at rates in excess of one gigabit per second. Describes how to use Fibre Channel technology to connect between storage devices and network servers for maximum data transfer. Authoring association is a group of companies involved in developing devices and technologies used with Fibre Channel. Discusses cutting edge technology capable of bi-directional data transfer at rates in excess of one gigabit per second.

This IBM® Redbooks® publication helps you plan, install, configure, and manage Copy Services on the IBM DS8000® operating in an IBM Z® or Open Systems environment. This book helps you design and implement a new Copy Services installation or migrate from an existing installation. It includes hints and tips to maximize the effectiveness of your installation, and information about tools and products to automate Copy Services functions. It is intended for anyone who needs a detailed and practical understanding of the DS8000 Copy Services. This edition is an update for the DS8900 Release 9.1. Note that the Safeguarded Copy feature is covered in IBM DS8000 Safeguarded Copy, REDP-5506.

This IBM® Redbooks® publication addresses topics to help answer customers' complex high availability requirements to help maximize systems availability and resources, and provide documentation to transfer the how-to-skills to the worldwide sales and support teams. This publication helps strengthen the position of the IBM PowerHA® SystemMirror® solution with a well-defined and documented deployment models within an IBM Power Systems™ virtualized environment, providing customers a planned foundation for business resilient infrastructure solutions. This book describes documentation, and other resources available to help the technical teams provide business resilience solutions and support with the IBM PowerHA SystemMirror Standard and Enterprise Editions on IBM Power Systems. This publication targets technical professionals (consultants, technical support staff, IT Architects, and IT Specialists) responsible for providing high availability solutions and support with IBM PowerHA SystemMirror Standard and Enterprise Editions on IBM Power Systems.

This IBM® Redbooks® publication describes the IBM Storage Area Network and IBM SAN Volume Controller Stretched Cluster solution when combined with PowerVM® and PowerHA®. We describe guidelines, settings, and the implementation steps that are necessary to achieve a successful implementation. This book is for administrators who are familiar with the SAN, IBM SAN Volume Controller, and IBM PowerVM and PowerHA Systems.

This IBM® Redbooks® publication provides an overview of IBM Copy Services Manager (CSM) for IBM Z and open systems, and documents a set of scenarios for using IBM Copy Services manager to automate and manage replication tasks based on IBM Storage. This book reviews and explains the usage of copy services functions and describes how these functions are implemented in IBM Copy Services Manager. IBM Copy Services Manager key concepts, architecture, session types and usage, and new functionality as of IBM Copy Services Manager version 6.1 are also described.

Enterprise Network Testing Testing Throughout the Network Lifecycle to Maximize Availability and Performance Andy Sholomon, CCIE® No. 15179 Tom Kunath, CCIE No. 1679 The complete guide to using testing to reduce risk and downtime in advanced enterprise networks. Testing has become crucial to meeting enterprise expectations of near-zero network downtime. Enterprise Network Testing is the first comprehensive guide to all facets of enterprise network testing. Cisco enterprise consultants Andy Sholomon and Tom Kunath offer a complete blueprint and best-practice methodologies for testing any new network system, product, solution, or advanced technology. Sholomon and Kunath begin by explaining why it is important to test and how network professionals can leverage structured system testing to meet specific business goals. Then, drawing on their extensive experience with enterprise clients, they present several detailed case studies. Through real-world examples, you learn how to test architectural “proofs of concept,” specific network features, network readiness for use, migration processes, security, and more. Enterprise Network Testing contains easy-to-adapt reference test plans for branches, WANs/MANs, data centers, and campuses. The authors also offer specific guidance on testing many key network technologies, including MPLS/VPN, QoS, VoIP, video, IPsec VPNs, advanced routing (OSPF, EIGRP, BGP), and Data Center Fabrics. § Understand why, when, and how you should test your network § Use testing to discover critical network design flaws § Incorporate structured systems testing into enterprise architecture strategy § Utilize testing to improve decision-making throughout the network lifecycle § Develop an effective testing organization and lab facility § Choose and use test services providers § Scope, plan, and manage network test assignments § nLeverage the best commercial, free, and IOS test tools § Successfully execute test plans, including crucial low-level details § Minimize the equipment required to test large-scale networks § Identify gaps in network readiness § Validate and refine device configurations § Certify new hardware, operating systems, and software features § Test data center performance and scalability § Leverage test labs for hands-on technology training This book is part of the Networking Technology Series from Cisco Press®, which offers networking professionals valuable information for constructing efficient networks, understanding new technologies, and building successful careers.

