Hard Partitioning And Virtualization With Oracle Virtual

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Unix Administration Quick Guide - Saket Jain 2015-05-20
This book not only delivers the theoretical concept of UNIX, but also describes how we can work on it in a live environment. It's just like a "Two in One" package where not only you clear your theoretical concept, but also you get a clear practical view and makes you capable of managing your own UNIX server(s) or home PC. It provides various theoretical and practical concepts in the form of quick tips which attracts a user while reading and develops a crystal clear understanding of various UNIX core concepts which are usually missed when you read a normal UNIX book, which will also prepare you for a UNIX or Linux interview or exam. Since this book is written by an administrator who works on managing live UNIX servers, so it also emphases how to troubleshoot various issues and bring the system and services up in case of any failure.
Expert Linux Administration Guide - Vishal Rai 2022-06-08
Linux administration based on hosted virtualization KEY FEATURES ● Designed for absolute beginners and early Linux users with the most up-to-date knowledge. ● Contains troubleshooting tips and best practices for running a Linux system on your own. ● Supplemental knowledge and insights in server security, threat management, and virtualization. DESCRIPTION 'Expert Linux Administration Guide' is for the readers who are interested in developing the skills and abilities essential to operate as a professional Linux system administrator. This is the only book that explains everything about Linux practically through examples, simplified visuals, solution tips, and expert-led best practices. This book begins with an introduction to Linux fundamentals and swiftly progresses to the day-to-day tasks of a Linux administrator. You practically learn how to plan your network by installing Linux and gaining a firm grasp of its file system and system configuration. This book covers all the Linux server settings, including DNS, mail servers, Squid proxy servers, and backup recovery. In addition, the book contains troubleshooting hints and ready-to-use solutions for server configuration, load balancing, firewall configuration, network security concerns, and virtualization. The book does not end here, as it discusses some of the advanced administrator's responsibilities. Topics such as monitoring system performance, process controls, user provisioning, file and database recovery and backup, and software package upgrades are also covered. By the end of this book, you'll be able to practise and implement the latest system administration techniques in a Linux environment considerably more effectively. WHAT YOU WILL LEARN ● Learn to install and configure Linux servers quickly. ● Manage configurations, license software, and patch security flaws. ● Obtain the highest level of support for RAID configurations. ● Learn how to set up database servers, backups, and system recovery. ● Expert advice on firewalls, web

servers, disc utilization, and network resources. WHO THIS BOOK IS FOR This book is intended for System Managers, System Administrators, Network Administrators, Server Administrators, System Engineers, and others interested in becoming professional Linux Administrators. No prerequisite knowledge is required, as the book covers everything clearly and precisely. TABLE OF CONTENTS 1. Linux Fundamental 2. Files, Directories & User Management 3. File Compression and Archival 4. Performing Search 5. Vi Editor 6. Linux Installation 7. System Initialization 8. Overview of Network commands 9. Firewall Setup 10A. Partition System in CentOS7/8 10B. LVM and ISCSI CentOS7/8 11. YUM Server 12. Telnet 13. Domain Name System 14. Dynamic Host Control Protocol 15. Unified Threat Management (UTM) 16. Squid Web Proxy 17. Apache Web Server 18. Linux as a Router 19. NIS Server 20. NFS Server 21. File Transfer Protocol 22. Samba Configuration 23. Mail Server Configuration 24. Linux Hardening 25. Load Balancer 26. Setup Network Printer Services 27. System Backup and Restore Process 28. Linux Virtualization KVM 29. Introduction to Open-Source tools 30. Troubleshooting Network Issues

DB2 Virtualization - Whei-Jen Chen 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 SystemsTM with PowerVMTM 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.

MCSA Guide to Installing and Configuring Microsoft Windows Server 2012 /R2, Exam 70-410 - Greg Tomsho 2014-06-18

MCSA Guide to Installing and Configuring Microsoft Windows Server 2012 /R2, Exam 70-410helps readers thoroughly prepare for the MCSE/MCSA certification exam-as well as the real-world challenges of a Microsoft networking professional. Extensive coverage of all exam objetives begins with an introduction to Windows Server 2012/R2 and continues with coverage of server management, configuration of storage, file and printer services, Active Directory , account management, Group Policy, TCP/IP, DNS, DHCP and Hyper-V virtualization. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

