

Back To Basics Snapmirror Netapp

Eventually, you will no question discover a extra experience and endowment by spending more cash. still when? get you take that you require to acquire those all needs taking into consideration having significantly cash? Why dont you try to get something basic in the beginning? Thats something that will guide you to understand even more on the globe, experience, some places, like history, amusement, and a lot more?

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IBM and Cisco: Together for a World Class Data Center Jon Tate 2013-07-31 This IBM® Redbooks® publication is an IBM and Cisco collaboration that articulates how IBM and Cisco can bring the benefits of their respective companies to the modern data center. It documents the architectures, solutions, and benefits that can be achieved by implementing a data center based on IBM server, storage, and integrated systems, with the broader Cisco network. We describe how to design a state-of-the art data center and networking infrastructure combining Cisco and IBM solutions. The objective is to provide a reference guide for customers looking to build an infrastructure that is optimized for virtualization, is highly available, is interoperable, and is efficient in terms of power and space consumption. It will explain the technologies used to build the infrastructure, provide use cases, and give guidance on deployments.

IBM DS8000 Copy Services: Updated for IBM DS8000 Release 9.1 Bertrand Dufrasne 2021-04-09 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.

Mastering Microsoft Virtualization Tim Cerling 2009-12-21 Shares step-by-step guidelines for deploying a complete virtualization stack, providing coverage of how to run multiple operating systems on a single machine, consolidate workloads, and alleviate the costs and demands of multiple machines. Original.

IBM System Storage N series Reference Architecture for Virtualized Environments Roland Tretau

2014-06-13 This IBM® Redbooks® publication provides deployment guidelines, workload estimates, and preferred practices for clients who want a proven IBM technology stack for virtualized VMware and Microsoft environments. The result is a Reference Architecture for Virtualized Environments (RAVE) that uses VMware vSphere or Microsoft Hypervisor, IBM System x® or IBM BladeCenter® server, IBM System Networking, and IBM System Storage® N series with Clustered Data ONTAP as a storage foundation. The reference architecture can be used as a foundation to create dynamic cloud solutions and make full use of underlying storage features and functions. This book provides a blueprint that illustrates how clients can create a virtualized infrastructure and storage cloud to help address current and future data storage business requirements. It explores the solutions that IBM offers to create a storage cloud solution addressing client needs. This book also shows how the Reference Architecture for Virtualized Environments and the extensive experience of IBM in cloud computing, services, proven technologies, and products support a Smart Storage Cloud solution that is designed for your storage optimization efforts. This book is for anyone who wants to learn how to successfully deploy a virtualized environment. It is also written for anyone who wants to understand how IBM addresses data storage and compute challenges with IBM System Storage N series solutions with IBM servers and networking solutions. This book is suitable for IT architects, business partners, IBM clients, storage solution integrators, and IBM sales representatives.

IBM FileNet Content Manager Implementation Best Practices and Recommendations Fay Chuck

2013-06-07 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.

IBM XIV Storage System Business Continuity Functions Bertrand Dufrasne 2018-08-07 The IBM XIV® Storage System has a rich set of copy functions suited for various data protection scenarios that enable you to enhance your business continuance, disaster recovery, data migration, and online backup solutions. These functions allow point-in-time copies, known as snapshots and full volume copies, and also include remote copy capabilities in either synchronous or asynchronous mode. A three-site mirroring function is now available to further improve availability and disaster recovery capabilities. These functions are included in the XIV software and all their features are available at no extra charge. The various copy functions are reviewed in separate chapters, which include detailed information about usage and practical illustrations. The book also illustrates the use of IBM® Tivoli® Storage Productivity Center for Replication to manage XIV Copy Services. This IBM Redbooks® publication is intended for anyone who needs a detailed and practical understanding of the XIV copy functions.

