Dell Poweredge R710 Documentation

The Johns Hopkins Manual of Cardiac Surgical CareThe DevOps 2.0 ToolkitARM System Developer's GuideMastering VMware vSphere 5.5Vsphere High Performance CookbookMotors and DrivesVIVOOperating SystemsThe Lure of the LimerickApplied Computational Intelligence and Mathematical MethodsThe True BelieverBeyond BIOSMastering Ubuntu ServerAdvances in User AuthenticationVMware vSphere 5.x Datacenter Design CookbookProfessional SQL Server 2012 Internals and TroubleshootingDocBook 5: The Definitive GuideMiddleware 2012PowerShell and WMIWindows Forms 2.0 ProgrammingFreebsd MasteryVDI Design GuideVMware vSphere DesignSimilarity Search and ApplicationsAnsible for DevOpsPolicy Guidelines for the Development and Promotion of Open AccessPowerShell in PracticeComputer ArchitectureDerivatives MarketsHands-On Information Security Lab ManualVOLVO PENTA MD2010, MD2020, MD2030, MD2040The Elements of Programming StylePostmodern AnarchismProfessional Microsoft Windows Embedded CE 6.0Storage and Network Convergence Using FCoE and iSCSIGene SynthesisCyber Security of Industrial Control Systems in the Future Internet EnvironmentComputer ArchitectureSound SynthesisImage Processing and Communications Challenges 9

The Johns Hopkins Manual of Cardiac

Surgical Care

Presenting a series of research papers on image processing and communications, this book not only provides a summary of currently available technologies but also outlines potential future solutions in these areas. Gathering the proceedings of the 9th International Conference on Image Processing and Communications (IP&C 2017), held in Bydgoszcz, Poland, on September 13–14, 2017, the book is divided into three parts. Part I addresses image processing, offering a comprehensive survey of different methods of image processing and discussing computer vision. In turn, Part II presents novel works in algorithms and methods and showcases formal and practical advances. Lastly, Part III examines networks, communications and a diverse range of applications.

The DevOps 2.0 Toolkit

The computing world today is in the middle of a revolution: mobile clients and cloud computing have emerged as the dominant paradigms driving programming and hardware innovation today. The Fifth Edition of Computer Architecture focuses on this dramatic shift, exploring the ways in which software and technology in the cloud are accessed by cell phones, tablets, laptops, and other mobile computing devices. Each chapter includes two real-world examples, one mobile and one datacenter, to illustrate this revolutionary change. Updated to cover the mobile computing revolution Emphasizes the two most important topics in architecture today: memory

hierarchy and parallelism in all its forms. Develops common themes throughout each chapter: power, performance, cost, dependability, protection, programming models, and emerging trends ("What's Next") Includes three review appendices in the printed text. Additional reference appendices are available online. Includes updated Case Studies and completely new exercises.

ARM System Developer's Guide

Summary PowerShell and WMI is an example-driven guide for administrators managing networks of Windows servers and desktops. With 150 practical examples, including ready-to-reuse scripts and techniques, you'll learn the ins and outs of automating WMI via PowerShell v3. You'll also find deep coverage of all aspects of Windows administration, including IIS, DNS and Hyper-V. About the Technology WMI, on its own, is simply a collection of Windows management facilities. Paired with PowerShell, however, WMI becomes a brilliant toolset for automating servers, networks, and remote Windows computers. About the Book PowerShell and WMI is an industrial-strength guide for administrators of Windows networks, servers, and desktops. You'll start with practical overviews of PowerShell and of WMI. Then you'll explore 150 specific examples—all with ready-to-use scripts—designed to simplify your day-to-day system management. Each tested technique is configured to load as part of a PowerShell module. A set of handy appendixes includes references for PowerShell and WMI. Prior

exposure to PowerShell and WMI is helpful but not required. Purchase of the print book comes with an offer of a free PDF, ePub, and Kindle eBook from Manning. Also available is all code from the book. What's Inside Managing Windows, IIS, and Hyper-V Remote desktops and devices Logs, jobs, and performance New PowerShell v3 WMI functionality

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Table of Contents PART 1 TOOLS OF THE TRADE Solving administrative challenges Using PowerShell WMI in depth Best practices and optimization PART 2 WMI IN THE ENTERPRISE? System documentation Disk systems Registry administration Filesystem administration Services and processes Printers Configuring network adapters Managing IIS Configuring a server Users and security Logs, jobs, and performance Administering Hyper-V with PowerShell and WMI PART 3 THE FUTURE: POWERSHELL V3 AND WMI WMI over WSMAN Your own WMI cmdlets CIM cmdlets and sessions