Oracle Solaris 11 System Virtualization Essentials - Jeff Victor 2017-02-09

A Concise, Up-to-Date Guide to Oracle Virtualization Technologies, Including Oracle Solaris Zones, Oracle VM Server for SPARC, Physical Domains, and Oracle VM Virtual Box Oracle® Solaris 11 System Virtualization Essentials, Second Edition, has been fully updated for Oracle 11 and is a complete, practical, and up-to-date guide to selecting, implementing, and applying today’s Oracle virtualization technologies to real-world business problems. Four Oracle experts thoroughly cover

current Oracle Solaris virtualization options. They help you understand key use cases, including consolidation, asynchronous workloads, software development, testing/staging, workload mobility, legacy OS support, provisioning, scalability, fine-grained OS changes, and security. They also compare and address each leading approach to virtualization: OS virtualization, hypervisor-based virtual machines, and hardware partitioning. The authors illuminate the use of virtualization with many Oracle software applications and engineered systems, including SuperCluster, Secure Enterprise Cloud Infrastructure, Exalytics, Oracle Database, and security hardening scenarios. Bringing together case study examples and in-the-trenches experience, this guide explains how to Leverage Oracle Solaris Zones to improve security, deployment, resource usage, and management Use Logical Domains to deploy different versions of Oracle Solaris on SPARC systems Maximize workload isolation on SPARC systems with Physical Domains Use Oracle Solaris Zones to optimize workload efficiency and scalability Improve data center flexibility with live migration Develop and test software in heterogeneous environments with Oracle VM Virtual Box Mix virtualization technologies to maximize workload density Migrate Solaris 10 workloads to new hardware via Solaris Zones Register your product at informit.com/register for convenient access to downloads, updates, and corrections as they become available.

VMware Cookbook - Ryan Troy 2009-10-23

If you want to gain insight into the real-world uses of VMware ESX and ESXi, this book provides scores of step-by-step solutions for working with these products in a wide range of network environments. You'll not only learn the basics -- how to pool resources from hardware servers, computer clusters, networks, and storage, and then distribute them among virtual machines -- but also the stumbling blocks you'll encounter when you monitor systems, troubleshoot problems, and deal with security. In addition to the recipes, VMware Cookbook includes background information to help you determine your virtualization needs. You'll come to view VMware as part of the real environment, alongside operating systems, storage, and logical and physical network components. Follow best practices for installing VMware in your environment Discover how to secure and monitor your network Understand disk storage implementation and configuration Learn resource management using the distributed resource scheduler, shares, and resource pools Configure logical and physical networks Learn how to clone and migrate servers Gain valuable tips for configuration and fine-tuning Many resources can teach you about virtualization and the basics of VMware. This book is for system administrators who are ready to go beyond an introduction.

Designing Hyper-V Solutions - Saurabh Grover 2015-08-07

Deploy Microsoft Virtualization and VDI solutions using real-world Hyper-V configurations About This Book Get acquainted with the basics of Windows Server Hyper-V 2012 R2 and understand how to efficiently design a highly available virtualization solution Assess your physical server environment and understand the fundamentals of server consolidation and sizing of Hyper-V hosts Design practical solutions for common design patterns with explanations of these design decisions Who This Book Is For This book is aimed at IT admins, consultants, and architects alike who wish to deploy, manage, and maintain Hyper-V solutions in organizations of various sizes. Readers are expected to have a working knowledge of managing Windows Servers and a fair understanding of networking and storage concepts. What You Will Learn Set up independent and highly available clustered Hyper-V hosts via GUI and PowerShell Acquire knowledge about Generation 1 and 2 Virtual Machines, their creation and management, and also look at the VM Conversion process Understand NIC Teaming, Extensible Virtual Switch, and other networking advancements Gain insight into virtual machine storage changes and its follow-up benefits Discover backup and recovery patterns for Hyper-V Familiarize yourself with the essentials of Hyper-V Replica Leverage the benefits of Microsoft VDI In Detail The IT community has already experienced the benefits of server virtualization. However, they were limited to one option primarily until Microsoft released its flagship Hypervisor platform. Windows Server Hyper-V 2012 and R2 along with Hyper-V Server 2012 and R2 present a cost effective

yet robust virtualization solution to enterprises who wish to consolidate their physical server workloads or migrate their pre-existing VMware workloads to Hyper-V. Hyper-V has proven to be a stable and an economical virtualization solution and with its high availability, live migration, and new network virtualization and storage enhancement features, enterprises will never feel the need to consider another alternative. This book is a practical, example-oriented tutorial that will guide you through the basics and architecture of the Hyper-V platform and thereafter help you understand how to build your Virtualization infrastructure from the ground up. The book then goes on to focus on scalability and high availability aspects and trains you in setting up highly available Hyper-V clusters and the live migration of virtual machines. You will also learn about the advancements in virtual networking and storage in Windows Server 2012. After the implementation guidance, the book then advises you on how to set up backup and recovery and how to prepare a disaster recovery plan via Hyper-V Replica. The book concludes with a good insight into Microsoft VDI implementation guidance. Style and approach This is a handy and easy-to-follow guide that describes virtualization concepts and the Hyper-V design approach. Each topic is explained sequentially and is enhanced with real-world scenarios, practical examples, screenshots, and step-by-step explanations to help readers understand clearly.