Every year, datacenter managers must deliver more services faster, with greater flexibility. They must efficiently handle soaring amounts of data, and unprecedented levels of complexity. And they must do all this with lower budgets and fewer resources. Datacenter virtualization with VMware's vSphere® 5 is the best way to achieve these goals and to accelerate your transition to cloud services. VMware vSphere® 5: Building a Virtual Datacenter brings together all the practical knowledge you need to evaluate, plan, implement, and manage vSphere 5 in your datacenter environment. Top datacenter virtualization consultants Eric Maillé and René-François Mennecier begin by introducing vSphere 5 from the viewpoint of the datacenter manager and professional. They present essential definitions, advantages, and functions; review vSphere 5's architecture; and introduce core components such as vCenter Server and ESXi 5.0. Next, Maillé and Mennecier turn to implementation, presenting detailed examples, schemas, and best practices drawn from their extensive experience. They share practical insights into budgeting, scheduling, and planning; choosing the right architecture; and integrating vSphere with existing datacenter elements, including servers, storage, clusters, network infrastructure, and business continuity plans. They conclude with a start-to-finish case study: a datacenter virtualization project designed to support specific business objectives. Coverage includes • Assessing the potential benefits of datacenter virtualization in your environment • Organizing and managing a smooth migration to the virtualized datacenter • Anticipating specific challenges and risks associated with datacenter virtualization • Making tradeoffs to optimize stability, elasticity, scalability, and cost • Choosing the best installation/configuration options for your environment • Effectively linking vSphere 5 virtualization to existing datacenter elements • Driving more value from vSphere 5's powerful new datacenter features • Providing storage to efficiently support your hosted VMs, now and in the future • Managing limited memory and other server constraints • Leveraging new options for service continuity and high availability •

Using backup architecture as a lever to reduce costs

This IBM® Redbooks® publication describes the IBM Storage Area Network and IBM SAN Volume Controller Stretched Cluster solution when combined with VMware. We describe guidelines, settings, and implementation steps necessary to achieve a satisfactory implementation. Business continuity and continuous application availability are among the top requirements for many organizations today. Advances in virtualization, storage, and networking have made enhanced business continuity possible. Information technology solutions can now be designed to manage both planned and unplanned outages, and the flexibility and cost efficiencies available from cloud computing models. IBM has designed a solution that offers significant functionality for maintaining business continuity in a VMware environment. This functionality provides the capability to dynamically move applications across data centers without interruption to those applications. The live application mobility across data centers relies on these products and technology: The industry-proven VMware Metro vMotion IBM System Storage® SAN Volume Controller Stretched Cluster solution A Layer 2 IP Network and storage networking infrastructure for high performance traffic management DC interconnect

Cyber-bullying, sexting, and the effects that violent video games have on children are widely discussed and debated. With a renowned international group of researchers and scholars, the Second Edition of the Handbook of Children and the Media covers these topics, is updated with cutting-edge research, and includes comprehensive analysis of the field for students and scholars. This revision examines the social and cognitive effects of new media, such as Facebook, Twitter, YouTube, Skype, iPads, and cell phones, and how children are using this new technology. This book summarizes the latest research on children and the media and suggests directions for future research. This book also attempts to provide students with a deliberate examination of how children use, enjoy, learn from, and are advantaged or disadvantaged by regular exposure to television, new technologies, and other electronic media.

