Virtual Machine Sprawl

Ian Neil, Mark Birch

The Best Damn Server Virtualization Book Period Rogier Dittner, David Rule, 2011-04-18 Server Sprawl and escalating IT costs have managers and system administrators scrambling to find ways to cut costs and reduce Total Cost of Ownership of their physical infrastructure. Combining software applications onto a single server, even if those applications are from the same software vendor, can be dangerous and problems hard to troubleshoot. Virtualization allows you to consolidate many servers onto a single physical server reducing hardware, electrical, cooling, and administrative costs. These virtual servers run completely independent of each other so if one crashes the other are not affected. Planning and implementing a server consolidation is a complex process. This book details the requirements for such a project, includes sample forms and templates, and delivers several physical to virtual migration strategies which will save both time and costs. Readers of this book will easily be able to plan and deploy VMware, Microsoft Virtual Server, and Xen. Create a virtual network to exchange information or provide a service to other virtual machines or computers Use virtualization to support removable media such as CD or DVD optical disks Reduce server.

Cloud Computing and Virtualization Dac-Nhuong Le, Raghvendra Kumar, Gia Nhu Nguyen, Jyotir Moy Chatterjee, 2018-03-09 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.

Automating vSphere with VMware vCenter Orchestrator Cody Bunch, 2012-02-27 Unleash the Power of vCenter Orchestrator to Automate Tasks and Improve Efficiency Today, VMware administrators are responsible for far more infrastructure, servers, and services than ever before. To succeed, they must take full advantage of opportunities to automate and orchestrate their vSphere environments. In Automating vSphere with VMware vCenter Orchestrator, three-time vExpert Cody Bunch shows how to utilize VMware vCenter Orchestrator (vCO) 4.2 to achieve far higher levels of operational efficiency and effectiveness. Bunch reveals what vCO can do, walks through each step of installation and configuration, explains how its "moving parts" work together, and thoroughly introduces both plug-ins and workflows. Building on this core knowledge, he presents several start-to-finish case studies showing how to use vCO to address real-world challenges ranging from provisioning to snapshots, cluster management to decommissioning. Whatever your VMware virtualization environment, this book will help you do more with less, save time, eliminate errors, and improve both performance and reliability. Coverage includes Understanding how vCO fits into your environment and identifying your best opportunities to use it Choosing the right installation scenario and efficiently managing the vCO installation process Configuring vCO: services, passwords, networking, LDAP, databases, SSL, licensing, plug-ins, backup, and more Interacting with vCO through actions, packages, plug-ins, web views, resources, and workflows Automating manual tasks with vCO's extensive workflow library Creating sophisticated workflows with drag-and-drop components and JavaScript Using plug-ins to control infrastructure within and around your vSphere environment Bringing consistency to VM provisioning, overcoming "VM sprawl" and resource contention, and simplifying support Optimizing VM lifecycle management, all the way through decommissioning Automating all snapshot monitoring proc

The Best Damn Server Virtualization Book Period Rogier Dittner, David Rule, 2011 Server Sprawl and escalating IT costs have managers and system administrators scrambling to find ways to cut costs and reduce Total Cost of Ownership of their physical infrastructure. Combining software applications onto a single server, even if those applications are from the same software vendor, can be dangerous and problems hard to troubleshoot. Virtualization allows you to consolidate many servers onto a single physical server reducing hardware, electrical, cooling, and administrative costs. These virtual servers run completely independent of each other so if one crashes the other are not affected. Planning and implementing a server consolidation is a complex process. This book details the requirements for such a project, includes sample forms and templates, and delivers several physical to virtual migration strategies which will save both time and costs. Readers of this book will easily be able to plan and deploy VMware, Microsoft Virtual Server, and Xen. Create a virtual network to exchange information or provide a service to other virtual machines or computers Use virtualization to support removable media such as CD or DVD optical disks Reduce server costs, administration overhead, and complexity.

Virtualization Essentials Matthew Portnoy, 2023-03-31 Learn the fundamental concepts and skills by building your own virtual machine Virtualization is more important than ever, it's how the Cloud works! As virtualization continues to expand, millions of companies all over the world are leveraging virtualization. IT professionals need a solid understanding of virtualization concepts and software to compete in today's job market. The updated new edition of Virtualization Essentials teaches you the core concepts and skills necessary to work with virtualization environments. Designed for new and aspiring IT professionals alike, this practical guide offers an applied, real-world approach to help you develop the necessary skill set to work in Cloud computing, the DevOps space, and the rest of the virtual world.

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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.