IBM System Storage N series Clustered Data ONTAP Roland Tretau 2014-06-04 IBM® System Storage® N series storage systems offer an excellent solution for a broad range of deployment scenarios. IBM System Storage N series storage systems function as a multiprotocol storage device that is designed to allow you to simultaneously serve both file and block-level data across a single network. These activities are demanding procedures that, for some solutions, require multiple, separately managed systems. The flexibility of IBM System Storage N series storage systems, however, allows them to address the storage needs of a wide range of organizations, including distributed enterprises and data centers for midrange enterprises. IBM System Storage N series storage systems also support sites with computer and data-intensive enterprise applications, such as database, data warehousing, workgroup collaboration, and messaging. This IBM Redbooks® publication explains the software features of the IBM System Storage N series storage systems with Clustered Data ONTAP (cDOT) Version 8.2, which is the first version available on the IBM System Storage N series, and as of October 2013, is also the most current version available. cDOT is different from previous ONTAP versions by the fact that it offers a storage solution that operates as a cluster with flexible scaling capabilities. cDOT configurations allow clients to build a scale-out architecture, protecting their investment and allowing horizontal scaling of their environment. This book also covers topics such as installation, setup, and administration of those software features from the IBM System Storage N series storage systems and clients, and provides example scenarios.

IBM Storage Infrastructure for Business Continuity R. F. Kern 2010-01-30 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 Continuance/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.

N series SnapMirror Async Guide Alex Osuna 2011-10-06 This IBM® Redbooks® publication presents an overview of implementing N series SnapMirror Async technology, with step-by-step configuration examples and recommendations to assist the reader in designing an optimal SnapMirror solution. There are several approaches to increasing data availability in the face of hardware, software, or even site failures. Backups provide a way to recover lost data from an archival medium (tape or disk). Redundant hardware technologies also help mitigate the damage caused by hardware issues or failures. Mirroring provides a third mechanism to facilitate data availability and minimize downtime. SnapMirror offers a fast and flexible enterprise solution for mirroring or replicating data over local area, wide area, and Fibre Channel (FC) networks. SnapMirror can be a key component in implementing enterprise data protection strategies. If a disaster occurs at a source site, businesses can access mission-critical data from a replica on a remote N series storage system for uninterrupted operation.

Web Content Delivery Xueyan Tang 2006-01-17 The concept of content delivery (also known as content distribution) is becoming increasingly important due to rapidly growing demands for efficient distribution and fast access of information in the Internet. Content delivery is very broad and comprehensive in that the contents for distribution cover a wide range of types with significantly different characteristics and performance concerns, including HTML documents, images, multimedia streams, database tables, and dynamically generated contents. Moreover, to facilitate ubiquitous information access, the network architectures and hardware devices also vary widely. They range from broadband wired/fixed networks to bandwidth-constrained wireless/mobile networks, and from powerful workstations/PCs to personal digital assistants (PDAs) and cellular phones with limited processing and display capabilities. All these levels of diversity are introducing numerous challenges on content delivery technologies. It is desirable to deliver contents in their best quality based on the nature of the contents, network connections and client devices.

This book aims at providing a snapshot of the state-of-the-art research and development activities on web content delivery and laying the foundations for future web applications. The book focuses on four main areas: (1) web content delivery; (2) dynamic web content; (3) streaming media delivery; and (4) ubiquitous web access. It consists of 17 chapters written by leading experts in the field. The book is designed for a professional audience including academic researchers and industrial practitioners who are interested in the most recent research and development activities on web content delivery.

High Availability IT Services Terry Critchley 2014-12-17 This book starts with the basic premise that a service is comprised of the 3Ps-products, processes, and people. Moreover, these entities and their sub-entities interlink to support the services that end users require to run and support a business. This widens the scope of any availability design far beyond hardware and software. It also increases t

IBM Information Infrastructure Solutions Handbook Sangam Racherla 2010-07-11 An information infrastructure is comprised of software, servers, storage, and networks, integrated and optimized to deliver timely, secure, and trusted information throughout the organization and to its clients and partners. With the explosive growth in data and information—coupled with demands for projects with rapid ROI—IT infrastructures and storage administrators are reaching a breaking point. IBM® can help with the changes needed to manage information availability, security, and regulatory and compliance requirements on a tighter budget. And because the health of any business often depends on its ability to take advantage of information in real time, a sound, intelligent information infrastructure becomes critical to supporting new growth initiatives. IBM offers an innovative approach to help you manage information growth more effectively and mitigate risks with a dynamic infrastructure that efficiently and securely stores and protects information, and optimizes information access. You can control, protect, manage, and gain new intelligence from your information with the IBM leading-edge Information Infrastructure products, services and 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.