IBM® PowerHA® SystemMirror® for i is the IBM high-availability (HA), disk-based clustering solution for the IBM i operating system. When PowerHA for i is combined with IBM i clustering technology, it delivers a complete HA and disaster-recovery (DR) solution for business applications that are running in an IBM i environment. You can use PowerHA for i to support HA capabilities with either native disk storage, IBM DS8000® storage servers, or IBM Storwize® storage servers. This IBM Redbooks® publication gives a broad understanding of PowerHA for i and provides a general introduction to clustering technology, independent auxiliary storage pools (IASPs), PowerHA SystemMirror products, and the PowerHA architecture. This book is part of a four-book volume set that gives you a complete understanding of PowerHA for i and its use of native disk storage, IBM DS8000 storage servers, or IBM Storwize storage servers. The following IBM Redbooks publications are part of this PowerHA for i volume set: IBM PowerHA SystemMirror for i: Using DS8000, SG24-8403 IBM PowerHA SystemMirror for i: Using IBM Storwize, SG24-8402. IBM PowerHA SystemMirror for i: Using Geographic Mirroring, SG24-8401 Important: The information that is presented in this volume set is for technical consultants, technical support staff, IT architects, and IT specialists who are responsible for providing HA and support for IBM i solutions. If you are new to HA, first review the information that is presented in this book to get a general understanding of clustering technology, IASPs, and the PowerHA architecture. You can then select the appropriate follow-on book based on the storage solutions that you are planning to use.

IBM® PowerHA® SystemMirror® for i is the IBM high-availability (HA), disk-based clustering solution for the IBM i operating system. When PowerHA for i is combined with IBM i clustering technology, PowerHA for i delivers a complete HA and disaster-recovery (DR) solution for business applications that are running in an IBM i environment. Use PowerHA for i to support HA capabilities with either native disk storage, IBM DS8000® storage servers, or IBM Storwize® storage servers. This IBM Redbooks® publication helps you to install, tailor, and configure IBM PowerHA SystemMirror for i to use with geographic mirroring and native storage. This publication provides you with planning information to prepare to use the various PowerHA offerings with geographic mirroring with IBM i native storage. It also provides implementation and management information. It provides guidance about troubleshooting these solutions and identifies the documentation that you need to capture before you call IBM Support. This book is part of a four-book set that gives you a complete understanding of PowerHA for i with native disk storage, IBM DS8000 storage servers, or IBM Storwize storage servers. The following IBM Redbooks publications are part of this PowerHA for i volume set: IBM PowerHA SystemMirror for i: Preparation, SG24-8400 IBM PowerHA SystemMirror for i: Using DS8000, SG24-8403 IBM PowerHA SystemMirror for i: Using IBM Storwize, SG24-8402 Important: The information that is presented in this volume set is for technical consultants, technical support staff, IT architects, and IT specialists who are responsible for providing HA and support for IBM i solutions. If you are new to HA, you need to first review the information that is presented in the first book of this volume set, IBM PowerHA SystemMirror for i: Preparation (Volume 1 of 4), SG24-8400, to obtain a general understanding of clustering technology, independent auxiliary storage pools (IASPs), and the PowerHA architecture.

Understand and implement VMware Virtual SAN: the heart of tomorrow's Software-Defined Datacenter (SDDC) VMware's breakthrough Software-Defined Datacenter (SDDC) initiative can help you virtualize your entire datacenter: compute, storage, networks, and associated services. Central to SDDC is VMware Virtual SAN (VSAN): a fully distributed storage architecture seamlessly integrated into the hypervisor and capable of scaling to meet any enterprise storage requirement. Now, the leaders of VMware's wildly popular Virtual SAN previews have written the first authoritative guide to this pivotal technology. You'll learn what Virtual SAN is, exactly what it offers, how to implement it, and how to maximize its value. Writing for administrators, consultants, and architects, Cormac Hogan and Duncan Epping show how Virtual SAN implements both object-based storage and a policy platform that simplifies VM storage placement. You'll learn how Virtual SAN and vSphere work together to dramatically improve resiliency, scale-out storage functionality,

and control over QoS. Both an up-to-the-minute reference and hands-on tutorial, Essential Virtual SAN uses realistic examples to demonstrate Virtual SAN's most powerful capabilities. You'll learn how to plan, architect, and deploy Virtual SAN successfully, avoid gotchas, and troubleshoot problems once you're up and running. Coverage includes Understanding the key goals and concepts of Software-Defined Storage and Virtual SAN technology Meeting physical and virtual requirements for safe Virtual SAN implementation Installing and configuring Virtual SAN for your unique environment Using Storage Policy Based Management to control availability, performance, and reliability Simplifying deployment with VM Storage Policies Discovering key Virtual SAN architectural details: caching I/O, VASA, witnesses, pass-through RAID, and more Ensuring efficient day-to-day Virtual SAN management and maintenance Interoperating with other VMware features and products Designing and sizing Virtual SAN clusters Troubleshooting, monitoring, and performance optimization