Emerging Research in Cloud Distributed Computing Systems Bagchi, Susmit,2015-03-31 Traditional computing concepts are maturing into a new generation of cloud computing systems with wide-spread global applications. However, even as these systems continue to expand, they are accompanied by overall performance degradation and wasted resources. Emerging Research in Cloud Distributed Computing Systems covers the latest innovations in resource management, control and monitoring applications, and security of cloud technology. Compiling and analyzing current trends, technological concepts, and future directions of computing systems, this publication is a timely resource for practicing engineers, technologists, researchers, and advanced students interested in the domain of cloud computing.

Security on Z/VM, 2007

Towards a Service-Based Internet. ServiceWave 2010 Workshops Michel Cezon, Yaron Wolfsthal, 2011-10-12 This book constitutes the refereed proceedings of four workshops held in conjunction with the Third European Conference, ServiceWave 2010, held in Ghent, Belgium, in December 2010. The book includes 23 reviewed papers from four workshops that were selected from eight high-quality workshop session proposals. They represent diverse aspects of the theory and practice of service computing, ranging from service engineering to service infrastructures. The workshops are: First Workshop on Optimising Cloud Services (OCS 2010), International Workshop on Emergency Management through Service-Oriented Architectures (EMSOA 2010), First International Workshop on Service Modelling and Representation Techniques (SMART 2010), and From Event-Driven Business Process Management to Ubiquitous Complex Event Processing (EDBPM 2010).

Data Center Storage Hubbert Smith, 2016-04-19 We overspend on data center storage yet, we fall short of business requirements. It's not about the technologies. It's about the proper application of technologies to deliver storage services efficiently and affordably. It's about meeting business requirements dependent on data center storage. Spend less, deliver more. Data Center Storage: Cost-E

Virtualization 101 for Small Business and Enterprise Richard Honkanen, 2008-08 Research Paper (postgraduate) from the year 2008 in the subject Technology, grade: A+, Capilano University (Capilano University, Canada), 9 entries in the bibliography, language: English, abstract: Virtualization is a new and emerging technology that is rapidly growing, taking industry by storm. In business, virtualization has become a new buzz word, but not many decision-makers actually understand what it is. In today's fiercely competitive world, it is crucial for decisionmakers to learn more about virtualization to see if it can give their organizations leverage over their competition. Not only that, virtualization can save businesses of all sizes a lot of money. Summed up in one sentence, virtualization is an information technology (IT) logistics strategy that can save businesses time and money. Today, most IT data centers use one machine for one server (e.g. one machine to serve e-mail, one for data, one for the website, etc.), causing server sprawl. Eventually businesses run out of room for new machines, leaving them stuck in a bad position. With virtualization, each server's programs, files, and processes are merged into one file (an image), and is then placed among other images on one machine. Consolidation of IT resources improves server utilization and consequently increases efficiency, lowers the electricity bill, and reduces physical footprint. It also makes deploying new servers cheap. A different approach to virtualization is making multiple physical resources appear as one physical resource, simplifying data-center operations and network administration through one consolidated virtual environment. The advantages of virtualization are almost infinite, but the main points are business continuity, saving money through outsourcing data-processing (cloud computing), and preserving legacy applications. The disadvantages are possible security problems, an initial investment up-front, and uncertainty about the roll-out process

CompTIA A+ Practice Tests Core 1 (220-1101) and Core 2 (220-1102) Ian Neil, Mark Birch, 2023-11-17 Efficiently prepare for both CompTIA A+ Core 1 and Core 2 exams with a variety of exam-oriented practice questions to ensure that your knowledge is tested thoroughly Key Features Ensure a comprehensive understanding of each exam domain with in-depth practice Enhance your problem-solving skills by working with real-world scenarios Assess your exam readiness with mock exams for both Core 1 and Core 2 Purchase of this book unlocks access to web-based exam prep resources including practice questions, flashcards, and exam tips Book DescriptionThe CompTIA A+ exam is not only a valuable foundational certification, but also the key to unlocking a world of exciting career possibilities in the ever-dynamic IT landscape. This book combines the best-in-class practice tests for the exam, offering a substantial volume of exam-oriented practice material and mirroring the A+ exam's level of difficulty to ensure that you are not just prepared, but brimming with confidence when you sit for the A+ exam. The book begins with Core 1, delving into mobile devices, networking, hardware, virtualization, cloud computing, and troubleshooting. The chapters help you consolidate foundational knowledge essential for supporting computer software and hardware. As you progress to Core 2, you'll review the knowledge you need to support common operating systems and software installations. This book grants you lifelong access to valuable supplementary resources available on an online platform, which include A+ flashcards and invaluable exam insights. With unlimited website access, you'll have the freedom to practice as often as you wish, optimizing your readiness for the exam. By the end of this book, you'll be fully prepared to confidently take both the CompTIA A+ Core 1 and Core 2 exams. What you will learn Expertly diagnose and resolve hardware, software, and networking issues Navigate Microsoft Windows, macOS, Linux, and more with confidence Secure wireless networks and protect against threats Troubleshoot problems related to motherboards, RAM, CPU, and power Skillfully use Microsoft command-line tools Implement workstation backup and recovery methods Utilize remote access technologies with ease Assess your proficiency in communication techniques and professional conduct Who this book is forWhether you're a student or a professional, if you're on a mission to ace the CompTIA A+ exam, this book is for you. This book isn't meant for teaching theory; instead, it will evaluate your retention of studied information and your exam readiness.