Mastering VMware vSphere 5.5

This book constitutes the refereed proceedings of the 11th International Conference on Similarity Search and Applications, SISAP 2018, held in Lima, Peru, in October 2018. The 16 full papers presented together with 3 short papers and 1 demonstration paper were carefully reviewed and selected from 31 submissions. The papers deal with issues surrounding the theory, design, analysis, practice, and application of content-based and feature-based similarity search. They are organized in the following topical sections: metric

search; visual search; nearest neighbor queries; clustering and outlier detection; graphs and applications; and shared session SISAP and SPIRE.

Vsphere High Performance Cookbook

Get up to date with the finer points of Ubuntu Server using this comprehensive guide About This Book Get well-versed with newly-added features in Ubuntu 16.04 Master the art of installing, managing, and troubleshooting Ubuntu Server A practical easy-to-understand book that will help you enhance your existing skills. Who This Book Is For This book is intended for readers with intermediate or advanced-beginner skills with Linux, who would like to learn all about setting up servers with Ubuntu Server. This book assumes that the reader knows the basics of Linux, such as editing configuration files and running basic commands. What You Will Learn Learn how to manage users, groups, and permissions Encrypt and decrypt disks with Linux Unified Key Setup /Luks Setup SSH for remote access, and connect it to other nodes Understand how to add, remove, and search for packages Use NFS and Samba to share directories with other users Get to know techniques for managing Apache and MariaDB Explore best practices and troubleshooting techniques In Detail Ubuntu is a Debian-based Linux operating system, and has various versions targeted at servers, desktops, phones, tablets and televisions. The Ubuntu Server Edition, also called Ubuntu Server, offers support for several common configurations, and also simplifies common Linux server deployment processes. With

this book as their guide, readers will be able to configure and deploy Ubuntu Servers using Ubuntu Server 16.04, with all the skills necessary to manage real servers. The book begins with the concept of user management, group management, as well as file-system permissions. To manage your storage on Ubuntu Server systems, you will learn how to add and format storage and view disk usage. Later, you will also learn how to configure network interfaces, manage IP addresses, deploy Network Manager in order to connect to networks, and manage network interfaces. Furthermore, you will understand how to start and stop services so that you can manage running processes on Linux servers. The book will then demonstrate how to access and share files to or from Ubuntu Servers. You will learn how to create and manage databases using MariaDB and share web content with Apache. To virtualize hosts and applications, you will be shown how to set up KVM/Qemu and Docker and manage virtual machines with virt-manager. Lastly, you will explore best practices and troubleshooting techniques when working with Ubuntu Servers. By the end of the book, you will be an expert Ubuntu Server user well-versed in its advanced concepts. Style and Approach This book is an advanced guide that will show readers how to administer, manage, and deploy Ubuntu server and will also provide expert-level knowledge on advanced security and backup techniques.

Motors and Drives

Achieve the performance, scalability, and ROI your

business needs What can you do at the start of a virtualization deployment to make things run more smoothly? If you plan, deploy, maintain, and optimize vSphere solutions in your company, this unique book provides keen insight and solutions. From hardware selection, network layout, and security considerations to storage and hypervisors, this book explains the design decisions you'll face and how to make the right choices. Written by two virtualization experts and packed with real-world strategies and examples, VMware vSphere Design, Second Edition will help you design smart design decisions. Shows IT administrators how plan, deploy, maintain, and optimize vSphere virtualization solutions Explains the design decisions typically encountered at every step in the process and how to make the right choices Covers server hardware selection, network topology, security, storage, virtual machine design, and more Topics include ESXi hypervisors deployment, vSwitches versus dvSwitches, and FC, FCoE, iSCSI, or NFS storage Find out the "why" behind virtualization design decisions and make better choices, with VMware vSphere Design, Second Edition, which has been fully updated for vSphere 5.x.