The new edition of a bestseller, now revised and update throughout! This new edition of the unparalleled bestseller serves as a full training course all in one and as the world's largest data storage company, EMC is the ideal author for such a critical resource. They cover the components of a storage system and the different storage system models while also offering essential new material that explores the advances in existing technologies and the emergence of the "Cloud" as well as updates and vital information on new technologies. Features a separate section on emerging area of cloud computing Covers new technologies such as: data de-duplication, unified storage, continuous data protection technology, virtual provisioning, FCoE, flash drives, storage tiering, big data, and more Details storage models such as Network Attached Storage (NAS), Storage Area Network (SAN), Object Based Storage along with virtualization at various infrastructure components Explores Business Continuity and Security in physical and virtualized environment Includes an enhanced Appendix for additional information This authoritative guide is essential for getting up to speed on the newest advances in information storage and management.

The importance of business continuity and disaster recovery remains at the forefront of thought for many executives and IT technical professionals. This IBM® Redpaper™ describes the lessons learned from recent disasters and how IBM storage technology can help businesses address many of the issues related to protecting their storage infrastructures and business-critical IT applications. Two principal disaster recovery metrics, Recovery Time Objective and Recovery Point Objective, are defined and, along with the associated cost tradeoffs, are discussed from the vantage point of various IBM storage technology solutions. Two IBM Business Continuity/Disaster Recovery (BC/DR) automation solutions, known as GDPS/PPRC with HyperSwap® and GDPS/PPRC HyperSwap Manager, are described and shown how they can help an installation move closer to attaining a goal of continuous operation GDPS/PPRC with HyperSwap operates in z/OS® environments. For z/OS installations operating two or more sites, in the event of a storage subsystem, host, network or communications facility failure, a switch to processing at an alternate site can be made in almost real time by using GDPS/PPRC with HyperSwap. Additionally, many Clustered Open Systems that are integrated with IBM Remote Copy technology can be configured to switch to a second site in almost real time. In these situations, when a site switch is executed, applications that have been cloned at both sites can continue running with minimal impact to the user.

This IBM® Redpaper™ publication provides a broad understanding of a new architecture of the IBM Power System E980 (9080-M9S) server that supports IBM AIX®, IBM i, and Linux operating systems (OSes). The objective of this paper is to introduce the major innovative Power E980 offerings and relevant functions: The IBM POWER9™ processor, which is available at frequencies of 3.55 - 4.0 GHz. Significantly strengthened cores and larger caches. Supports up to 64 TB memory. Integrated I/O subsystem and hot-pluggable Peripheral Component Interconnect Express (PCIe) Gen4 slots, double the bandwidth of Gen3 I/O slots. Supports EXP12SX and ESP24SX external disk drawers, which have 12 Gb SAS interfaces and double the existing EXP24S drawer bandwidth. New IBM EnergyScale™ technology offers new variable processor frequency modes that provide a significant performance boost beyond the static nominal frequency. This publication is for professionals who want to acquire a better understanding of IBM Power Systems™ products. The intended audience includes the following roles: Clients Sales and marketing professionals Technical support professionals IBM Business Partners Independent software vendors (ISVs) This paper expands the current set of IBM Power Systems documentation by providing a desktop reference that offers a detailed technical description of the Power E980 server. This paper does not replace the current marketing materials and configuration tools. It is intended as an extra source of information that, together with existing sources, can be used to enhance your knowledge of IBM server solutions.

This IBM® Redpaper™ publication will help you plan, install, tailor, and configure the new IBM PowerHA® with IBM HyperSwap® clustering solution. PowerHA with HyperSwap adds transparent storage protection for replicated storage, improving overall system availability by masking storage failures. The PowerHA cluster is an Extended Distance cluster with two sites. It manages, in principle, the replicated storage infrastructure through HyperSwap functionality. The storage is provided by two DS8800s configured to replicate each other using Metro Mirror Peer-to-Peer Remote Copy (PPRC) synchronous replication. DS8800 supports in-band (SCSI commands) communication, which is used to manage (and automate) the replication using IBM AIX® HyperSwap framework and PowerHA automation and management capabilities.