<u>Virtual Machines</u> Iain D. Craig, 2010-05-17 I love virtual machines (VMs) and I have done for a long time. If that makes me sad or an anorak, so be it. I love them because they are so much fun, as well as being so useful. They have an element of original sin (writing assembly programs and being in control of an entire machine), while still being able to claim that one is being a respectable member of the community (being structured, modular, high-level, object-oriented, and so on). They also allow one to design machines of one's own, unencumbered by the restrictions of a starts optimising it for some physical particular processor (at least, until one processor or other). I have been building virtual machines, on and off, since 1980 or there abouts. It has always been something of a hobby for me; it has also turned out to be a technique of great power and applicability. I hope to continue working on them, perhaps on some of the ideas outlined in the last chapter (I certainly want to do some more work with register-based VMs and concur rency). I originally wanted to write the book from a purely semantic viewpoint.

Virtual Machines James Edward Smith, Jim Smith, Ravi Nair, 2005-06-03 In this text, Smith and Nair take a new approach by examining virtual machines as a unified discipline and pulling together cross-cutting technologies. Topics include instruction set emulation, dynamic program translation and optimization, high level virtual machines (including Java and CLI), and system virtual machines for both single-user systems and servers.

The Definitive Guide to Virtual Platform Management Realtimepublishers.com, 2007

IBM Security Solutions Architecture for Network, Server and Endpoint Axel Buecker, Kent Browne, Louis Foss, Jaco Jacobs, Vladimir Jeremic, Carsten Lorenz, Craig Stabler, Joris Van Herzele, IBM Redbooks, 2011-02-17 Threats come from a variety of sources. Insider threats, as well as malicious hackers, are not only difficult to detect and prevent, but many times the authors of these threats are using resources without anybody being aware that those threats are there. Threats would not be harmful if there were no vulnerabilities that could be exploited. With IT environments becoming more complex every day, the challenges to keep an eye on all potential weaknesses are skyrocketing. Smart methods to detect threats and vulnerabilities, as well as highly efficient approaches to analysis, mitigation, and remediation, become necessary to counter a growing number of attacks against networks, servers, and endpoints in every organization. In this IBM® Redbooks® publication, we examine the aspects of the holistic Threat and Vulnerability Management component in the Network, Server and Endpoint domain of the IBM Security Framework. We explain the comprehensive solution approach, identify business drivers and issues, and derive corresponding functional and technical requirements, which enables us to choose and create matching security solutions. We discuss IBM Security Solutions for Network, Server and Endpoint to effectively counter threats and attacks using a range of protection technologies and service offerings. Using two customer scenarios, we apply the solution design approach and show how to address the customer requirements by identifying the corresponding IBM service and software products.

Virtualization and Forensics Diane Barrett, Greg Kipper, 2010-08-06 Virtualization and Forensics: A Digital Forensic Investigators Guide to Virtual Environments offers an in-depth view into the world of virtualized environments and the implications they have on forensic investigations. Named a 2011 Best Digital Forensics Book by InfoSec Reviews, this guide gives you the end-to-end knowledge needed to identify server, desktop, and portable virtual environments, including: VMware, Parallels, Microsoft, and Sun. It covers technological advances in virtualization tools, methods, and issues in digital forensic investigations, and explores trends and emerging technologies surrounding virtualization technology. This book consists of three parts. Part I explains the process of virtualization and the different types of virtualized environments. Part II details how virtualization interacts with the basic forensic process, describing the methods used to find virtualization artifacts in dead and live environments as well as identifying 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. This book will be a valuable resource for forensic investigators (corporate and law enforcement) and incident response professionals. 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