High-Performance Big-Data Analytics Pethuru Raj 2015-10-16 This book presents a detailed review of high-performance computing infrastructures for next-generation big data and fast data analytics. Features: includes case studies and learning activities throughout the book and self-study exercises in every chapter; presents detailed case studies on social media analytics for intelligent businesses and on big data analytics (BDA) in the healthcare sector; describes the network infrastructure requirements for effective transfer of big data, and the storage infrastructure requirements of applications which generate big data; examines real-time analytics solutions; introduces in-database processing and in-memory analytics techniques for data mining; discusses the use of mainframes for handling real-time big data and the latest types of data management systems for BDA; provides information on the use of cluster, grid and cloud computing systems for BDA; reviews the peer-to-peer techniques and tools and the common information visualization techniques, used in BDA.

Grid Resource Management Jarek Nabrzyski 2012-12-06 Grid Resource Management: State of the Art and Future Trends presents an overview of the state of the field and describes both the real experiences and the current research available today. Grid computing is a rapidly developing and changing field, involving the shared and coordinated use of dynamic, multi-institutional resources. Grid resource management is the process of identifying requirements, matching resources to applications, allocating those resources, and scheduling and monitoring Grid resources over time in order to run Grid applications as efficiently as possible. While Grids have become almost commonplace, the use of good Grid resource management tools is far from ubiquitous because of the many open issues of the field, including the multiple layers of schedulers, the lack of control over resources, the fact that resources are shared, and that users and administrators have conflicting performance goals.

IBM System Storage N series Software Guide Roland Tretau 2014-07-31 Corporate workgroups, distributed enterprises, and small to medium-sized companies are increasingly seeking to network and consolidate storage to improve availability, share information, reduce costs, and protect and secure information. These organizations require enterprise-class solutions capable of addressing immediate storage needs cost-effectively, while providing an upgrade path for future requirements. IBM® System Storage® N series storage systems and their software capabilities are designed to meet these

requirements. IBM System Storage N series storage systems offer an excellent solution for a broad range of deployment scenarios. IBM System Storage N series storage systems function as a multiprotocol storage device that is designed to allow you to simultaneously serve both file and block-level data across a single network. These activities are demanding procedures that, for some solutions, require multiple, separately managed systems. The flexibility of IBM System Storage N series storage systems, however, allows them to address the storage needs of a wide range of organizations, including distributed enterprises and data centers for midrange enterprises. IBM System Storage N series storage systems also support sites with computer and data-intensive enterprise applications, such as database, data warehousing, workgroup collaboration, and messaging. This IBM Redbooks® publication explains the software features of the IBM System Storage N series storage systems. This book also covers topics such as installation, setup, and administration of those software features from the IBM System Storage N series storage systems and clients and provides example scenarios.

Milestones in Water Reuse Valentina Lazarova 2013-01-15 **Milestones in Water Reuse: The Best Success Stories** illustrates the benefits of water reuse in integrated water resources management and its role for water cycle management, climate change adaptation and water in the cities of the future. Selected case studies are used to illustrate the different types of water reuse, i.e. agricultural irrigation, golf course and landscape irrigation, urban and industrial uses, environmental enhancement, as well as indirect and direct potable reuse. The various aspects related to water reuse are covered, including treatment technologies, water quality, economics, public acceptance, benefits, keys for success and main constraints. These international case studies highlight the best practices for the implementation of water reuse and provide the perspective for the integration of water recycling projects in the future, both for megacities and rural areas. **Milestones in Water Reuse: The Best Success Stories** demonstrates that planned water reuse is a cost competitive and energy-saving option to increase water availability and reliability. This book provides policy makers and regulators with a good understanding of water reuse and helps them to consider recycled water as safe and how it can be used. It is intended to be read by all people in the water sector and shows how water reuse is safe, economically viable, environmentally friendly and can provide high social benefits. Editors: Valentina Lazarova, Suez Environnement, France Takashi Asano, University of California at Davis, USA Akica Bahri, African Development Bank, Tunisia John Anderson, Afton Water,

