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Paola Bari, Helio Almeida, Gary Detro, David Druker, Marian Gasparovic, Manfred Gnirss, Jean Francois Jiguet, IBM Redbooks

Microsoft System Center Building a Virtualized Network Solution Nigel

Cain, Alvin Morales, Michel Luescher, Damian Flynn, 2014-02-15 Part of a series of specialized guides on System Center - this book provides focused drilldown into building a virtualized network solution. Series editor Mitch Tulloch and a team of System Center experts provide concise technical guidance as they step you through key build, configuration, and implementation tasks.

Guide to Security for Full Virtualization Technologies K. A. Scarfone, 2011 The purpose of SP 800-125 is to discuss the security concerns associated with full virtualization technologies for server and desktop virtualization, and to provide recommendations for addressing these concerns. Full virtualization technologies run one or more operating systems and their applications on top of virtual hardware. Full virtualization is used for operational efficiency, such as in cloud computing, and for allowing users to run applications for multiple operating systems on a single computer.

DB2 Virtualization Whei-Jen Chen, Jason Chan, Olaf Mueller, Malcolm Singh, Tapio Väättänen, IBM Redbooks, 2009-11-25 Server virtualization technologies are becoming more popular to help efficiently utilize resources by consolidating servers. IBM®, the first company that developed and made available the virtual technology in 1966, offers advanced, powerful, reliable, and cost-saving virtualization technologies in various hardware and software products including DB2® for Linux, UNIX, and Windows. This IBM Redbooks® publication describes using IBM DB2 9 with server virtualization. We start with a general overview of virtualization and describe specific server virtualization technologies to highlight how the server virtualization technologies have been implemented. With this introduction anyone new to virtualization will have a better understanding of server virtualization and the industry server virtualization technologies available in the market. Following the virtualization concept, we describe in detail the setup, configuration, and managing of DB2 with three leading server virtualization technologies: IBM Power Systems™ with PowerVM™ VMware Hyper-V We discuss the virtual machine setup with DB2 in mind to help IT support understand the effective ways of setting up a virtual environment specific for DB2. We explain the architecture and components of these three server virtualization technologies to allow DBAs to understand how a database environment using DB2 can benefit from using the server virtualization technologies. In addition, we discuss the DB2 features and functions that can take advantage of using server virtualization. These features are put into practice when describing how to set up DB2 with the three virtualization technologies discussed in this book. This book also includes a list of best practices from the various tests performed while using these virtualization technologies. These best practices can be used as a guideline or a reference when setting up DB2 using these virtualization technologies.

VMware NSX Micro-Segmentation ? Day 1 Wade Holmes, 2017-01-31 Micro-segmentation - Day 1 brings together the knowledge and guidance for planning, designing, and implementing a modern security architecture for the software-defined data center based on micro-segmentation. VMware NSX makes network micro-segmentation feasible for the first time. It enables granular firewalling and security policy enforcement for every workload in the data center, independent of the network topology and complexity. Micro-segmentation with NSX already helped over a thousand organizations improve

the security posture of their software-defined data center by fundamentally changing the way they approach security architecture. Micro-segmentation - Day 1 is your roadmap to simplify and enhance security within software-defined data centers running NSX. You will find insights and recommendations proven in the field for moving your organization from a perimeter-centric security posture to a micro-segmented architecture that provides enhanced security and visibility within your data center.

Configuring VMware Virtual Volumes for Systems Powered by IBM Spectrum Virtualize Adam Reid, Jacob Winch, Warren Hawkins, Jon Tate, IBM Redbooks, 2016-03-02 IBM® Spectrum Virtualize and VMware's Virtual Volumes (VVols) are paving the way toward a true IBM Software Defined Environment (SDE). IBM Spectrum™ Virtualize is at the core of software-defined storage. The addition of VVols enables a fundamentally more efficient operational model for storage in virtualized environments, centering it around the virtual machine (VM) rather than the physical infrastructure. This IBM Redbooks® publication provides an overview of the VVols management framework and its implementation on storage systems managed by IBM Spectrum Virtualize™.