VIVO

This book is dedicated to advances in the field of user authentication. The book covers detailed description of the authentication process as well as types of authentication modalities along with their several features (authentication factors). It discusses the use of these modalities in a time-varying operating

environment, including factors such as devices, media and surrounding conditions, like light, noise, etc. The book is divided into several parts that cover descriptions of several biometric and non-biometric authentication modalities, single factor and multi-factor authentication systems (mainly, adaptive), negative authentication system, etc. Adaptive strategy ensures the incorporation of the existing environmental conditions on the selection of authentication factors and provides significant diversity in the selection process. The contents of this book will prove useful to practitioners, researchers and students. The book is suited to be used a text in advanced/graduate courses on User Authentication Modalities. It can also be used as a textbook for professional development and certification coursework for practicing engineers and computer scientists.

Operating Systems

Ansible is a simple, but powerful, server and configuration management tool. Learn to use Ansible effectively, whether you manage one server--or thousands.

The Lure of the Limerick

The de novo fabrication of custom DNA molecules is a transformative technology that significantly affects the biotechnology industry. Basic genetic engineering techniques for manipulating DNA in vitro opened an incredible field of opportunity in the life sciences. In,

Gene Synthesis: Methods and Protocols expert researchers in the field detail many of the methods which are now commonly used to fabricate DNA . These include methods and techniques for the assembly of oligonucleotide, cloning of synthons into larger fragments, protocols and software applications, and educational and biosecurity impacts of gene synthesis. Written in the highly successful Methods in Molecular BiologyTM series format, the chapters include the kind of detailed description and implementation advice that is crucial for getting optimal results in the laboratory. Thorough and intuitive, Gene Synthese: Methods and Protocols aids scientists in understanding all the different stages of a complex gene synthesis process, while refining their understanding of gene synthesis and determine what part of the process they can or should do in their laboratory and what parts should be contracted to a specialized service provider.

Applied Computational Intelligence and Mathematical Methods

The Hands-On Information Security Lab Manual allows users to apply the basics of their introductory security knowledge in a hands-on environment with detailed exercises using Windows 2000, XP and Linux. This non-certification based lab manual includes coverage of scanning, OS vulnerability analysis and resolution firewalls, security maintenance, forensics, and more. A full version of the software needed to complete these projects is included on a CD with every text, so instructors can effortlessly set up and run labs to

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correspond with their classes. The Hands-On Information Security Lab Manual is a suitable resource for introductory, technical and managerial courses, and is a perfect supplement to the Principles of Information Security and Management of Information Security texts. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

The True Believer

This book constitutes the refereed proceedings of the ACM/IFIP/USENIX 13th International Middleware Conference, held in Montreal, Canada, in December 2012. The 24 revised full papers presented were carefully reviewed and selected from 125 submissions. The papers are organized in topical sections on mobile middleware; tracing and diagnosis; architecture and performance; publish/subscribe middleware; and big-data and cloud computing; availability, security and privacy.

Beyond BIOS

Windows Forms 2.0 Programming is the successor to the highly praised Windows Forms Programming in C#. This edition has been significantly updated to amalgamate the sheer mass of new and improved support that is encompassed by Windows Forms 2.0, the .NET Framework 2.0, and Visual Studio 2005. This is the one book developers need in order to learn how to build and deploy leading-edge Windows Forms 2.0

applications. Readers will gain a deep understanding from Sells and Weinhardt's practical, well-balanced approach to the subject and clear code samples. • Windows Forms 2.0 fundamentals, including forms, dialogs, data validation, help, controls, components, and rendering • Static and dynamic layout, snap lines, HTML-style flow and table layout, automatic resizing, and automatic cross-DPI scaling • Office 2003-style tool strip control coverage, including dynamic layout and custom rendering • Design-time integration with the Visual Studio 2005 Properties Window and Smart Tags • Resource management, strongly typed resources, and internationalization considerations • Strongly typed application and user settings • SDI, MDI, Single Instancing, Multiple-Instance SDI, Single-Instance MDI, database-centric, and document-centric applications • Databinding data-source management, drag-and-drop databinding, the BindingSource, the BindingNavigator, and applied databinding • Events, delegates, multithreaded UIs, long-running operations, simplified multithreading with the BackgroundWorker, and asynchronous web service calls • ClickOnce application development publishing, shell integration, and partial trust security • Best practices for developers transitioning from Windows Forms 1.0 and MFC