SnapManager 2.0 for Virtual Infrastructure Best Practices Alex Osuna 2010-09-29 This IBM® Redbooks® publication provides best practices for the IBM System Storage N series and SnapManager® for Virtual Infrastructure 2.0 (SMVI). We address the resource utilization issues typically found within virtual environments by leveraging the underlying Snapshot technology, which enables you to create point-in-time copies of your virtual machines or entire data stores and then restore from these backup copies at any level of granularity, datastore, VM, disk (VMDK), or guest file, simply and quickly when required. In addition, we provide best practices for protecting the SMVI server and recovering in case of a disaster. Furthermore, we explain the seamless integration of N series storage solutions, including MetroCluster, so customers can leverage storage and virtualization technologies to create dynamic infrastructures that can create tremendous business value. The reader of this book will gain a deep understanding of how to implement SnapManager for Virtual Infrastructure in VMware vSphere environments.

IBM PowerHA SystemMirror for AIX 7.1.3 Best Practices and Migration Guide Dino Quintero 2015-02-02 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.

How to Castrate a Bull Dave Hitz 2009-01-20 Dave Hitz likes to solve fun problems. He didn't set out to be a Silicon Valley icon, a business visionary, or even a billionaire. But he became all three. It turns out that business is a mosaic of interesting puzzles like managing risk, developing and reversing strategies, and looking into the future by deconstructing the past. As a founder of NetApp, a data storage firm that began as an idea scribbled on a placemat and now takes in \$4 billion a year, Hitz has seen his company go through every major cycle in business—from the Jack-of-All-Trades mentality of a start-up, through the tumultuous period of the IPO and the dot-com bust, and finally to a mature enterprise company. NetApp is one of the fastest-growing computer companies ever, and for six years in a row it has been on Fortune magazine's list of Best Companies to Work For. Not bad for a high school dropout who began his business career selling his blood for money and typing the names of diseases onto index cards. With colorful examples and anecdotes, *How to Castrate a Bull* is a story for everyone interested in understanding business, the reasons why companies succeed and fail, and how powerful lessons often come from strange and unexpected places. Dave Hitz co-founded NetApp in 1992 with James Lau and Michael Malcolm. He served as a programmer, marketing evangelist, technical architect, and vice president of engineering. Presently, he is responsible for future strategy and direction for the company. Before his career in Silicon Valley, Dave worked as a cowboy, where he got valuable management experience by herding, branding, and castrating cattle.

Solutions Architect's Handbook Saurabh Shrivastava 2020-03-21 This book will show you how to create robust, scalable, highly available and fault-tolerant solutions by learning different aspects of Solution architecture and next-generation architecture design in the Cloud environment.

Disaster Recovery and Backup Solutions for IBM FileNet P8 Version 4.5.1 Systems Wei-Dong Zhu 2015-04-13 Many organizations require continuous operation of their mission-critical, IBM® FileNet P8® systems after a failure has occurred. Loss of system resources and services as a result of any failure can

translate directly into lost customers and lost revenue. The goal, therefore, is to design and implement a FileNet P8 system that ensures continuous operation even after a failure happens. This IBM Redbooks® publication focuses on FileNet P8 Version 4.5.1 systems disaster recovery. The book covers strategies, preparation levels, site sizing, data replication, testing, and what to do during a disaster. Backup and restore planning is a critical aspect of a disaster recovery strategy. We discuss backup types and strategies. We also discuss alternative strategies such as rolling storage policies and IBM FlashCopy® capability. With the help of use cases and our lab testing environment, the book provides guidelines for setting up a FileNet P8 production environment and a standby FileNet P8 disaster recovery system. This book is intended for IT architects, IT specialists, project managers, and decision makers, who must identify the best disaster recovery strategies and integrate them into the FileNet P8 system design process.