Virtualization on the IBM System X3950 Server Massimo Re Ferre', 2006
Virtualizing and Tuning Large Scale Java Platforms Emad Benjamin, 2013-12-23
Virtualizing and Tuning Large-Scale Java Platforms Technical best practices and real-world tips for optimizing enterprise Java applications on VMware vSphere® Enterprises no longer ask, "Can Java be virtualized"? Today, they ask, "Just how large can we scale virtualized Java application platforms, and just how efficiently can we tune them?" Now, the leading expert on Java virtualization answers these questions, offering detailed technical information you can apply in any production or QA/test environment. Emad Benjamin has spent nine years virtualizing VMware's own enterprise Java applications and working with nearly 300 leading VMware customers on projects of all types and sizes—from 100 JVMs to 10,000+, with heaps from 1GB to 360GB, and including massive big-data applications built on clustered JVMs. Reflecting all this experience, he shows you how to successfully size and tune any Java workload. This reference and performance "cookbook" identifies high-value optimization opportunities that apply to physical environments, virtual environments, or both. You learn how to rationalize and scale existing Java infrastructure, modernize architecture for new applications, and systematically benchmark and improve every aspect of virtualized Java performance. Throughout, Benjamin offers real performance studies, specific advice, and "from-the-trenches" insights into monitoring and troubleshooting. Coverage includes --Performance issues associated with large-scale Java platforms, including consolidation, elasticity, and flexibility --Technical considerations arising from theoretical and practical limits of Java platforms --Building horizontal in-memory databases with VMware vFabric SQLFire to improve scalability and response times --Tuning large-scale Java using throughput/parallel GC and Concurrent Mark and Sweep (CMS) techniques - -Designing and sizing a new virtualized Java environment --Designing and sizing new large-scale Java platforms when migrating from physical to virtualized deployments --Designing and sizing large-scale Java platforms for latency-sensitive in-memory databases --Real-world performance studies: SQLFire vs. RDBMS, Spring-based Java web apps, vFabric SpringTrader, application tiers, data tiers, and more --Performance differences between

ESXi3, 4.1, and 5 --Best-practice considerations for each type of workload: architecture, performance, design, sizing, and high availability -- Identifying bottlenecks in the load balancer, web server, Java application server, or DB Server tiers --Advanced vSphere Java performance troubleshooting with esxtop --Performance FAQs: answers to specific questions enterprise customers have asked

Virtualization Security Dave Shackelford,2012-11-08 Securing virtual environments for VMware, Citrix, and Microsoft hypervisors Virtualization changes the playing field when it comes to security. There are new attack vectors, new operational patterns and complexity, and changes in IT architecture and deployment life cycles. What's more, the technologies, best practices, and strategies used for securing physical environments do not provide sufficient protection for virtual environments. This book includes step-by-step configurations for the security controls that come with the three leading hypervisor--VMware vSphere and ESXi, Microsoft Hyper-V on Windows Server 2008, and Citrix XenServer. Includes strategy for securely implementing network policies and integrating virtual networks into the existing physical infrastructure Discusses vSphere and Hyper-V native virtual switches as well as the Cisco Nexus 1000v and Open vSwitch switches Offers effective practices for securing virtual machines without creating additional operational overhead for administrators Contains methods for integrating virtualization into existing workflows and creating new policies and processes for change and configuration management so that virtualization can help make these critical operations processes more effective This must-have resource offers tips and tricks for improving disaster recovery and business continuity, security-specific scripts, and examples of how Virtual Desktop Infrastructure benefits security.