Mastering Ubuntu Server

Over the last ten years, the ARM architecture has become one of the most pervasive architectures in the world, with more than 2 billion ARM-based processors embedded in products ranging from cell

phones to automotive braking systems. A world-wide community of ARM developers in semiconductor and product design companies includes software developers, system designers and hardware engineers. To date no book has directly addressed their need to develop the system and software for an ARM-based system. This text fills that gap. This book provides a comprehensive description of the operation of the ARM core from a developer's perspective with a clear emphasis on software. It demonstrates not only how to write efficient ARM software in C and assembly but also how to optimize code. Example code throughout the book can be integrated into commercial products or used as templates to enable quick creation of productive software. The book covers both the ARM and Thumb instruction sets, covers Intel's XScale Processors, outlines distinctions among the versions of the ARM architecture, demonstrates how to implement DSP algorithms, explains exception and interrupt handling, describes the cache technologies that surround the ARM cores as well as the most efficient memory management techniques. A final chapter looks forward to the future of the ARM architecture considering ARMv6, the latest change to the instruction set, which has been designed to improve the DSP and media processing capabilities of the architecture. * No other book describes the ARM core from a system and software perspective. * Author team combines extensive ARM software engineering experience with an in-depth knowledge of ARM developer needs. * Practical, executable code is fully explained in the book and available on the publisher's Website. * Includes a simple embedded operating

system.

Advances in User Authentication

UNESCO issued this publication to demystify the concept of open access (OA) and to provide concrete steps on putting relevant policies in place. Its focus is on scientific research from peer-reviewed journal articles. Building capacities in Member States for Open Access is a necessary but not sufficient condition for promotion of the concept. Creating an enabling policy environment for OA is therefore a priority. This publication will serve the needs of OA policy development at the government, institutional and funding agency level. The overall objective of the Policy Guidelines is to promote Open Access in Member States by facilitating understanding of all relevant issues related to Open Access. The guidelines are not prescriptive in nature, but are suggestive to facilitate knowledge-based decision-making to adopt OA policies and strengthen national research systems.

VMware vSphere 5.x Datacenter Design Cookbook

The book discusses real-world problems and exploratory research in computational intelligence and mathematical models. It brings new approaches and methods to real-world problems and exploratory research that describes novel approaches in the mathematical methods, computational intelligence methods and software engineering in the scope of the

intelligent systems. This book constitutes the refereed proceedings of the Computational Methods in Systems and Software 2017, a conference that provided an international forum for the discussion of the latest high-quality research results in all areas related to computational methods, statistics, cybernetics and software engineering.

Professional SQL Server 2012 Internals and Troubleshooting

Hands-on troubleshooting methods on the most recent release of SQL Server The 2012 release of SQL Server is the most significant one since 2005 and introduces an abundance of new features. This critical book provides in-depth coverage of best practices for troubleshooting performance problems based on a solid understanding of both SQL Server and Windows internals and shows experienced DBAs how to ensure reliable performance. The team of authors shows you how to master the use of specific troubleshooting tools and how to interpret their output so you can quickly identify and resolve any performance issue on any server running SQL Server. Covers the core technical topics required to understand how SQL Server and Windows should be working Shares best practices so that you know how to proactively monitor and avoid problems Shows how to use tools to quickly gather, analyze, and effectively respond to the source of a system-wide performance issue Professional SQL Server 2012 Internals and Troubleshooting helps you to quickly become familiar with the changes of this new release so that you can best handle database

performance and troubleshooting.

DocBook 5: The Definitive Guide

Middleware 2012

To be financially literate in today's market, business students must have a solid understanding of derivatives concepts and instruments and the uses of those instruments in corporations. The Second Edition has an accessible mathematical presentation, and more importantly, helps students gain intuition by linking theories and concepts together with an engaging narrative that emphasizes the core economic principles underlying the pricing and uses of derivatives.

PowerShell and WMI

ZFS improves everything about systems administration. Once you peek under the hood, though, ZFS' bewildering array of knobs and tunables can overwhelm anyone. ZFS experts can make their servers zing-and now you can, too, with "FreeBSD Mastery: Advanced ZFS." This small book teaches you to: Use boot environments to make the riskiest sysadmin tasks boring Delegate filesystem privileges to users Containerize ZFS datasets with jails Quickly and efficiently replicate data between machines split layers off of mirrors optimize ZFS block storage handle large storage arrays select caching strategies to improve performance manage next-generation

storage hardware identify and remove bottlenecks build screaming fast database storage dive deep into pools, metaslabs, and more! Whether you manage a single small server or international datacenters, simplify your storage with "FreeBSD Mastery: Advanced ZFS.""