Introduction to the New Mainframe: z/VM Basics - Lydia Parziale 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

CLOUD COMPUTING - RAO, M.N. 2015-05-21

Cloud Computing has grown popular as a new prototype for providing services over the Internet. This introductory textbook on Cloud Computing is suitable for undergraduate students of computer science engineering, and for postgraduate students of computer science and computer applications. It teaches both the basic concepts and cloud technologies by adopting a straightforward approach of presenting theoretical concepts and cloud models. Several Cloud providers of distinct types are discussed here with their advantages and disadvantages. Different cloud services are also covered in this book. The book advances on the cloud architecture and cloud examples that are latest in market. Salient Features Clear and concise explanations Discussion on cloud models with diagrams In-depth analysis of various cloud architectures Numerous case studies Several questions from previous question papers

Enterprise Grid Computing with Oracle - Brajesh Goyal 2006-07-27

Provides informaton on enterprise grid computing in the Oracle environment.

Capacity Management - A Practitioner Guide - Adam Grummit 2009-07-29

Capacity Management is described in most key ITSM frameworks: ITIL, ISO 20000 Microsoft Operations Framework (MOF) and the Application Service Library (ASL) all note the importance of Capacity Management.

This major title meets the need for an in-depth practical guide to this critical process. Written and reviewed by some of the world's most respected experts in this field it shows how Capacity Management best practice can support provision of a consistent, acceptable service level at a known and controlled cost. Practical advice covers the essential control of two balances: Supply versus demand and resources versus cost. In times of mean, frugal economic measures, it is essential to focus on those practices that are effective and yield practical results. In enlightened times of sustainability, it is also a requirement to find solutions that satisfy the criteria for 'greenness'. This excellent title shows how Capacity Management works not only within an IT environment but also why it is pivotal in meeting high profile business demands. Aligns with ISO/IEC 20000 and ITIL® ISO/IEC lists a set of required capacity management deliverables ITIL outlines what should be done in capacity management this book starts to describe how to do it Covers details of what capacity management is all about: what is capacity management - why do it – benefits and cost-benefit analysis how to do it – data-flows and activities who does it – roles and perspectives implementation, maintenance, improvement, tools Provides comprehensive templates and checklists: objectives, interfaces and data-flows, sub-practices and activities metrics, application sizing parameters, data for modelling - deliverables, reports, CMMI levels, KPIs, risk matrix sample capacity plan

It Infrastructure Architecture - Infrastructure Building Blocks and Concepts Second Edition - Sjaak Laan 2012-12-16

For many decades, IT infrastructure has provided the foundation for successful application deployment. Yet, general knowledge of infrastructures is still not widespread. Experience shows that software developers, system administrators, and project managers often have little knowledge of the big influence IT infrastructures have on the performance, availability and security of software applications. This book explains the concepts, history, and implementation of IT infrastructures. Although many of books can be found on individual infrastructure building blocks, this is the first book to describe all of them: datacenters, servers, networks, storage, virtualization, operating systems, and end user devices. Whether you need an introduction to infrastructure technologies, a refresher course, or a study guide for a computer science class, you will find that the presented building blocks and concepts provide a solid foundation for understanding the complexity of today's IT infrastructures.

Oracle VM 3 Cloud Implementation and Administration Guide, Second Edition - Edward Whalen 2017-09-22

Master Cloud building with Oracle VM 3 installation, configuration, and maintenance Set up, configure, and manage a dynamic virtualization platform across your enterprise using the detailed information contained in this Oracle Press guide. The book shows, step-by-step, how to size servers for Oracle VM, choose and deploy virtualization hardware and manage the environment as the foundation for a private cloud infrastructure. Real-world examples and valuable best practices are featured throughout. Oracle VM 3 Cloud Implementation and Administration Guide lays out key virtualization concepts and clearly explains every aspect of Oracle VM architecture. From there, you will learn how design server farms, build and maintain virtual machines, handle provisioning and cloning, work with Oracle VM Manager, and incorporate solid security procedures. Advanced topics such as Disaster Recovery design and implementation, Cloud management with Oracle Enterprise Manager Cloud Control and advanced storage and network integration aspects are fully covered. • Features tips, techniques, and tools for optimizing Oracle products on Oracle VM • Contains expert, hands-on advice on tackling the most common challenges • Written by a team of Oracle professionals with extensive VM experience

High-Performance Oracle - Geoff Ingram 2002-10-15

"Geoff Ingram has met the challenge of presenting the complexprocess of managing Oracle performance. This book can support everytechnical person looking to resolve Oracle8i and Oracle9iperformance issues." -Aki Ratner, President, Precise Software Solutions Ensuring high-performance and continuous availability of Oraclesoftware is a key focus of database managers. At least a dozenbooks address the subject of

"performance tuning"-- that is, how tofine-tune the Oracle database for its greatest processingefficiency. Geoff Ingram argues that this approach simply isn'tenough. He believes that performance needs to be addressed rightfrom the design stage, and it needs to cover the entire system--notjust the database. High-Performance Oracle is a hands-on book, loaded with tips andtechniques for ensuring that the entire Oracle database system runsefficiently and doesn't break down. Written for Oracle developersand DBAs, and covering both Oracle8i and Oracle9i, the book goesbeyond traditional performance-tuning books and covers the keytechniques for ensuring 24/7 performance and availability of thecomplete Oracle system. The book provides practical solutions for: * Choosing physical layout for ease of administration and efficientuse of space * Managing indexes, including detecting unused indexes andautomating rebuilds * SQL and system tuning using the powerful new features in Oracle9iRelease 2 * Improving SQL performance without modifying code * Running Oracle Real Application Clusters (RAC) for performanceand availability * Protecting data using Recover Manager (RMAN), and physical andlogical standby databases The companion Web site provides the complete source code forexamples in the book, updates on techniques, and additionaldocumentation for optimizing your Oracle system.