Implementing the IBM Storwize V3500 Jon Tate,Uwe Dubberke,Justin Heather,Andrew Hickey,Imran Imtiaz,Nancy Kinney,Dieter Utesch,IBM Redbooks,2013-10-21 Businesses of all sizes are faced with the challenge of managing huge volumes of data that are becoming increasingly valuable. But storing this data can be costly, and extracting value from the data is becoming more and more difficult. IT organizations have limited resources and cannot afford to make investment mistakes. The IBM® Storwize® V3500 system provides a smarter solution that is affordable, simple, and efficient, which enables businesses to overcome their storage challenges. IBM Storwize V3500 is the most recent addition to the IBM Storwize family of disk systems. It delivers easy-to-use, entry-level configurations that are specifically designed to meet the modest budgets of small and medium-sized businesses. IBM Storwize V3500 features the following highlights: - Consolidate and share data with low cost iSCSI storage networking. - Deploy storage in minutes and perform storage management tasks quickly and easily through a breakthrough graphical user interface. - Experience peace of mind with proven IBM Storwize family high-availability data protection with snapshot technology and IBM warranty support. - Optimize efficiency by allocating only the amount of disk space needed at the time it is required with high performance, thin-provisioning capabilities.

Using z/VM for Test and Development Environments: A Roundup Lydia Parziale,Klaus Egeler,Eravimangalath P Naveen,Manoj S Pattabhiraman,Kyle Smith,IBM Redbooks,2007-02-27 This IBM Redbooks publication shows the strengths of z/VM and how you can use these strengths to create a highly

flexible test and production environment. Some of the strengths of z/VM that are shown in this book are that you can run Linux on z/VM, you can run a sysplex under z/VM, and you can develop code under z/VM for z/TPF. You can also provision Linux guests under z/VM. A vswitch allows you to connect all of your guests (all operating systems that run under z/VM) easily to the network. You can simulate your production environment on a sysplex. The intention of this book is to show the strengths of z/VM and how you can use these strengths to simulate your production environment and expand your application development and testing environments.

Cloud Computing and Virtualization Dac-Nhuong Le, Raghvendra Kumar, Gia Nhu Nguyen, Jyotir Moy Chatterjee, 2018-03-12 The purpose of this book is first to study cloud computing concepts, security concern in clouds and data centers, live migration and its importance for cloud computing, the role of firewalls in domains with particular focus on virtual machine (VM) migration and its security concerns. The book then tackles design, implementation of the frameworks and prepares test-beds for testing and evaluating VM migration procedures as well as firewall rule migration. The book demonstrates how cloud computing can produce an effective way of network management, especially from a security perspective.

Cloud Computing Venkata Josyula, Malcolm Orr, Greg Page, 2012 The complete guide to provisioning and managing cloud-based Infrastructure as a Service (IaaS) data center solutions Cloud computing will revolutionize the way IT resources are deployed, configured, and managed for years to come. Service providers and customers each stand to realize tremendous value from this paradigm shift--if they can take advantage of it. Cloud Computing brings together the realistic, start-to-finish guidance they need to plan, implement, and manage cloud solution architectures for tomorrow's virtualized data centers. It introduces cloud newcomers to essential concepts, and offers experienced operations professionals detailed guidance on delivering Infrastructure as a Service (IaaS), Platform as a Service (PaaS), and Software as a Service (SaaS). This book's replicable solutions and fully-tested best practices will help enterprises, service providers, consultants, and Cisco partners meet the challenge of provisioning end-to-end cloud infrastructures. Drawing on extensive experience working with leading cloud vendors and integrators, the authors present detailed operations workflow examples, proven techniques for operating cloud-based network, compute, and storage infrastructure; a comprehensive management reference architecture; and a complete case study demonstrating rapid, lower-cost solutions design. Cloud Computing will be an indispensable resource for all network/IT professionals and managers involved with planning, implementing, or managing the next generation of cloud computing services. Venkata (Josh) Josyula, Ph.D., CCIE(R) No. 13518 is a Distinguished Services Engineer in Cisco Services Technology Group (CSTG) and advises Cisco customers on OSS/BSS architecture and solutions. Malcolm Orr, Solutions Architect for Cisco's Services Technology Solutions, advises telecoms and enterprise clients on architecting, building, and operating OSS/BSS and cloud management stacks. He is Cisco's lead architect for several Tier 1 public cloud projects. Greg Page has spent the last eleven years with Cisco in technical consulting roles relating to data center architecture/technology and service provider security. He is now exclusively focused on developing cloud/IaaS solutions with service providers and systems integrator partners. - Review the key