Windows Forms 2.0 Programming

The world of scholarship is changing rapidly. Increasing demands on scholars, the growing size and complexity of questions and problems to be addressed, and advances in sophistication of data collection, analysis, and presentation require new approaches to scholarship. A ubiquitous, open information infrastructure for scholarship, consisting of linked open data, open-source software tools, and a community committed to sustainability are emerging to meet the needs of scholars today. This book provides an introduction to VIVO, http: //vivoweb.org/, a tool for representing information about research and researchers -- their scholarly works, research interests, and organizational relationships. VIVO provides an expressive ontology, tools for managing the ontology, and a platform for using the ontology to create and manage linked open data for scholarship and discovery. Begun as a project at Cornell and further developed by an NIH funded consortium, VIVO is now being established as an open-source project with community participation from around the world. By the end of 2012, over 20 countries and 50 organizations will provide information in VIVO format on more than one million researchers and research

staff, including publications, research resources, events, funding, courses taught, and other scholarly activity. The rapid growth of VIVO and of VIVO-compatible data sources speaks to the fundamental need to transform scholarship for the 21st century. Table of Contents: Scholarly Networking Needs and Desires / The VIVO Ontology / Implementing VIVO and Filling It with Life / Case Study: University of Colorado at Boulder / Case Study: Weill Cornell Medical College / Extending VIVO / Analyzing and Visualizing VIVO Data / The Future of VIVO: Growing the Community

Freebsd Mastery

A part of Harper Perennial's special "Resistance Library" highlighting classic works that illuminate the "Age of Trump": A boldly packaged reissue of the classic examination of dangerous nationalist political movements. "Its theme is political fanaticism, with which it deals severely and brilliantly." —New Yorker A stevedore on the San Francisco docks in the 1940s, Eric Hoffer wrote philosophical treatises in his spare time while living in the railroad yards. The True Believer—the first and most famous of his books—was made into a bestseller when President Eisenhower cited it during one of the earliest television press conferences. Called a "brilliant and original inquiry" and "a genuine contribution to our social thought" by Arthur Schlesinger, Jr., this landmark in the field of social psychology is completely relevant and essential for understanding the world today as it delivers a visionary, highly provocative look into the mind of the fanatic and a penetrating study of how an individual

becomes one.

VDI Design Guide

VMware vSphere Design

"This book is organized around three concepts fundamental to OS construction: virtualization (of CPU and memory), concurrency (locks and condition variables), and persistence (disks, RAIDS, and file systems"--Back cover.

Similarity Search and Applications

Thoroughly revised, this handy manual is filled with practical advice for the entire cardiac care team. It covers all aspects of care of the surgical heart patient-from preoperative assessment to postoperative management to treatment protocols. Chapters written by both nurses and doctors emphasize the critical care team approach to cardiac surgery to improve patient outcomes and provide useful, practical information for every clinical setting. A logical organization, including individual sections on preoperative, operative, and postoperative issue speeds to the information you need. The latest details on coronary artery disease . fluid, electrolyte, and renal function . management of postoperative cardiac arrhythmias . mechanical devices . and postoperative myocardial ischemia enhance your clinical acumen. An updated appendix of Management Summaries keeps you current on the latest in care. New images

and line drawings illuminate key steps to help you master every procedure.

Ansible for DevOps

If you need a reliable tool for technical documentation, this clear and concise reference will help you take advantage of DocBook, the popular XML schema originally developed to document computer and hardware projects. DocBook 5.0 has been expanded and simplified to address documentation needs in other fields, and it's quickly becoming the tool of choice for many content providers. DocBook 5: The Definitive Guide is the complete, official documentation of DocBook 5.0. You'll find everything you need to know to use DocBook 5.0's features-including its improved content model-whether you're new to DocBook or an experienced user of previous versions. Learn how to write DocBook XML documents Understand DocBook 5.0's elements and attributes, and how they fit together Determine whether your documents conform to the DocBook schema Learn about options for publishing DocBook to various output formats Customize the DocBook schema to meet your needs Get additional information about DocBook editing and processing

Policy Guidelines for the Development and Promotion of Open Access

vSphere High Performance Cookbook is written in a practical, helpful style with numerous recipes focusing on answering and providing solutions to common, and

not-so common, performance issues and problems.The book is primarily written for technical professionals with system administration skills and some VMware experience who wish to learn about advanced optimization and the configuration features and functions for vSphere 5.1.