Mastering KVM Virtualization - Vedran Dakic 2020-10-23

Learn how to configure, automate, orchestrate, troubleshoot, and monitor KVM-based environments capable of scaling to private and hybrid cloud models Key FeaturesGain expert insights into Linux virtualization and the KVM ecosystem with this comprehensive guideLearn to use various Linux tools such as QEMU, oVirt, libvirt, Cloud-Init, and Cloudbase-InitScale, monitor, and troubleshoot your VMs on various platforms, including OpenStack and AWSBook Description Kernel-based Virtual Machine (KVM) enables you to virtualize your data center by transforming your Linux operating system into a powerful hypervisor that allows you to manage multiple operating systems with minimal fuss. With this book, you'll gain insights into configuring, troubleshooting, and fixing bugs in KVM virtualization and related software. This second edition of Mastering KVM Virtualization is updated to cover the latest developments in the core KVM components - libvirt and QEMU. Starting with the basics of Linux virtualization, you'll explore VM lifecycle management and migration techniques. You'll then learn how to use SPICE and VNC protocols while creating VMs and discover best practices for using snapshots. As you progress, you'll integrate third-party tools with Ansible for automation and orchestration. You'll also learn to scale out and monitor your environments, and will cover oVirt, OpenStack, Eucalyptus, AWS, and ELK stack. Throughout the book, you'll find out more about tools such as Cloud-Init and Cloudbase-Init. Finally, you'll be taken through the performance tuning and troubleshooting guidelines for KVM-based virtual machines and a hypervisor. By the end of this book, you'll be well-versed with KVM virtualization and the tools and technologies needed to build and manage diverse virtualization environments. What you will learnImplement KVM virtualization using libvirt and oVirtDelve into KVM storage and networkUnderstand snapshots, templates, and live migration featuresGet to grips with managing, scaling, and optimizing the KVM ecosystemDiscover how to tune and optimize KVM virtualization hostsAdopt best practices for KVM platform troubleshootingWho this book is for If you are a systems administrator, DevOps practitioner, or developer with Linux experience looking to sharpen your open-source virtualization skills, this virtualization book is for you. Prior understanding of the Linux command line and virtualization is required before getting started with this book.

Guide to Parallel Operating Systems with Windows 10 and Linux - Ron Carswell 2015-01-26

Readers examine two of the most prominent operating systems -- Windows 10 and Linux CentOS7 -- in parallel with the unique approach found only in GUIDE TO PARALLEL OPERATING SYSTEMS WITH WINDOWS 10 AND LINUX, 3E. Rather than using a compare and contrast model, the book presents each topic conceptually before demonstrating it simultaneously on both operating systems. Readers can instantly switch between Windows 10 and Linux CentOS 7 to complete

the myriad of hands-on activities that reinforce the similarities between the two operating systems for each conceptual task. The text's virtualization approach provides flexibility that enables readers to use Microsoft Hyper-V Client, Oracle VirtualBox, or VMWare Workstation. This comprehensive guide helps users develop the competencies needed in Windows 10 and Linux to maximize success in today's classroom or tomorrow's business environment. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

Network World - 2003-02-24

For more than 20 years, Network World has been the premier provider of information, intelligence and insight for network and IT executives responsible for the digital nervous systems of large organizations. Readers are responsible for designing, implementing and managing the voice, data and video systems their companies use to support everything from business critical applications to employee collaboration and electronic commerce.

Virtualization and Forensics - Diane Barrett 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 Computing - Victor C.M. Leung 2015-03-07

This book constitutes the thoroughly refereed post conference proceedings of the 5th International Conference on Cloud Computing, CloudComp 2014, held in Guilin, China, in October 2014. The 25 revised full papers were carefully reviewed and selected from 72 submissions and cover topics such as mobile cloud computing, services, applications, IoT on cloud, architectures and big data, cloud-assisted pervasive computing and services, management and virtualization for cloud, cloud security.

Operating System Concepts - Abraham Silberschatz 2014

The ninth edition of Operating System Concepts continues to evolve to provide a solid theoretical foundation for understanding operating systems. This edition has been updated with more extensive coverage of the most current topics and applications, improved conceptual coverage and additional content to bridge the gap between concepts and actual implementations. A new design allows for easier navigation and enhances reader motivation. Additional end–of–chapter, exercises, review questions, and programming exercises help to further reinforce important concepts. WileyPLUS, including a test bank, self–check exercises, and a student solutions manual, is also part of the comprehensive support package.