This IBM® Redbooks product guide describes Fabric Vision technology. The use of virtualization, flash storage, and automation tools has allowed applications and services to be deployed faster while shattering performance barriers. The unprecedented number of application and service interactions has also increased the complexity, risk, and instability of mission-critical operations. As a result, IT organizations need flexible storage networks that can adapt to dynamic environments and performance requirements for high-density virtualization, flash storage, and cloud infrastructures. To achieve Service Level Agreement (SLA) objectives, IT administrators also need new tools that can help ensure non-stop operations, quickly identify potential points of congestion, and maximize application performance, while simplifying administration. Fabric Vision technology with IO Insight, an extension of Gen 6 Fibre Channel, provides outstanding insight and visibility across the storage network with powerful, integrated

monitoring, management, and diagnostic tools that help organizations to simplify monitoring, increase operational stability, and dramatically reduce costs.

This IBM® Redbooks® publication can help you install, tailor, and configure the new IBM PowerHA® Version 7.1.3, and understand new and improved features such as migrations, cluster administration, and advanced topics like configuring in a virtualized environment including workload partitions (WPARs). With this book, you can gain a broad understanding of the IBM PowerHA SystemMirror® architecture. If you plan to install, migrate, or administer a high availability cluster, this book is right for you. This book can help IBM AIX® professionals who seek a comprehensive and task-oriented guide for developing the knowledge and skills required for PowerHA cluster design, implementation, and daily system administration. It provides a combination of theory and practical experience. This book is targeted toward technical professionals (consultants, technical support staff, IT architects, and IT specialists) who are responsible for providing high availability solutions and support with the IBM PowerHA SystemMirror Standard on IBM POWER® systems.

Companies and institutions depend more than ever on the availability of their Information Technology, and most mission critical business processes are IT-based. Business Continuity is the ability to do business under any circumstances and is an essential requirement faced by modern companies. Both concepts - High Availability and Disaster Recovery - are realized by redundant systems. This book presents requirements, concepts, and realizations of redundant systems on all abstraction levels, and all given examples refer to UNIX and Linux Systems.

This review addresses the territorial dimension of a range of policy challenges in the Ukraine, including governance, innovation, urban development and rural policy.

This IBM® Redbooks® publication for IBM Power Systems™ with IBM PowerHA® SystemMirror® Standard and Enterprise Editions (hardware, software, practices, reference architectures, and tools) documents a well-defined deployment model within an IBM Power Systems environment. It guides you through a planned foundation for a dynamic infrastructure for your enterprise applications. This information is for technical consultants, technical support staff, IT architects, and IT specialists who are responsible for providing high availability and support for the IBM PowerHA SystemMirror Standard and Enterprise Editions on IBM POWER® systems.

This IBM® Redbooks® publication helps you install, tailor, and configure the new IBM PowerHA® SystemMirror® for AIX® 7.1.1 Standard Edition. This book gives an understanding of the Cluster Aware AIX (CAA). This book helps you design a solution to migrate from the previous version of the IBM PowerHA. This IBM Redbooks publication is targeted toward technical professionals (consultants, technical support staff, IT architects, and IT specialists) responsible for providing continuous availability solutions and support.