Administering VMware Site Recovery Manager 5.0 Michael Gordon Laverick 2011-12-28 The Complete, Hands-On Guide to Installing and Configuring VMware Site Recovery Manager 5.0 Administering VMware Site Recovery Manager 5.0 is the complete, technical, hands-on guide to VMware Site Recovery Manager (SRM) 5.0 installation and configuration for experienced VMware professionals. VMware forum moderator and vExpert Mike Laverick fully explains SRM 5.0's failover/failback procedures, walks readers through configuring storage replication with hardware from several leading suppliers, and shows how to efficiently implement fast, automated, centralized disaster recovery. Drawing on his extensive experience with SRM and vSphere, Laverick identifies common pitfalls and errors, explains why they occur, and shows exactly how to fix them. Fully up to date for SRM 5.0, this book delivers "in-the-trenches" technical knowledge you won't find anywhere else, including expert guidance for utilizing SRM 5.0's advanced new vSphere Replication (VR). Coverage includes Going "under the hood" with SRM 5.0 to thoroughly understand its operation Configuring SRM 5.0 with Dell EqualLogic Replication, EMC Celerra Replicator, EMC CLARiiON MirrorView, HP StorageWorks P4000 Virtual SAN Appliance with Remote Copy, and NetApp SnapMirror Configuring multiple LUN/volumes with virtual machines and virtual disks Installing VMware SRM and configuring vSphere Replication (VR) Using VR to replicate VMs across locations without third-party storage array-based replication Using VR to replicate a single VM or groups of VMs to the Recovery Site Efficiently configuring protected and recovery sites Using Reprotect Mode to accelerate failback and

enhance VM portability Using dependencies and priority orders to configure SRM based on your existing categories of applications and services Leveraging SRM 5.0's scalability improvements to serve large-scale and/or cloud environments Defining custom recovery plans Working with alarms, export histories, and access control Implementing bidirectional relationships and shared site configurations Scripting automated site recovery Upgrading from SRM 4.1 to SRM 5.0

Data Protection Preston de Guise 2017-03-03 This is the fundamental truth about data protection: backup is dead. Or rather, backup and recovery, as a standalone topic, no longer has relevance in IT. As a standalone topic, it's been killed off by seemingly exponential growth in storage and data, by the cloud, and by virtualization. So what is data protection? This book takes a holistic, business-based approach to data protection. It explains how data protection is a mix of proactive and reactive planning, technology and activities that allow for data continuity. It shows how truly effective data protection comes from a holistic approach considering the entire data lifecycle and all required SLAs. Data protection is neither RAID nor is it continuous availability, replication, snapshots or backups—it is all of them, combined in a considered and measured approach to suit the criticality of the data and meet all the requirements of the business. The book also discusses how businesses seeking to creatively leverage their IT investments and to drive through cost optimization are increasingly looking at data protection as a mechanism to achieve those goals. In addition to being a type of insurance policy, data protection is becoming an enabler for new processes around data movement and data processing. This book arms readers with information critical for making decisions on how data can be protected against loss in the cloud, on-premises, or in a mix of the two. It explains the changing face of recovery in a highly virtualized data center and techniques for dealing with big data. Moreover, it presents a model for where data recovery processes can be integrated with IT governance and management in order to achieve the right focus on recoverability across the business.

IBM System Storage Solutions Handbook Ezgi Coskun 2016-07-15 The IBM® System Storage® Solutions Handbook helps you solve your current and future data storage business requirements. It helps you achieve enhanced storage efficiency by design to allow managed cost, capacity of growth, greater mobility, and stronger control over storage performance and management. It describes the most current

IBM storage products, including the IBM Spectrum™ family, IBM FlashSystem®, disk, and tape, as well as virtualized solutions such IBM Storage Cloud. This IBM Redbooks® publication provides overviews and information about the most current IBM System Storage products. It shows how IBM delivers the right mix of products for nearly every aspect of business continuance and business efficiency. IBM storage products can help you store, safeguard, retrieve, and share your data. This book is intended as a reference for basic and comprehensive information about the IBM Storage products portfolio. It provides a starting point for establishing your own enterprise storage environment. This book describes the IBM Storage products as of March, 2016.