Expert Consolidation in Oracle Database 12c - Martin Bach 2014-01-23

Expert Consolidation in Oracle Database 12c is your key to reducing data management costs and increasing data center efficiency. Consolidation

and cloud computing are converging trends sweeping the industry. The same technologies enabling cloud computing enable consolidation as well, leading to savings on all fronts from the amount of power used for servers to the amount of floor space consumed to the number of administrators needed to manage an installation. Yet the consolidation process can be a long and winding road. Success requires planning, and consideration to the impacts on supporting infrastructure. Expert Consolidation in Oracle Database 12c guides you through planning and implementing a consolidated Oracle Database installation using the many new features built into the latest release of Oracle's database management system. You'll learn to identify candidates for consolidation and to recognize instances that are best left stand-alone. The book guides in working with clustered systems and ASM storage in the consolidated environment. Focus is given to Oracle Enterprise Manager 12c Cloud Control as a monitoring and management dashboard. Always the goal is to drive towards a cost-effective environment that is efficient both in technology and people. Focuses on the new consolidation features in Oracle Database 12c Helps you evaluate and correctly decide when to consolidate Leads to cost savings and improved data center efficiency

Oracle Solaris 11 System Virtualization Essentials - Jeff Victor 2016-09-05

A Concise, Up-to-Date Guide to Oracle Virtualization Technologies, Including Oracle Solaris Zones, Oracle VM Server for SPARC, Physical Domains, and Oracle VM Virtual Box Oracle® Solaris 11 System Virtualization Essentials, Second Edition, has been fully updated for Oracle 11 and is a complete, practical, and up-to-date guide to selecting, implementing, and applying today's Oracle virtualization technologies to real-world business problems. Four Oracle experts thoroughly cover current Oracle Solaris virtualization options. They help you understand key use cases, including consolidation, asynchronous workloads, software development, testing/staging, workload mobility, legacy OS support, provisioning, scalability, fine-grained OS changes, and security. They also compare and address each leading approach to virtualization: OS virtualization, hypervisor-based virtual machines, and hardware partitioning. The authors illuminate the use of virtualization with many Oracle software applications and engineered systems, including SuperCluster, Secure Enterprise Cloud Infrastructure, Exalytics, Oracle Database, and security hardening scenarios. Bringing together case study examples and in-the-trenches experience, this guide explains how to Leverage Oracle Solaris Zones to improve security, deployment, resource usage, and management Use Logical Domains to deploy different versions of Oracle Solaris on SPARC systems Maximize workload isolation on SPARC systems with Physical Domains Use Oracle Solaris Zones to optimize workload efficiency and scalability Improve data center flexibility with live migration Develop and test software in heterogeneous environments with Oracle VM Virtual Box Mix virtualization technologies to maximize workload density Migrate Solaris 10 workloads to new hardware via Solaris Zones Register your product at informit.com/register for convenient access to downloads, updates, and corrections as they become available.

Developing Essbase Applications - Cameron Lackpour 2012-06-13

If you love Essbase and hate seeing it misused, then this is the book for you. Written by 12 Essbase professionals that are either acknowledged Essbase gurus or certified Oracle ACEs, Developing Essbase Applications: Advanced Techniques for Finance and IT Professionals provides an unparalleled investigation and explanation of Essbase theory and best practices. Detailing the hows and the whys of successful Essbase implementation, the book arms you with simple yet powerful tools to meet your immediate needs, as well as the theoretical knowledge to proceed to the next level with Essbase. Infrastructure, data sourcing and transformation, database design, calculations, automation, APIs, reporting, and project implementation are covered by subject matter experts who work with the tools and techniques on a daily basis. In addition to practical cases that illustrate valuable lessons learned, the book offers: Undocumented Secrets—Dan Pressman describes the previously unpublished and undocumented inner workings of the ASO Essbase engine. Authoritative Experts—If you have questions that no one

else can solve, these 12 Essbase professionals are the ones who can answer them. Unpublished—Includes the only third-party guide to infrastructure. Infrastructure is easy to get wrong and can doom any Essbase project. Comprehensive—Let there never again be a question on how to create blocks or design BSO databases for performance—Dave Farnsworth provides the answers within. Innovative—Cameron Lackpour and Joe Aultman bring new and exciting solutions to persistent Essbase problems. With a list of contributors as impressive as the program of presenters at a leading Essbase conference, this book offers unprecedented access to the insights and experiences of those at the forefront of the field. The previously unpublished material presented in these pages will give you the practical knowledge needed to use this powerful and intuitive tool to build highly useful analytical models, reporting systems, and forecasting applications.

Oracle on VMware - Bert Scalzo 2008

Successfully meeting the challenges of combining VMware and Oracle, this comprehensive reference provides a broad spectrum of technological recommendations that demonstrate how to reliably and consistently achieve optimal configuration and maximum performance for any virtualized Oracle database scenario. The guide includes the best practices for virtualized servers, suggested virtualization server configuration, and recommendations for client operating system configuration for Oracle in a virtualized world. With real-world examples and highly applicable advice, this handbook also details the complexities of designing, configuring, maintaining, and tuning Oracle database deployments, making it a complete compendium for keeping virtualized Oracle databases in top form.