IBM® PowerHA® SystemMirror® for i is the IBM high-availability (HA), disk-based clustering solution for the IBM i operating system. When combined with IBM i clustering technology, PowerHA for i delivers a complete HA and disaster recovery (DR) solution for business applications running in an IBM i environment. You can use PowerHA for i to support HA capabilities with either native disk storage, IBM DS8000® storage servers, or IBM Storwize® storage servers. Use this IBM Redbooks® publication to help you install, tailor, and configure IBM PowerHA SystemMirror for i with the IBM Storwize storage servers. This publication provides you with planning information to prepare for using the various PowerHA offerings for the IBM Storwize storage family. It also provides implementation and managing information. Finally, it provides guidance on troubleshooting these solutions and identifies the documentation that you must capture before calling support. This book is part of a four-book volume set that gives you a complete understanding of PowerHA for i by using native disk storage, IBM DS8000 storage servers, or IBM Storwize storage servers. The following publications are part of this PowerHA for i volume set: IBM PowerHA SystemMirror for i: Preparation (Volume 1 of 4), SG24-8400 IBM PowerHA SystemMirror for i: Using DS8000 (Volume 2 of 4), SG24-8403 IBM PowerHA SystemMirror for i: Using Geographic Mirroring (Volume 4 of 4), SG24-8401 Important: The information that is presented in this volume set is for technical consultants, technical support staff, IT architects, and IT specialists who are responsible for providing HA and support for IBM i solutions. If you are new to HA, you should first review the information that is presented in the first book of this volume set, IBM PowerHA SystemMirror for i: Preparation (Volume 1 of 4), SG24-8400, to get a general understanding of clustering technology, independent auxiliary storage pools (IASPs), and the PowerHA architecture.

IBM® FileNet® Content Manager Version 5.2 provides full content lifecycle and extensive document management capabilities for digital content. IBM FileNet Content Manager is tightly integrated with the family of IBM FileNet products based on the IBM FileNet P8 technical platform. IBM FileNet Content Manager serves as the core content management, security management, and storage management engine for the products. This IBM Redbooks® publication covers the implementation best practices and recommendations for solutions that use IBM FileNet Content Manager. It introduces the functions and features of IBM FileNet Content Manager, common use cases of the product, and a design methodology that provides implementation guidance from requirements analysis through production use of the solution. We address administrative topics of an IBM FileNet Content Manager solution, including deployment, system administration and maintenance, and troubleshooting. Implementation topics include system architecture design with various options for scaling an IBM FileNet Content Manager system, capacity planning, and design of repository design logical structure, security practices, and application design. An important implementation topic is business continuity. We define business continuity, high availability, and disaster recovery concepts and describe options for those when implementing IBM FileNet Content Manager solutions. Many solutions are essentially a combination of information input (ingestion), storage, information processing, and presentation and delivery. We discuss some solution building blocks that designers can combine to build an IBM FileNet Content Manager solution. This book is intended to be used in conjunction with product manuals and online help to provide guidance to architects and designers about implementing IBM FileNet Content Manager solutions. Many of the features and practices described in the book also apply to previous versions of IBM FileNet Content Manager.

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.

This IBM® Redbooks® publication positions high availability solutions for IBM Power Systems™ with IBM PowerHA® SystemMirror® Standard and Enterprise Editions (hardware, software, best practices, reference architectures, migration, and tools) with a well-defined and documented deployment model within an IBM Power Systems environment allowing customers a planned foundation for a dynamic high available infrastructure for their enterprise applications. This Redbooks publication documents topics to leverage the strengths of IBM PowerHA SystemMirror Standard and Enterprise Editions 7.1.3 for IBM Power Systems to solve customers' application high availability challenges, and maximize systems' availability, and management. This Redbooks publication focuses on providing the readers with technical information and references on the capabilities of each edition, functionalities, usability, and features that make IBM PowerHA SystemMirror a premier solution for high availability and disaster recovery for IBM Power Systems servers. This Redbooks publication helps strengthen the position of the IBM PowerHA SystemMirror solution with a well-defined and documented best practices, usability, functionality, migration and deployment model within an IBM POWER® system virtualized environment allowing customers a planned foundation for business resilient infrastructure solutions. This Redbooks publication is targeted toward technical professionals (consultants, technical support staff, IT Architects, and IT Specialists) responsible for providing high availability solutions and support with the IBM PowerHA SystemMirror on IBM POWER.