PowerShell in Practice

A practical guide packed with step-by-step recipes to design a virtual datacenter using VMware 5.x. This book is a guide for anyone interested in designing virtualized datacenters using VMware vSphere 5.x and the supporting components. Current administrators of VMware vSphere environments will find this book useful when interested in becoming a vSphere Architect or are interested in learning more about the virtual datacenter design process. Knowledge of vSphere installation, configuration, and administration is a prerequisite.

Computer Architecture

This best-selling title, considered for over a decade to be essential reading for every serious student and practitioner of computer design, has been updated throughout to address the most important trends facing computer designers today. In this edition, the authors bring their trademark method of quantitative analysis not only to high performance desktop machine design, but also to the design of embedded and server systems. They have illustrated their principles with designs from all three of these

domains, including examples from consumer electronics, multimedia and web technologies, and high performance computing. The book retains its highly rated features: Fallacies and Pitfalls, which share the hard-won lessons of real designers; Historical Perspectives, which provide a deeper look at computer design history; Putting it all Together, which present a design example that illustrates the principles of the chapter; Worked Examples, which challenge the reader to apply the concepts, theories and methods in smaller scale problems; and Cross-Cutting Issues, which show how the ideas covered in one chapter interact with those presented in others. In addition, a new feature, Another View, presents brief design examples in one of the three domains other than the one chosen for Putting It All Together. The authors present a new organization of the material as well, reducing the overlap with their other text, Computer Organization and Design: A Hardware/Software Approach 2/e, and offering more in-depth treatment of advanced topics in multithreading, instruction level parallelism, VLIW architectures, memory hierarchies, storage devices and network technologies. Also new to this edition, is the adoption of the MIPS 64 as the instruction set architecture. In addition to several online appendixes, two new appendixes will be printed in the book: one contains a complete review of the basic concepts of pipelining, the other provides solutions a selection of the exercises. Both will be invaluable to the student or professional learning on her own or in the classroom. Hennessy and Patterson continue to focus on fundamental techniques for designing real machines and for maximizing their cost/performance.

* Presents state-of-the-art design examples including: * IA-64 architecture and its first implementation, the Itanium * Pipeline designs for Pentium III and Pentium IV * The cluster that runs the Google search engine * EMC storage systems and their performance * Sony Playstation 2 * Infiniband, a new storage area and system area network * SunFire 6800 multiprocessor server and its processor the UltraSPARC III * Trimedia TM32 media processor and the Transmeta Crusoe processor * Examines quantitative performance analysis in the commercial server market and the embedded market, as well as the traditional desktop market. Updates all the examples and figures with the most recent benchmarks, such as SPEC 2000. * Expands coverage of instruction sets to include descriptions of digital signal processors, media processors, and multimedia extensions to desktop processors. * Analyzes capacity, cost, and performance of disks over two decades. Surveys the role of clusters in scientific computing and commercial computing. * Presents a survey, taxonomy, and the benchmarks of errors and failures in computer systems. * Presents detailed descriptions of the design of storage systems and of clusters. * Surveys memory hierarchies in modern microprocessors and the key parameters of modern disks. * Presents a glossary of networking terms.

Derivatives Markets

Covers Expression, Structure, Common Blunders, Documentation, & Structured Programming Techniques

Hands-On Information Security Lab Manual

The 2013 edition of the bestselling vSphere book on the market Virtualization remains the hottest trend in the IT world, and VMware vSphere is the industry's most widely deployed virtualization solution. The demand for IT professionals skilled in virtualization and cloud-related technologies is great and expected to keep growing. This comprehensive Sybex guide covers all the features and capabilities of VMware vSphere, showing administrators step by step how to install, configure, operate, manage, and secure it. This perfect blend of hands-on instruction, conceptual explanation, and practical application is reinforced with real-world examples. Led by Scott Lowe and Nick Marshall, both VMware vExperts, the author team provides expertise that will prepare IT professionals to excel in using this virtualization technology. Virtualization is seen as a "best practice" for high availability and disaster recovery solutions, as well as for applications such as Exchange Server and SharePoint IDC estimates that there are as many as 7 million jobs available worldwide in virtualization and cloud technology Provides hands-on instruction in all the latest features and capabilities of VMware vSphere, with both conceptual explanations and practical applications Author team is lead by Scott Lowe and Nick Marshall, well-known VMware experts and popular bloggers Mastering VMware vSphere provides what every virtualization professional needs to know.