Migrating to the Cloud - Tom Laszewski 2011-10-03

Provides information on the tools, strategies, and methods on planning and performing a database, desktop application, or IT infrastructure migration.

Systems Performance - Brendan Gregg 2014

The Complete Guide to Optimizing Systems Performance Written by the winner of the 2013 LISA Award for Outstanding Achievement in System Administration Large-scale enterprise, cloud, and virtualized computing systems have introduced serious performance challenges. Now, internationally renowned performance expert Brendan Gregg has brought together proven methodologies, tools, and metrics for analyzing and tuning even the most complex environments. Systems Performance: Enterprise and the Cloud focuses on Linux® and Unix® performance, while illuminating performance issues that are relevant to all operating systems. You'll gain deep insight into how systems work and perform, and learn methodologies for analyzing and improving system and application performance. Gregg presents examples from bare-metal systems and virtualized cloud tenants running Linux-based Ubuntu®, Fedora®, CentOS, and the illumos-based Joyent® SmartOS™ and OmniTI OmniOS®. He systematically covers modern systems performance, including the “traditional” analysis of CPUs, memory, disks, and networks, and new areas including cloud computing and dynamic tracing. This book also helps you identify and fix the “unknown unknowns” of complex performance: bottlenecks that emerge from elements and interactions you were not aware of. The text concludes with a detailed case study, showing how a real cloud customer issue was analyzed from start to finish. Coverage includes • Modern performance analysis and tuning: terminology, concepts, models, methods, and techniques • Dynamic tracing techniques and tools, including examples of DTrace, SystemTap, and perf • Kernel internals: uncovering what the OS is doing • Using system observability tools, interfaces, and frameworks • Understanding and monitoring application performance • Optimizing CPUs: processors, cores, hardware threads, caches, interconnects, and kernel scheduling • Memory optimization: virtual memory, paging, swapping, memory architectures, busses, address spaces, and allocators • File system I/O, including caching • Storage devices/controllers, disk I/O workloads, RAID, and kernel I/O • Network-related performance issues: protocols, sockets, interfaces, and physical connections • Performance implications of OS and hardware-based virtualization, and new issues encountered with cloud computing • Benchmarking: getting accurate results and avoiding common mistakes

This guide is indispensable for anyone who operates enterprise or cloud environments: system, network, database, and web admins; developers; and other professionals. For students and others new to optimization, it also provides exercises reflecting Gregg's extensive instructional experience.

Oracle Cloud Infrastructure for Solutions Architects - Prasenjit Sarkar 2021-10-01

Develop enterprise architect skills by building secure, highly available, and cost-effective solutions with Oracle Functions, Terraform, and the Oracle Cloud VMware Solution Key Features Explore Oracle's Gen 2.0 Cloud infrastructure and its high-performance computing capabilities Understand hybrid cloud capabilities and learn to migrate apps from on-premises VMware clusters to OCI Learn to create Kubernetes clusters and run containerized applications on Oracle's Container Engine Book Description Oracle Cloud Infrastructure (OCI) is a set of complementary cloud services that enables you to build and run a wide range of applications and services in a highly available hosted environment. This book is a fast-paced practical guide that will help you develop the capabilities to leverage OCI services and effectively manage your cloud infrastructure. Oracle Cloud Infrastructure for Solutions Architects begins by helping you get to grips with the fundamentals of Oracle Cloud Infrastructure, and moves on to cover the building blocks of the layers of Infrastructure as a Service (IaaS), such as Identity and Access Management (IAM), compute, storage, network, and database. As you advance, you'll delve into the development aspects of OCI, where you'll learn to build cloud-native applications and perform operations on OCI resources as well as use the CLI, API, and SDK. Finally, you'll explore the capabilities of building an Oracle hybrid cloud infrastructure. By the end of this book, you'll have learned how to leverage the OCI and gained a solid understanding of the persona of an architect as well as a developer's perspective. What you will learn Become well-versed with the building blocks of OCI Gen 2.0 Cloud Control access to your cloud resources using IAM components Manage and operate various compute instances Tune and configure various storage options for your apps Develop applications on OCI using OCI Registry (OCIR), Cloud Shell, OCI Container Engine for Kubernetes (OKE), and Service Mesh Discover ways to use object-relational mapping (ORM) to create infrastructure blocks using Terraform code Who this book is for This book is for cloud architects, cloud developers, and DevSecOps engineers who want to learn how to architect and develop on Oracle Cloud Infrastructure by leveraging a wide range of OCI IAAS capabilities. Working knowledge of Linux, exposure to basic programming, and a basic understanding of networking concepts are needed to get the most out of this book.