Networking for VMware Administrators Christopher Wahl 2014 "Now that virtualization has blurred the lines between networking and servers, many VMware specialists need a stronger understanding of networks than they may have gained in earlier IT roles. Networking for VMware administrators fills this crucial knowledge gap. Writing for VMware professionals, Christopher Wahl and Steve Pantol illuminate the core concepts of modern networking, and show how to apply them in designing, configuring, and troubleshooting any virtualized network environment"--Page 4 of cover

Introduction to Geospatial Information and Communication Technology (GeoICT) Rifaat Abdalla 2018-05-30
This book is designed to help students and researchers understand the latest research and development trends in the domain of geospatial information and communication (GeoICT) technologies. Accordingly, it covers the fundamentals of geospatial information systems, spatial positioning technologies, and networking and mobile communications, with a focus on OGC and OGC standards, Internet GIS, and location-based services. Particular emphasis is placed on introducing GeoICT as an integrated technology that effectively bridges various information-technology domains.

Data Center Virtualization Fundamentals Gustavo Alessandro Andrade Santana 2013-06-21 Data Center Virtualization Fundamentals For many IT organizations, today's greatest challenge is to drive more value, efficiency, and utilization from data centers. Virtualization is the best way to meet this challenge. Data Center Virtualization Fundamentals brings together the comprehensive knowledge Cisco professionals need to apply virtualization throughout their data center environments. Leading data center expert

Gustavo A. A. Santana thoroughly explores all components of an end-to-end data center virtualization solution, including networking, storage, servers, operating systems, application optimization, and security. Rather than focusing on a single product or technology, he explores product capabilities as interoperable design tools that can be combined and integrated with other solutions, including VMware vSphere. With the author's guidance, you'll learn how to define and implement highly-efficient architectures for new, expanded, or retrofit data center projects. By doing so, you can deliver agile application provisioning without purchasing unnecessary infrastructure, and establish a strong foundation for new cloud computing and IT-as-a-service initiatives. Throughout, Santana illuminates key theoretical concepts through realistic use cases, real-world designs, illustrative configuration examples, and verification outputs. Appendixes provide valuable reference information, including relevant Cisco data center products and CLI principles for IOS and NX-OS. With this approach, Data Center Virtualization Fundamentals will be an indispensable resource for anyone preparing for the CCNA Data Center, CCNP Data Center, or CCIE Data Center certification exams. Gustavo A. A. Santana, CCIE® No. 8806, is a Cisco Technical Solutions Architect working in enterprise and service provider data center projects that require deep integration across technology areas such as networking, application optimization, storage, and servers. He has more than 15 years of data center experience, and has led and coordinated a team of specialized Cisco engineers in Brazil. He holds two CCIE certifications (Routing & Switching and Storage Networking), and is a VMware Certified Professional (VCP) and SNIA Certified Storage Networking Expert (SCSN-E). A frequent speaker at Cisco and data center industry events, he blogs on data center virtualization at gustavoasantana.net.

Learn how virtualization can transform and improve traditional data center network topologies Understand the key characteristics and value of each data center virtualization technology Walk through key decisions, and transform choices into architecture Smoothly migrate existing data centers toward greater virtualization Burst silos that have traditionally made data centers inefficient Master foundational technologies such as VLANs, VRF, and virtual contexts Use virtual PortChannel and FabricPath to overcome the limits of STP Optimize cabling and network management with fabric extender (FEX) virtualized chassis Extend Layer 2 domains to distant data center sites using MPLS and Overlay Transport Virtualization (OTV) Use VSANs to overcome Fibre Channel fabric challenges Improve SAN data protection, environment isolation, and scalability Consolidate I/O through Data Center Bridging and FCoE Use virtualization to radically simplify server environments Create server profiles that streamline