VOLVO PENTA MD2010, MD2020, MD2030, MD2040

Drawing on over 20 years of experience as an instructor and developer of technical support and training materials for major drives manufacturers, the author of this practical reference introduces engineering concepts of motors and drives in a way that can be easily understood by both engineers unfamiliar with the technology, and technicians who are technically literate but not accustomed to complex theory and mathematics. It features simple explanations, summaries, review questions, glossaries, and reference tables for formulas and conversions. The text begins with an explanation of the principles of DC and variable frequency AC drive technology. It provides an overview of drive components and types of drives, with special emphasis given to common motion control applications for each. The text goes on to cover DC and AC motor and drive operation, step motors, AC vector motors, brushless servo motors, linear stepper and linear servo motors, drive innovations such as vector drives, PWM stepper, and servo drives. Feedback devices such as tachometers, resolvers, and encoders are also addressed as they relate to speed and torque control.Later chapters cover drive systems control methods and the maintenance and troubleshooting of drive systems. Design engineers, automation and control specialists, maintenance technicians, and students will find this to be an invaluable resource, both as a tutorial and a desk reference.

The Elements of Programming Style

This book provides an overview of modern boot firmware, including the Unified Extensible Firmware Interface (UEFI) and its associated EFI Developer Kit II (EDKII) firmware. The authors have each made significant contributions to developments in these areas. The reader will learn to use the latest developments in UEFI on modern hardware, including open source firmware and open hardware designs. The book begins with an exploration of interfaces exposed to higher-level software and operating systems, and commences to the left of the boot timeline, describing the flow of typical systems, beginning with the machine restart event. Software engineers working with UEFI will benefit greatly from this book, while specific sections of the book address topics relevant for a general audience: system architects, pre-operating-system application developers, operating system vendors (loader, kernel), independent hardware vendors (such as for plug-in adapters), and developers of end-user applications. As a secondary audience, project technical leaders or managers may be interested in this book to get a feel for what their engineers are doing. The reader will find: An overview of UEFI and underlying Platform Initialization (PI) specifications How to create UEFI applications and drivers Workflow to design the firmware solution for a modern platform Advanced usages of UEFI firmware for security and manageability

Postmodern Anarchism

Five hundred American and British limericks are interspersed with anecdotes and historical comment

Professional Microsoft Windows Embedded CE 6.0

Delving into the anarchist writings of Nietzsche, Foucault, and Baudrillard, and exploring the cyberpunk fiction of William Gibson and Bruce Sterling, theorist Lewis Call examines the new philosophical current where anarchism meets postmodernism. This theoretical stream moves beyond anarchism's conventional attacks on capital and the state to criticize those forms of rationality, consciousness, and language that implicitly underwrite all economic and political power. Call argues that postmodernism's timely influence updates anarchism, making it relevant to the political culture of the new millennium.

Storage and Network Convergence Using FCoE and iSCSI

In today␣s modernized market, many fields are utilizing internet technologies in their everyday methods of operation. The industrial sector is no different as these technological solutions have provided several benefits including reduction of costs, scalability, and efficiency improvements. Despite this, cyber security remains a crucial risk factor in industrial control systems. The same public and corporate solutions do not apply to this specific district because these security issues are more

complex and intensive. Research is needed that explores new risk assessment methods and security mechanisms that professionals can apply to their modern technological procedures. Cyber Security of Industrial Control Systems in the Future Internet Environment is a pivotal reference source that provides vital research on current security risks in critical infrastructure schemes with the implementation of information and communication technologies. While highlighting topics such as intrusion detection systems, forensic challenges, and smart grids, this publication explores specific security solutions within industrial sectors that have begun applying internet technologies to their current methods of operation. This book is ideally designed for researchers, system engineers, managers, networkers, IT professionals, analysts, academicians, and students seeking a better understanding of the key issues within securing industrial control systems that utilize internet technologies.

Gene Synthesis

Is this finally the year of the Virtual Desktop Infrastructure (VDI)? There doesn't seem to be a straight answer to that question. A VDI can be designed to work perfectly in your environment, but could also be a big pain in the butt.This guide will help you design a VMware Horizon VDI, based on the VMware Certified Design Expert (VCDX) methodology. It will help you understand what steps need to be taken to bring a project to a successful result. It contains examples of real-world design projects,

requirements & constraints which will help you make the right decision in a great variety of scenarios. As sizing does matter, you will also be guided through the complete sizing process.Other topics that will be covered: Windows 10, multi-site architectures, NSX, vSAN, profile strategies, application delivery strategies, assessments, monitoring, security, GPUs, and remote protocols.