Virtualizing Oracle Databases on vSphere - Kannan Mani 2014-10-15

The start-to-finish guide to virtualizing business-critical Oracle Software and Databases on VMware vSphere Virtualizing large-scale Oracle software and databases on vSphere can deliver powerful scalability, availability, and performance benefits. Recognizing this opportunity, thousands of organizations are moving to virtualize Oracle. However, reliable best practices have been difficult to find, and database and virtualization professionals often bring incompatible perspectives to the challenge. Virtualizing Oracle® Databases on vSphere® is the first authoritative, comprehensive, and best-practice guide to running Oracle on VMware platforms. Reflecting a deep understanding of both Oracle and vSphere, this guide is supported by extensive in-the-field experience with the full spectrum of database applications and environments. Both a detailed reference and a practical cookbook, it combines theory and practice, and offers up-to-date insights for the entire lifecycle, supported by case studies. Kannan Mani and Don Sullivan fully address architecture, performance, design, sizing, and high availability. Focusing on current versions of Oracle and vSphere, they highlight the differences between ESX/ESXi 4.x and 5.x wherever relevant. To deliver even more value, they provide extensive online resources, including easy-to-adapt scripts and expert how-to videos. Coverage includes: Understanding the DBA’s expanded role in virtualized environments, and the emergence of the vDBA, vRACDBA, and Cloud DBA Identifying your best opportunities to drive value from virtualizing Oracle Anticipating challenges associated with virtualizing Oracle-based Business Critical Applications on vSphere

Using VMware to overcome ongoing database deployment and management problems Protecting your virtualized database environment with vSphere’s high-availability capabilities Designing databases to achieve scalability on demand, maximize availability, consolidate servers, and improve compliance Implementing best practices for memory, storage, and database layout Demystifying the impact of virtualization on Oracle support and licensing Using VMware Site Recovery Manager (SRM) to accelerate disaster recovery by seamlessly integrating VM and storage failover Streamlining provisioning and taking advantage of opportunities to automate

InfoWorld - 2004-11-08

InfoWorld is targeted to Senior IT professionals. Content is segmented into Channels and Topic Centers. InfoWorld also celebrates people, companies, and projects.

Introduction to Network Security - Jie Wang 2015-10-05

Introductory textbook in the important area of network security for undergraduate and graduate students Comprehensively covers fundamental concepts with newer topics such as electronic cash, bit-coin, P2P, SHA-3, E-voting, and Zigbee security Fully updated to reflect new developments in network security Introduces a chapter on Cloud security, a very popular and essential topic Uses everyday examples that most computer users experience to illustrate important principles and mechanisms Features a companion website with Powerpoint slides for lectures and solution manuals to selected exercise problems, available at http://www.cs.uml.edu/~wang/NetSec

Ebook: Survey of Operating Systems - Jane Holcombe 2014-10-16

McGraw-Hill is proud to introduce the fourth edition of Jane and Charles Holcombe's, Survey of Operating Systems. This title provides an introduction to the most widely used desktop operating systems (including Windows 8, Mac OS, and Linux) and includes a more visual approach with more illustrations and a more interactive approach with hands-on activities to result in students building a successful foundation for IT success.

IBM PowerVM Virtualization Introduction and Configuration - Scott Vetter 2015-11-24

This IBM® Redbooks® publication provides an introduction to PowerVMTM virtualization technologies on Power System servers. PowerVM is a combination of hardware, firmware, and software that provides CPU, network, and disk virtualization. These are the main virtualization technologies: POWER7, POWER6, and POWER5 hardware POWER Hypervisor Virtual I/O Server Though the PowerVM brand includes partitioning, management software, and other offerings, this publication focuses on the virtualization technologies that are part of the PowerVM Standard and Enterprise Editions. This publication is also designed to be an introduction guide for system administrators, providing instructions for these tasks: Configuration and creation of partitions and resources on the HMC Installation and configuration of the Virtual I/O Server Creation and installation of virtualized partitions Examples using AIX, IBM i, and Linux This edition has been updated with the latest updates available and an improved content organization.

Oracle VM Implementation and Administration Guide - Edward Whalen 2011-08-05

Master the Powerful Virtualization Tools in Oracle VM Set up and maintain a dynamic virtualization platform across your enterprise using the detailed information contained in this Oracle Press guide. Oracle VM Implementation and Administration Guide contains key virtualization concepts, practical instructions, examples, and best practices. Find out how to design Oracle VM server farms, build and deploy virtual machines, handle provisioning and cloning, and work with Oracle VM Manager. Monitoring, tuning, and security techniques are also covered in this comprehensive volume. Install, configure, and manage all Oracle VM components Plan, size, and set up Oracle VM server farms and server pools Control resources from Oracle Enterprise Manager Grid Control, Oracle VM Manager, and Oracle VM Command Line Interface Govern network drives and virtual storage using Oracle VM tools Create virtual machines manually or from Oracle library templates Convert existing virtual machines on other systems to Oracle VM virtual machines Generate virtual machine clones that run on multiple server

pools Maintain guest operating systems and software using Oracle Enterprise Manager Grid Control's Oracle VM Management Pack

Information Resources Management: Concepts, Methodologies, Tools and Applications - Management Association, Information Resources 2010-04-30

"This work is a comprehensive, four-volume reference addressing major issues, trends, and areas for advancement in information management research, containing chapters investigating human factors in IT management, as well as IT governance, outsourcing, and diffusion"--Provided by publisher.