concepts needed to successfully deploy clouds and cloud-based services - Transition common enterprise design patterns and use cases to the cloud - Master architectural principles and infrastructure designs for real-time managed IT services - Understand the Cisco approach to cloud-related technologies, systems, and services - Develop a cloud management architecture using ITIL, TMF, and ITU-TMN standards - Implement best practices for cloud service provisioning, activation, and management - Automate cloud infrastructure to simplify service delivery, monitoring, and assurance - Choose and implement the right billing/chargeback approaches for your business - Design and build IaaS services, from start to finish - Manage the unique capacity challenges associated with sporadic, real-time demand - Provide a consistent and optimal cloud user experience This book is part of the Networking Technology Series from Cisco Press(R), which offers networking professionals valuable information for constructing efficient networks, understanding new technologies, and building successful careers. Category: Cloud Computing Covers: Virtualized Data Centers

Virtualizing Oracle Databases on VSphere Kannan Mani,Don Sullivan,2014 Annotation Thousands of organizations are virtualizing large-scale Oracle database systems. But, until now, reliable best practices have been hard to find, and database and virtualization professionals have often brought differing and incompatible perspectives to the challenge. Now, there's a comprehensive best practice guide reflecting deep understanding of both Oracle and vSphere, and supported by extensive in-the-field experience with the full spectrum of applications and environments.

Introduction to the New Mainframe: z/VM Basics Lydia Parziale,Edi Lopes Alves,Klaus Egeler,Clive Jordan,Jason Herne,Eli M Dow,Eravimangalath P Naveen,Manoj S Pattabhiraman,Kyle Smith,IBM Redbooks,2008-01-10 This textbook provides students with the background knowledge and skills necessary to begin using the basic functions and features of z/VM Version 5, Release 3. It is part of a series of textbooks designed to introduce students to mainframe concepts and help prepare them for a career in large systems computing. For optimal learning, students are assumed to be literate in personal computing and have some computer science or information systems background. Others who will benefit from this textbook include z/OS professionals who would like to expand their knowledge of other aspects of the mainframe computing environment. This course can be used as a prerequisite to understanding Linux on System z. After reading this textbook and working through the exercises, the student will have received a basic understanding of the following topics: The Series z Hardware concept and the history of the mainframe Virtualization technology in general and how it is exploited by z/VM Operating systems that can run as guest systems under z/VM z/VM components The z/VM control program and commands The interactive environment under z/VM, CMS and its commands z/VM planning and administration Implementing the networking capabilities of z/VM Tools to monitor the performance of z/VM systems and guest operating systems The REXX programming language and CMS pipelines Security issues when running z/VM

Network Functions Virtualization (NFV) with a Touch of SDN Rajendra Chayapathi,Syed Farrukh Hassan,Paresh Shah,2016-11-14 Network Functions Virtualization (NFV) will drive dramatic cost reductions while also accelerating service delivery. Using NFV with SDN, network owners can provision new functions rapidly on demand, improve scalability, and leverage

microservices. Benefits like these will make NFV indispensable for service providers, mobile operators, telcos, and enterprises alike. Network Functions Virtualization (NFV) with a Touch of SDN is the first practical introduction to NFV's fundamental concepts, techniques, and use cases. Written for wide audiences of network engineers, architects, planners, and operators, it assumes no previous knowledge of NFV architecture, deployment, or management. The authors first explain how virtualization, VMs, containers, and related technologies establish the foundation for the NFV transformation. Next, they show how these concepts and technologies can be applied to virtualize network functions in the cloud, data centers, routing, security, and the mobile packet core. You'll discover new tools and techniques for managing and orchestrating virtualized network devices, and gain new clarity on how SDN and NFV interact and interrelate. By the time you're done, you'll be ready to assess vendor claims, evaluate architectures, and plan NFV's role in your own networks. Understand NFV's key benefits and market drivers Review how virtualization makes NFV possible Consider key issues associated with NFV network design and deployment Integrate NFV into existing network designs Orchestrate, build, and deploy NFV networks and cloud services Maximize operational efficiency by building more programmable, automated networks Understand how NFV and SDN work together Address security, programmability, performance, and service function chaining Preview evolving concepts that will shape NFV's future