"bare metal" server provisioning "Transcend the rack" through virtualized networking based on Nexus 1000V and VM-FEX Leverage opportunities to deploy virtual network services more efficiently Evolve data center virtualization toward full-fledged private clouds -Reviews - "The variety of material that Gustavo covers in this work would appeal to anyone responsible for Data Centers today. His grasp of virtualization technologies and ability to relate it in both technical and non-technical terms makes for compelling reading. This is not your ordinary tech manual. Through use of relatable visual cues, Gustavo provides information that is easily recalled on the subject of virtualization, reaching across Subject Matter Expertise domains. Whether you consider yourself well-versed or a novice on the topic, working in large or small environments, this work will provide a clear understanding of the diverse subject of virtualization." -- Bill Dufresne, CCIE 4375, Distinguished Systems Engineer, Cisco (Americas) "..this book is an essential reference and will be valuable asset for potential candidates pursuing their Cisco Data Center certifications. I am confident that in reading this book, individuals will inevitably gain extensive knowledge and hands-on experience during their certification preparations. If you're looking for a truly comprehensive guide to virtualization, this is the one!" -- Yusuf Bhaiji, Senior Manager, Expert Certifications (CCIE, CCDE, CCAr), Learning@Cisco "When one first looks at those classic Cisco Data Center blueprints, it is very common to become distracted with the overwhelming number of pieces and linkages. By creating a solid theoretical foundation and providing rich sets of companion examples to illustrate each concept, Gustavo's book brings hope back to IT Professionals from different areas of expertise. Apparently complex topics are demystified and the insertion of products, mechanisms, protocols and technologies in the overall Data Center Architecture is clearly explained, thus enabling you to achieve robust designs and successful deployments. A must read... Definitely!" -- Alexandre M. S. P. Moraes, Consulting Systems Engineer -- Author of "Cisco Firewalls"

IBM System Storage Business Continuity: Part 1 Planning Guide Charlotte Brooks 2007-03-07 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 XIV Storage System 2010

Implementing IBM Storage Data Deduplication Solutions Alex Osuna 2011-03-24 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

Netapp ONTAP 9 Command-Line by Example Peter van der Weerd 2017-12-09 This book discusses the

concepts and architecture of the Netapp ONTAP 9 Operating System environment and offers many command-line examples for day-to-day administration, plus exercises.

Middleware 2013 David Eyers 2013-12-04 This book constitutes the refereed proceedings of the ACM/IFIP/USENIX 14th International Middleware Conference, held in Beijing, China, in December 2013. The 24 revised full papers presented were carefully reviewed and selected from 189 submissions. The papers cover a wide range of topics including design, implementation, deployment and evaluation of middleware for next-generation platforms such as cloud computing, social networks and large-scale storage and distributed systems. The middleware solutions introduced provide features such as availability, efficiency, scalability, fault-tolerance, trustworthy operation and support security and privacy needs.

The New Master Key System Lukas Bell 2019-03-20 Perfect for personal use, or for your whole office. Get yours today. Whether on your desk at home or in your bag on the go our professionally designed! Specifications: Cover Finish: Matte Dimensions: 6" x 9" (15.24 x 22.86 cm) Interior: Blank, White Paper, Unlined Pages: 110

Deployment Guide Series Axel Buecker 2008 In order to comply with government and industry regulations, such as Sarbanes-Oxley, Gramm-Leach-Bliley, and COBIT, enterprises have to constantly detect, validate, and report unauthorized change and out-of-compliance actions on their IT infrastructure. The Tivoli Compliance Insight Manager solution allows organizations to improve the security of their information systems by capturing comprehensive log data, correlating this data through sophisticated log interpretation and normalization, and communicating results through a dashboard and a full set of audit and compliance reporting. We discuss the business context of security audit and compliance software for organizations, and we show a typical deployment within a business scenario. This IBM Redbooks publication is a valuable resource for security officers, administrators, and architects who wish to understand and deploy a centralized security audit and compliance solution.

Mastering VMware vSphere 5.5 Scott Lowe 2013-10-16 The 2013 edition of the bestselling vSphere book

on the market Virtualization remains the hottest trend in the IT world, and VMware vSphere is the industry's most widely deployed virtualization solution. The demand for IT professionals skilled in virtualization and cloud-related technologies is great and expected to keep growing. This comprehensive Sybex guide covers all the features and capabilities of VMware vSphere, showing administrators step by step how to install, configure, operate, manage, and secure it. This perfect blend of hands-on instruction, conceptual explanation, and practical application is reinforced with real-world examples. Led by Scott Lowe and Nick Marshall, both VMware vExperts, the author team provides expertise that will prepare IT professionals to excel in using this virtualization technology. Virtualization is seen as a "best practice" for high availability and disaster recovery solutions, as well as for applications such as Exchange Server and SharePoint IDC estimates that there are as many as 7 million jobs available worldwide in virtualization and cloud technology Provides hands-on instruction in all the latest features and capabilities of VMware vSphere, with both conceptual explanations and practical applications Author team is lead by Scott Lowe and Nick Marshall, well-known VMware experts and popular bloggers Mastering VMware vSphere provides what every virtualization professional needs to know.