Data migration has become a mandatory and regular activity for most data centers. Companies need to migrate data not only when technology needs to be replaced, but also for consolidation, load balancing, and disaster recovery. This IBM Redbooks® publication addresses the aspects of data migration efforts while focusing on the IBM System Storage® as the target system. Data migration is a critical and complex operation, and this book provides the phases and steps to ensure a smooth migration. Topics range from planning and preparation to execution and validation. The book also reviews products and describes available IBM data migration services offerings. It explains, from a generic standpoint, the appliance-based, storage-based, and host-based techniques that can be used to accomplish the migration. Each method is explained including the use of the various products and techniques with different migration scenarios and various operating system platforms. This document targets storage administrators, storage network administrators, system designers, architects, and IT professionals who design, administer or plan data migrations in large data Centers. The aim is to ensure that you are aware of the current thinking, methods, tools, and products that IBM can make available to you. These items are provided to ensure a data migration process that is as efficient and problem-free as possible. The material presented in this book was developed with versions of the referenced products as of June 2011.

This IBM® Redbooks publication is a comprehensive guide that covers the IBM AIX® operating system (OS) layout capabilities, distinct features, system installation, and maintenance, which includes AIX security, trusted environment, and compliance integration, with the benefits of IBM Power Virtualization Management (PowerVM®) and IBM Power Virtualization Center (IBM PowerVC), which includes cloud capabilities and automation types. The objective of this book is to introduce IBM AIX modernization features and integration with different environments: General AIX enhancements AIX Live Kernel Update individually or using Network Installation Manager (NIM) AIX security features and integration AIX networking enhancements PowerVC integration and features for cloud environments AIX deployment using IBM Terraform and IBM Cloud Automation Manager AIX automation that uses configuration management tools PowerVM enhancements and features Latest disaster recovery (DR) solutions AIX Logical Volume Manager (LVM) and Enhanced Journaled File System (JFS2) AIX installation and maintenance techniques

This IBM® Redbooks® publication describes data migrations between IBM DS8000® storage systems, where in most cases one or more older DS8000 models are being replaced by the newer DS8870 model. Most of the migration methods are based on the DS8000 Copy Services. The book includes considerations for solutions such as IBM Tivoli® Productivity Center for Replication and the IBM Geographically Dispersed Parallel Sysplex™ (GDPS®) used in IBM z/OS® environments. Both offerings are primarily designed to enable a disaster recovery using DS8000 Copy Services. In most data migration cases, Tivoli Productivity Center for Replication or GDPS will not directly provide functions for the data migration itself. However, this book explains how to bring the new migrated environment back into the control of GDPS or Tivoli Productivity Center for Replication. In addition to the Copy Services based migrations, the book also covers host-based mirroring techniques, using IBM Transparent Data Migration Facility (TDMF®) for z/OS and the z/OS Dataset Mobility Facility (zDMF).

Latest EMC E20-807 VMAX3 Solutions Expert Exam Questions & Answers Pass Exam

Using real-world examples and hands-on tasks, Oracle Data Guard 11gR2 Administration Beginner's Guide will give you a solid foundation in Oracle Data Guard. It has been designed to teach you everything you need to know to successfully create and operate Data Guard environments with maximum flexibility, compatibility, and effectiveness. If you are an Oracle database administrator who wants to configure and administer Data Guard configurations, then "Oracle Data Guard 11gR2 Administration Beginner's Guide" is for you. With a basic understanding of Oracle database administration, you'll be able to easily follow the book.

This IBM® Redbooks® publication positions the IBM PowerHA® SystemMirror® V6.1 for AIX® Enterprise Edition as the cluster management solution for high availability. This solution enables near-continuous application service and minimizes the impact of planned and unplanned outages. The primary goal of this high-availability solution is to recover operations at a remote location after a system or data center failure, establish or strengthen a business recovery plan, and provide separate recovery location. The IBM PowerHA SystemMirror Enterprise Edition is targeted

at multisite high-availability disaster recovery. The objective of this book is to help new and existing PowerHA customers to understand how to plan to accomplish a successful installation and configuration of the PowerHA SystemMirror for AIX Enterprise Edition. This book emphasizes the IBM Power Systems™ strategy to deliver more advanced functional capabilities for business resiliency and to enhance product usability and robustness through deep integration with AIX, affiliated software stack, and storage technologies. PowerHA SystemMirror is designed, developed, integrated, tested, and supported by IBM from top to bottom.