Practical Oracle Database Appliance - Bobby Curtis 2014-03-05

Practical Oracle Database Appliance is a hands-on book taking you through the components and implementation of the Oracle Database Appliance. Learn about architecture, installation, configuration, and reconfiguration. Install and configure the Oracle Database Appliance with confidence. Make the right choices between the various configurations in order to realize your performance requirements. Manage and monitor the appliance to meet business requirements. Protect your data through proper backup and recovery procedures. Oracle Database is one of the most relied-up databases in industry. For many years Oracle Database was a software product that had to be installed and configured at no small expense. The Oracle Database Appliance makes Oracle Database into a plug-and-play proposition: Plug the appliance into the wall socket, and turn it on. That's it. You have a running database server. This book takes you through that beginning point and beyond, helping you to realize in your own organization the ease of deployment and management represented by the appliance. Covers the Oracle Database Appliance from architecture through configuration. Provides a technical resource for system- and database administrators. Examines practical use cases for the Oracle Database Appliance.

Virtualization - Chris Wolf 2006-11-03

* This will be the only complete virtualization reference on the market; brings all virtualization technologies together * Microsoft has shifted its training strategy to include virtual machine technology in all new ALS/MOC courses, which leads to high demand for knowledge about this technology * Covers both Microsoft and Linux environments

DocBook: The Definitive Guide - Norman Walsh 1999-10-28

DocBook is a system for writing structured documents using SGML and XML. DocBook provides all the elements you'll need for technical documents of all kinds. A number of computer companies use DocBook for their documentation, as do several Open Source documentation groups, including the Linux Documentation Project (LDP). With the consistent use of DocBook, these groups can readily share and exchange information. With an XML-enabled browser, DocBook documents are as accessible on the Web as in print. DocBook : The Definitive Guide is the complete and official documentation of the DocBook Document Type Definition (DTD) and many of its associated tools. In this book, you'll find : A brief introduction to SGML and XML ; a guide to creating documents with the DocBook DTD and associated stylesheets. Information about using SGML and XML tools like jade and DSSSL ; a guide to customizing DocBook ; a complete SGML and XML reference, including examples, for every DocBook element. In addition, the CD-ROM contains the complete source text of this book, in both SGML and HTML ; all the examples from the book ; DSSSL stylesheets that let you convert DocBook documents to RTF, LaTeX, or HTML ; The DocBook DTD for SGML, version 3*1 ; The DocBk DTD for XML, version 3*1*5. In an era of collaborative creation of technology, when information is needed online as often as in print, DocBook is the essential. documentation environment. "DocBook : The Definitive Guide" is the one essential source of information about that environment.

Always-On Enterprise Information Systems for Business Continuance: Technologies for Reliable and Scalable Operations - Bajgoric, Nijaz 2009-08-31

"This book provides chapters describing in more detail the structure of information systems pertaining to enabling technologies, aspects of their implementations, IT/IS governing, risk management, disaster management, interrelated manufacturing and supply chain strategies,

and new IT paradigms"--Provided by publisher.

Oracle Solaris 10 System Virtualization Essentials - Jeff Victor 2010-09-01

Virtualization and related technologies like hypervisors, which create virtual machines on a single hardware machine, and containers (also known as zones), which create virtual operating systems running on a single operating system, are a totally new area for many system administrators. Oracle® Solaris™ 10 System Virtualization Essentials provides an accessible introduction to computer virtualization, specifically the system virtualization technologies that use the Oracle Solaris or OpenSolaris operating systems. This accessible guide covers the key concepts system administrators need to understand and explains how to Use Dynamic Domains to maximize workload isolation on Sun SPARC systems Use Oracle VM Server for SPARC to deploy different Oracle Solaris 10 and OpenSolaris environments on SPARC CMT (chip multithreading) systems Use Oracle VM Server for x86 or xVM hypervisor to deploy a server with heterogeneous operating systems Use Oracle VM VirtualBox to develop and test software in heterogeneous environments Use Oracle Solaris Containers to maximize efficiency and scalability of workloads Use Oracle Solaris Containers to migrate Solaris 8 and Solaris 9 workloads to new hardware systems Mix virtualization technologies to maximize workload density Starting with a discussion of system virtualization in general terms—the needs of consolidation, the benefits of virtualization, and a description of the most common types of computer virtualization—this book also covers many of the concepts, features, and methods shared by many implementations of system virtualization. Oracle's computer virtualization technologies that are directly related to the Oracle Solaris OS are described in detail along with a discussion of the factors that should be considered when choosing a virtualization technology. Finally, several examples of these technologies and an overview of virtualization management software are provided, as well as a history of virtualization.

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.