Cloud Native Apps on Google Cloud Platform Alasdair Gilchrist, 2022-04-13 Step-by-step guide for developing cloud native apps on GCP powered by hands-on interactive learning KEY FEATURES ● Cutting-edge coverage on Google Cloud Build, Cloud Run, GKE, Kubectl and Anthos. ● Includes tutorials and exercises to learn designing, deploying and running cloud native apps. ● Covers Service Mesh, Apps Optimization, logs monitoring and cloud IAM access. DESCRIPTION The book "Cloud Native Apps on Google Cloud Platform" teaches the readers how to design, construct, and maintain successful cloud-native apps using the Google Cloud Platform. With interactive tutorials, the book reinforces learning and helps to develop practical skills for working in an Agile and DevOps context. The book provides a step-by-step approach to building and managing cloud-native applications on Google Cloud Platform for Google Cloud Users, DevOps teams, and Cloud-Native Developers. First, you will investigate the advantages and applicability of each Google Serverless Computing option. You'll learn about Cloud Build and how to use it to prepare code files, create microservices, and build container images. The book walks readers through creating and running Docker image containers on Cloud Run and App Engine. You'll learn how to use kubectl to create and manage Kubernetes clusters, as well as how to configure the autoscaler for increased resilience and availability. You'll build a pipeline that uses Cloud Build to automate CI/CD and Pub/Sub to ingest streaming data. Finally, you'll have the opportunity to learn about Anthos, which enables you to manage massive GKE clusters in both Cloud and on-premises environments. WHAT YOU WILL LEARN ● Distinguish between using containers or microservices for cloud native apps. ● Build a streaming data pipeline using BigQuery and Dataflow using Pub/Sub. ● Practice to deploy and optimize cloud native applications on Kubernetes Engine. ● Build continuous integration/continuous delivery pipelines and improve Kubernetes apps. • Learn to protect apps running on GCP from cyberattacks. WHO THIS BOOK IS FOR This book is meant for the Cloud and DevOps professionals and for those who wish to learn about Google Cloud services and incorporate them into end-to-end cloud applications. TABLE OF CONTENTS 1. Introducing Cloud Native Apps 2. Developing Cloud Native Apps with Cloud Shell 3. Preparing Source-Code with Cloud Build 4. Create and Deploy Microservices 5. Building and Deploying Containers in Cloud Build 6. Create a Serverless Pipeline with Pub/Sub, Dataflow and BigQuery 7. Container Orchestration with Google Kubernetes Engine 8. Deploying and Managing Kubernetes Applications 9. Optimizing Kubernetes Cluster and Apps in GKE 10. Deploying a CI/CD Pipeline with Kubernetes and Cloud Build 11. Build a Software Delivery Platform with Anthos 12. Application Management with Anthos 13. Securing Cloud Native Apps in

Advanced Server Virtualization David Marshall, Wade A. Reynolds, Dave McCrory, 2006-05-17 Executives of IT organizations are compelled to quickly implement server virtualization solutions because of significant cost savings. However, most IT professionals tasked with deploying virtualization solutions have little or no experience with the technology. This creates a high demand for information on virtualization and how to properly implement it in a datacenter. Advanced Server Virtualization: VMware® and Microsoft® Platforms in the Virtual Data Center focuses on the core knowledge needed to evaluate, implement, and maintain an environment that is using server virtualization. This book emphasizes the design, implementation and management of server virtualization from both a technical and a consultative point of view. It provides practical guides and examples, demonstrating how to properly size and evaluate virtualization technologies. This volume is not based upon theory, but instead on real world experience in the implementation and management of large scale projects and environments. Currently, there are few experts in this relatively new field, making this book a valuable resource The book is divided into major sections making it both a step-by-step guide for learning and implementing server virtualization as well as a quick reference. The chapter organization focuses first on introducing concepts and background, and then provides real-world scenarios.

Virtualizing Microsoft Business Critical Applications on VMware VSphere Matt Liebowitz, Alex Fontana, 2013 Best practices, guidance, and tips for virtualizing Microsoft® business critical applications on the VMware vSphere® platform By virtualizing Microsoft's enterprise applications on vSphere, you can drive down costs while migrating toward flexible, low-cost private cloud architectures. This unique guidebook bridges the gap between the Microsoft and VMware worlds, bringing together the deep knowledge, cutting-edge best practices, and practical techniques you need to succeed. Leading experts Matt Liebowitz and Alex Fontana present end-to-end coverage of virtualizing Windows Server 2012 AD domain controllers and failover clusters, Exchange Server 2013, SQL Server 2012, and SharePoint Server 2013. They offer indispensable advice on sizing, architecture, performance, availability, monitoring, and metrics. Throughout, the authors share valuable tips, tricks, and insights from their own experiences. For each Microsoft application, they provide proof of concept sample configurations and clearly explain how new features impact virtualization. You'll also find authoritative, up-to-date guidance on licensing and other issues related to ensuring full support from both Microsoft and VMware.

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