As organizations strive to do more with less, IBM® DB2® for Linux, UNIX, and Windows provides various built-in high availability features. DB2 further provides high availability solutions by using enterprise system resources with broad support for clustering software, such as IBM PowerHA® SystemMirror®, IBM Tivoli® System Automation for Multiplatforms (Tivoli SA MP), and Microsoft Windows Cluster Server. This IBM Redbooks® publication describes the DB2 high availability functions and features, focusing on High Availability Disaster Recovery (HADR) in the OLTP environment. The book provides a detailed description of HADR, including setup, configuration, administration, monitoring, and preferred practices. This book explains how to configure Cluster software PowerHA, Tivoli SA MP, and MSCS with DB2 and show how to use these products to automate HADR takeover. DB2 also provides unprecedented enterprise-class disaster recovery capability. This book covers single system view backup, backup and restore with snapshot backup, and the db2recovery command, in detail. This book is intended for database administrators and information management professionals who want to design, implement, and support a highly available DB2 system.

This is a new edition of the classic textbook on marine protected area (MPA) management in the tropics, originally produced as an output of the Bali World Parks Congress in 1982.

Approaches to planning and managing MPAs have evolved considerably. Major advances include innovative financing mechanisms, partnerships with the private sector and NGOs, and collaborative management between government and coastal communities. These advances have brought new approaches for MPA establishment and management that are more participatory, involving communities through interaction and collaboration rather than prescription. With new case studies and illustrations, the guide comes in a water-resistant cover for field use. It is intended for those who plan individual and/or national MPA systems and gives philosophical context for MPAs along with some basic principles and approaches.

Master the basics of data centers to build server farms that enhance your Web site performance Learn design guidelines that show how to deploy server farms in highly available and scalable environments Plan site performance capacity with discussions of server farm architectures and their real-life applications to determine your system needs Today's market demands that businesses have an Internet presence through which they can perform e-commerce and customer support, and establish a presence that can attract and increase their customer base.

Underestimated hit ratios, compromised credit card records, perceived slow Web site access, or the infamous "Object Not Found" alerts make the difference between a successful online presence and one that is bound to fail. These challenges can be solved in part with the use of data center technology. Data centers switch traffic based on information at the Network, Transport, or Application layers. Content switches perform the "best server" selection process to direct users' requests for a specific service to a server in a server farm. The best server selection process takes into account both server load and availability, and the existence and consistency of the requested content. Data Center Fundamentals helps you understand the basic concepts behind the design and scaling of server farms using data center and content switching technologies. It addresses the principles and concepts needed to take on the most common challenges encountered during planning, implementing, and managing Internet and intranet IP-based server farms. An in-depth analysis of the data center technology with real-life scenarios make Data Center Fundamentals an ideal reference for understanding, planning, and designing Web hosting and e-commerce environments.

Chapter 1 -- Next-Generation IT Trends -- Layers of Function: The Service-Oriented Infrastructure Framework -- Blocks of Function: The Cloud Modules -- Cloud Computing Characteristics -- Computing Taxonomy -- Chapter 2 -- Next-Generation Data Center Architectures and Technologies -- The Data Center Consolidation and Virtualization Modus Operandi -- Server Consolidation Drivers -- Server Virtualization -- Storage Virtualization -- Layer 2 Evolutions -- Unified Data Center Fabric -- Chapter 3 -- Next-Generation WAN and Service Integration -- Service Integration in the Data Center -- Infrastructure Segmentation -- The Next-Generation Enterprise WAN -- Chapter 4 -- Branch Consolidation and WAN Optimization -- What is the WAN performance challenge? -- WAN Optimization Benefits -- Requirements for WAN Optimization Deployment -- Remote Office Virtualization Designs -- Chapter 5 -- Session Interception Design and Deployment -- Selecting an Interception Mechanism -- The WCCP Dive -- In-path Dep ...

- This is the latest practice test to pass the EMC E20-807 VMAX3 Solutions Expert Exam. - It contains 72 Questions and Answers. - All the questions are 100% valid and stable. - You can reply on this practice test to pass the exam with a good mark and in the first attempt.

Losing their prospects due to the economic recession and an unexpected pregnancy, James and Kate turn to drug trafficking to make ends meet and participate in a kidnapping and a shootout to maximize their profits.

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