Hardware and Software Support for Virtualization Edouard Bugnion, Jason Nieh, Dan Tsafir, 2022-06-01 This book focuses on the core question of the necessary architectural support provided by hardware to efficiently run virtual machines, and of the corresponding design of the hypervisors that run them. Virtualization is still possible when the instruction set architecture lacks such support, but the hypervisor remains more complex and must rely on additional techniques. Despite the focus on architectural support in current architectures, some historical perspective is necessary to appropriately frame the problem. The first half of the book provides the historical perspective of the theoretical framework developed four decades ago by Popek and Goldberg. It also describes earlier systems that enabled virtualization despite the lack of architectural support in hardware. As is often the case, theory defines a necessary—but not sufficient—set of features, and modern architectures are the result of the combination of the theoretical framework with insights derived from practical systems. The second half of the book describes state-of-the-art support for virtualization in both x86-64 and ARM processors. This book includes an in-depth description of the CPU, memory, and I/O virtualization of these two processor architectures, as well as case studies on the Linux/KVM, VMware, and Xen hypervisors. It concludes with a performance comparison of virtualization on current-generation x86- and ARM-based systems across multiple hypervisors.

Security on z/VM Paola Bari, Helio Almeida, Gary Detro, David Druker, Marian Gasparovic, Manfred Gnirss, Jean Francois Jiguet, IBM Redbooks, 2007-12-05 Discussions about server sprawl, rising software costs, going green, or moving data centers to reduce the cost of business are held in many meetings or conference calls in many organizations throughout the world. And many organizations are starting to turn toward System zTM and z/VM® after such discussions. The virtual machine operating system has over 40 years of experience as a hosting platform for servers, from the days of VM/SP, VM/XA,

VM/ESA® and especially now with z/VM. With the consolidation of servers and conservative estimates that approximately seventy percent of all critical corporate data reside on System z, we find ourselves needing a highly secure environment for the support of this infrastructure. This document was written to assist z/VM support and security personnel in providing the enterprise with a safe, secure and manageable environment. This IBM® Redbooks® publication provides an overview of security and integrity provided by z/VM and the processes for the implementation and configuration of z/VM Security Server, z/VM LDAP Server, IBM Tivoli® Directory Server for z/OS®, and Linux® on System z with PAM for LDAP authentication. Sample scenarios with RACF® database sharing between z/VM and z/OS, or through Tivoli Directory Integrator to synchronize LDAP databases, are also discussed in this book. This book provides information about configuration and usage of Linux on System z with the System z Cryptographic features documenting their hardware and software configuration. The Consul zSecure Pro Suite is also part of this document: this product helps to control and audit security not only on one system, but can be used as a single point of enterprise wide security control. This document covers the installation and configuration of this product and detailed information is presented on how z/Consul can be used to collect and analyze z/VM security data and how it can be helpful in the administration of your audit data.

The Virtualization Cookbook for IBM z Systems Volume 3: SUSE Linux Enterprise Server 12 Lydia Parziale,Berthold Gunreben,Filipe Miranda,Paul W Novak,Ken Werner,IBM Redbooks,2016-05-06 This IBM® Redbooks® publication is Volume 3 of a series of three books called The Virtualization Cookbook for IBM z Systems. The other two volumes are called: The Virtualization Cookbook for IBM z Systems Volume 1: IBM z/VM 6.3, SG24-8147 The Virtualization Cookbook for IBM z Systems Volume 2: Red Hat Enterprise Linux 7.1 Servers, SG24-8303 It is suggested that you start with Volume 1 of this series, because IBM z/VM® is the base layer when installing Linux on IBM z Systems™. Volume 1 starts with an introduction, describes planning, and then describes z/VM installation into a two-node, single system image (SSI) cluster, configuration, hardening, automation, and servicing. It adopts a cookbook format that provides a concise, repeatable set of procedures for installing and configuring z/VM using the SSI clustering feature. Volumes 2 and 3 describe how to roll your own Linux virtual servers on z Systems hardware under z/VM. The cookbook format continues with installing and customizing Linux. Volume 3 focuses on SUSE Linux Enterprise Server 12. It describes how to install and configure SUSE Linux Enterprise Server 12 onto the Linux administration system, which does the cloning and other tasks. It also explains how to use AutoYaST2, which enables you to automatically install Linux using a configuration file, and explains how to create and use appliances and bootable images from configuration files. In addition, it provides information about common tasks and tools available to service SUSE Linux Enterprise Server.