Optimal Routing Design Russ White 2005 Techniques for optimizing large-scale IP routing operation and managing network growth Understand the goals of scalable network design, including tradeoffs between network scaling, convergence speed, and resiliency Learn basic techniques applicable to any network design, including hierarchy, addressing, summarization, and information hiding Examine the deployment and operation of EIGRP, OSPF, and IS-IS protocols on large-scale networks Understand when and how to use a BGP core in a large-scale network and how to use BGP to connect to external networks Apply high availability and fast convergence to achieve 99.999 percent, or "five 9s" network uptime Secure routing systems with the latest routing protocol security best practices Understand the various techniques used for carrying routing information through a VPN Optimal Routing Design provides the tools and techniques, learned through years of experience with network design and deployment, to build a large-scale or scalable IP-routed network. The book takes an easy-to-read approach that is accessible to novice network designers while presenting invaluable, hard-to-find insight that appeals to more advanced-level professionals as well. Written by experts in the design and deployment of routing protocols, Optimal Routing Design leverages the authors' extensive experience with thousands of customer cases and

network designs. Boiling down years of experience into best practices for building scalable networks, this book presents valuable information on the most common problems network operators face when seeking to turn best effort IP networks into networks that can support Public Switched Telephone Network (PSTN)-type availability and reliability. Beginning with an overview of design fundamentals, the authors discuss the tradeoffs between various competing points of network design, the concepts of hierarchical network design, redistribution, and addressing and summarization. This first part provides specific techniques, usable in all routing protocols, to work around real-world problems. The next part of the book details specific information on deploying each interior gateway protocol (IGP)--including EIGRP, OSPF, and IS-IS--in real-world network environments. Part III covers advanced topics in network design, including border gateway protocol (BGP), high-availability, routing protocol security, and virtual private networks (VPN). Appendixes cover the fundamentals of each routing protocol discussed in the book; include a checklist of questions and design goals that provides network engineers with a useful tool when evaluating a network design; and compare routing protocols strengths and weaknesses to help you decide when to choose one protocol over another or when to switch between protocols. "The complexity associated with overlaying voice and video onto an IP network involves thinking through latency, jitter, availability, and recovery issues. This text offers keen insights into the fundamentals of network architecture for these converged environments." --John Cavanaugh, Distinguished Services Engineer, Cisco Systems® 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.

IBM Tivoli Storage Manager as a Data Protection Solution Larry Coyne 2014-08-15 When you hear IBM® Tivoli® Storage Manager, the first thing that you typically think of is data backup. Tivoli Storage Manager is the premier storage management solution for mixed platform environments. Businesses face a tidal wave of information and data that seems to increase daily. The ability to successfully and efficiently manage information and data has become imperative. The Tivoli Storage Manager family of products helps businesses successfully gain better control and efficiently manage the information tidal wave through significant enhancements in multiple facets of data protection. Tivoli Storage Manager is a highly scalable and available data protection solution. It takes data protection scalability to the next level with a

relational database, which is based on IBM DB2® technology. Greater availability is delivered through enhancements such as online, automated database reorganization. This IBM Redbooks® publication describes the evolving set of data-protection challenges and how capabilities in Tivoli Storage Manager can best be used to address those challenges. This book is more than merely a description of new and changed functions in Tivoli Storage Manager; it is a guide to use for your overall data protection solution.

ILM Library Charlotte Brooks 2006 Every organization has large amounts of data to store, use, and manage. For most, this quantity is increasing. However, over time, the value of this data changes. How can we map data to an appropriate storage media, so that it can be accessed in a timely manner when needed, retained for as long as required, and disposed of when no longer needed? Information Lifecycle Management (ILM) provides solutions. ILM is the process of managing information-from creation, through its useful life, to its eventual destruction-in a manner that aligns storage costs with the changing business value of information. We can think of ILM as an integrated solution of five IT management and infrastructure components working together: Service management (service levels), content management, workflow management (or process management), storage management, and storage infrastructure. This IBM Redbooks publication will help you understand what ILM is and why it is of value to you in your organization, and provide you with suggested ways to implement it using IBM products.