Cyber Security of Industrial Control Systems in the Future Internet Environment

Automating the Continuous Deployment Pipeline with Containerized Microservices About This Book First principles of devops, Ansible, Docker, Kubernetes, microservices Architect your software in a better and more efficient way with microservices packed as immutable containers Practical guide describing an extremely modern and advanced devops toolchain that can be improved continuously Who This Book Is For If you are an intermediate-level developer who wants to master the whole microservices development and deployment lifecycle using some of the latest and greatest practices and tools, this is the book for you. Familiarity with the basics of Devops and Continuous Deployment will be useful. What You Will Learn Get to grips with the fundamentals of Devops Architect efficient software in a better and more efficient way with the help of microservices Use Docker, Kubernetes, Ansible, Ubuntu, Docker Swarm and more Implement fast, reliable and continuous deployments with zero-downtime and ability to roll-

back Learn about centralized logging and monitoring of your cluster Design self-healing systems capable of recovery from both hardware and software failures In Detail Building a complete modern devops toolchain requires not only the whole microservices development and a complete deployment lifecycle, but also the latest and greatest practices and tools. Victor Farcic argues from first principles how to build a devops toolchain. This book shows you how to chain together Docker, Kubernetes, Ansible, Ubuntu, and other tools to build the complete devops toolkit. Style and approach This book follows a unique, hands-on approach familiarizing you to the Devops 2.0 toolkit in a very practical manner. Although there will be a lot of theory, you won't be able to complete this book by reading it in a metro on a way to work. You'll need to be in front of your computer and get your hands dirty.

Computer Architecture

Along with servers and networking infrastructure, networked storage is one of the fundamental components of a modern data center. Because storage networking has evolved over the past two decades, the industry has settled on the basic storage networking technologies. These technologies are Fibre Channel (FC) storage area networks (SANs), Internet Small Computer System Interface (iSCSI)-based Ethernet attachment, and Ethernet-based network-attached storage (NAS). Today, lossless, low-latency, high-speed FC SANs are viewed as the high-performance option for networked storage. iSCSI and NAS are viewed as lower cost,

lower performance technologies. The advent of the 100 Gbps Ethernet and Data Center Bridging (DCB) standards for lossless Ethernet give Ethernet technology many of the desirable characteristics that make FC the preferred storage networking technology. These characteristics include comparable speed, low latency, and lossless behavior. Coupled with an ongoing industry drive toward better asset utilization and lower total cost of ownership, these advances open the door for organizations to consider consolidating and converging their networked storage infrastructures with their Ethernet data networks. Fibre Channel over Ethernet (FCoE) is one approach to this convergence, but 10-Gbps-enabled iSCSI also offers compelling options for many organizations with the hope that their performance can now rival that of FC. This IBM® Redbooks® publication is written for experienced systems, storage, and network administrators who want to integrate the IBM System Networking and Storage technology successfully into new and existing networks. This book provides an overview of today's options for storage networking convergence. It reviews the technology background for each of these options and then examines detailed scenarios for them by using IBM and IBM Business Partner convergence products.

Sound Synthesis

Years of lab research & work with musicians, composers, & producers went into this book: a complete guide to the design & construction of the circuitry necessary for music synthesizers. Thomas

covers optoisolaters, fiberoptics, pressure-sensitive resistors, Hall-effect switches, & surface mount techniques & includes plenty of illustrations & printed circuit board patterns throughout.

Image Processing and Communications Challenges 9

Windows PowerShell is a scripting language that simplifies Windows system administration. PowerShell in Practice is a hands-on reference for administrators wanting to learn and use PowerShell. Following the "in Practice" style, individual related techniques are clustered into chapters. Each technique is presented in the form: problem, solution, discussion, and includes annotated code listings. Written to answer the question "How can PowerShell make my job as an administrator easier?" this book concentrates on practical tasks and automation. Starting with an a brief tutorial and review, the majority of the book focuses on two major PowerShell usage areas: People - user accounts, mailboxes, desktop configuration; and Servers - Active Directory, Exchange, IIS, and more. Purchase of the print book comes with an offer of a free PDF, ePub, and Kindle eBook from Manning. Also available is all code from the book.

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