Mastering KVM Virtualization Humble Devassy Chirammal,Prasad Mukhedkar,Anil Vettathu,2016-08-19 Dive in to the cutting edge techniques of Linux KVM virtualization, and build the virtualization solutions your datacentre demands About This Book Become an expert in Linux virtualization Migrate your virtualized datacenter to the cloud Find out how to build a large scale virtualization solution that will transform your organization Who This Book

Is For Linux administrators – if you want to build incredible, yet manageable virtualization solutions with KVM this is the book to get you there. It will help you apply what you already know to some tricky virtualization tasks.

What You Will Learn Explore the ecosystem of tools that support Linux virtualization Find out why KVM offers you a smarter way to unlock the potential of virtualization Implement KVM virtualization using oVirt Explore the KVM architecture – so you can manage, scale and optimize it with ease Migrate your virtualized datacenter to the cloud for truly resource-efficient computing Find out how to integrate OpenStack with KVM to take full control of the cloud In Detail A robust datacenter is essential for any organization – but you don't want to waste resources. With KVM you can virtualize your datacenter, transforming a Linux operating system into a powerful hypervisor that allows you to manage multiple OS with minimal fuss. This book doesn't just show you how to virtualize with KVM – it shows you how to do it well. Written to make you an expert on KVM, you'll learn to manage the three essential pillars of scalability, performance and security – as well as some useful integrations with cloud services such as OpenStack. From the fundamentals of setting up a standalone KVM virtualization platform, and the best tools to harness it effectively, including virt-manager, and kimchi-project, everything you do is built around making KVM work for you in the real-world, helping you to interact and customize it as you need it. With further guidance on performance optimization for Microsoft Windows and RHEL virtual machines, as well as proven strategies for backup and disaster recovery, you'll can be confident that your virtualized data center is working for your organization – not hampering it. Finally, the book will empower you to unlock the full potential of cloud through KVM. Migrating your physical machines to the cloud can be challenging, but once you've mastered KVM, it's a little easie. Style and approach Combining advanced insights with practical solutions, Mastering KVM Virtualization is a vital resource for anyone that believes in the power of virtualization to help a business use resources more effectively.

Virtualization and Forensics Diane Barrett, Gregory Kipper, 2010

Virtualization and Forensics: A Digital Forensic Investigators Guide to Virtual Environments provides an introduction to virtualized environments and their implications on forensic investigations. It emphasizes the need for organizations using virtualization to be proactive rather than reactive. Being proactive means learning the methods in this book to train staff, so when an incident occurs, they can quickly perform the forensics and minimize the damage to their systems. The book is organized into three parts. Part I deals with the virtualization process and the different types of virtualized environments. It explains how virtualization happens along with the various methods of virtualization, hypervisors, and the main categories of virtualization. It discusses server virtualization, desktop virtualization, and the various portable virtualization programs, emulators, and appliances. Part II details how virtualization interacts with the basic forensic process. It describes the methods used to find virtualization artifacts in dead and live environments, and identifies the virtual activities that affect the examination process. Part III addresses advanced virtualization issues, such as the challenges of virtualized environments, cloud computing, and the future of virtualization. Named a 2011 Best Digital Forensics Book by InfoSec Reviews Gives you the end-to-end knowledge needed to identify server,

desktop, and portable virtual environments, including: VMware, Parallels, Microsoft, and Sun Covers technological advances in virtualization tools, methods, and issues in digital forensic investigations Explores trends and emerging technologies surrounding virtualization technology

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