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Getting Started with Nano Server High Performance Computing Perspectives of System Informatics CompTIA Server+ Study Guide Multimedia Security E-Discovery Tools and Applications in Modern Libraries Windows Server 2012: Up and Running HPE ATP - Hybrid IT Solutions V2 IBM Power Systems SR-IOV: Technical Overview and Introduction SQL Server Query Performance Tuning HP ProLiant Servers AIS VMware vSphere 6.5 Host Resources Deep Dive Intel Trusted Execution Technology for Server Platforms IBM FlashSystem 5000 Family Products The Scottish Book Learning OpenDaylight Systems Performance PowerCLI Cookbook Cryptocurrency Mining For Dummies Sweden Learning PowerCLI IBM Power System AC922 Introduction and Technical Overview PCs VMware ESX Server in the Enterprise Mastering Azure Virtual Desktop Hpe Atp Server Solutions V4 (H Best Practices for Seizing Electronic Evidence IBM ProtecTIER Implementation and Best Practices Guide Troubleshooting & Maintaining Your PC All-in-One For Dummies Implementing an IBM High-Performance Computing Solution on IBM Power System S822LC The Fundamentals of Heavy Tails CompTIA Server+ Study Guide Designing for Sustainability Practical Oracle Database Appliance IBM Reference Configuration for VMware on System x with SmartCloud Entry IBM DS8910F Model 993 Rack-Mounted Storage System Release 9.1 Historical Sketches IBM Power Systems LC921 and LC922: Technical Overview and Introduction Start at the End IBM Power Systems S922, S914, and S924 Technical Overview and Introduction

Learn how to design, implement, configure, and manage your Azure Virtual Desktop environment Key Features Learn everything about designing and deploying an Azure Virtual Desktop environment Gain in-depth insights into Azure Virtual Desktop and prepare successfully for the AZ-140 exam Explore best practices and expert tips on how to set up Azure Virtual Desktop Book Description Azure Virtual Desktop is a cloud desktop virtualization platform that securely delivers virtual desktops and remote apps. Mastering Azure Virtual Desktop will guide you through designing, implementing, configuring, and maintaining an Azure Virtual Desktop environment effectively. This book can also be used as an exam preparation guide to help you sit the Microsoft AZ-140 exam. You'll start with an introduction to the essentials of Azure Virtual Desktop. Next, you'll get to grips with planning an Azure Virtual Desktop architecture before learning how to implement an Azure Virtual Desktop environment. Moving ahead, you'll learn how to manage and control access as well as configure security controls on your Azure Virtual Desktop environment. As you progress, you'll understand how to manage user environments and configure MSIX app attach and other Azure Virtual Desktop features to enhance the user experience. You'll also learn about the Azure Active Directory (AD) join and getting started feature. Finally, you'll discover how to monitor and maintain an Azure Virtual Desktop environment to help you support your users and diagnose issues when they occur. By the end of this Microsoft Azure book, you'll have covered all the essential topics you need to know to design and manage Azure Virtual Desktop and prepare for the AZ-140 exam. What you will learn Design Azure Virtual Desktop and user identities and profiles Implement networking and storage for Azure Virtual Desktop Create and configure session host images and host pools Manage access and security for MS Azure Virtual Desktop Implement FSLogix Profile Containers and FSLogix Cloud Cache Configure user experience and Azure Virtual Desktop features Plan and implement business continuity and disaster recovery Automate Azure Virtual Desktop tasks Who this book is for If you are an IT professional, workspace administrator, architect, or consultant looking to learn about designing, implementing, and managing Azure Virtual Desktop, this book is for you. You'll also find this book helpful if you're preparing for the Microsoft AZ-140 exam. VMware ESX Server in the Enterprise Planning and Securing Virtualization Servers The Most Complete, Practical, Solutions-Focused Guide to Running ESX Server 3 VMware ESX Server in the Enterprise is the definitive, real-world guide to planning, deploying, and managing today's leading virtual infrastructure platform in mission-critical environments. Drawing on his extensive experience consulting on large-scale ESX Server implementations, Edward L. Haletky brings together an unprecedented collection of tips, best practices, and field-tested solutions. More than any other author, he illuminates the real issues, tradeoffs, and pitfalls associated with ESX Server—and shows how to make the most of it in your unique environment. Haletky covers the entire lifecycle: planning, installation, system monitoring, tuning, clustering, security, disaster recovery, and much more. Throughout, he supports his recommendations with examples from real-world deployments. He also provides detailed checklists for handling crucial issues such as caching, networking, storage, and hardware selection. Many of his techniques and practices apply to all current virtualization platforms, not just ESX Server. This book will be an indispensable resource for every network architect, administrator, and IT professional who works with virtual servers. ESX Server newcomers will find the soup-to-nuts introduction they desperately need; experienced users will find an unparalleled source of field-tested answers and solutions. In this book, you'll learn how to:

- Identify key differences between ESX v3.x.y and ESX v2.5.x and their implications
- Perform a complete installation—with automated scripting techniques and samples
- Efficiently audit, monitor, and secure ESX Server
- Discover SAN storage pitfalls and solutions—with detailed guidance for specific SANs, switches, and fibre-channel adapters
- Understand ESX Server networking: NIC teaming, vSwitches, network lag, and troubleshooting
- Configure ESX Server via the Management User Interface, Virtual Center client, and command line interface
- Install Windows, Linux, and NetWare VMs: prepare media images, place configuration files, handle sizing and swap files, and more
- Use Dynamic Resource Load Balancing to consistently achieve utilization goals
- Implement effective backup and disaster recovery procedures

Edward L. Haletky owns AstroArch Consulting, Inc., a consultancy specializing in virtualization, security, and networking. He has been rated by his peers on the VMware Discussion Forums as a “virtuoso” for his work in answering VMware security and configuration questions. Prior to establishing AstroArch, Haletky was a member of Hewlett-Packard's Virtualization, Linux, and High-Performance Technical Computing teams. He holds a degree in Aeronautical and Astronautical Engineering from Purdue University. NOTE: The correct URL to access the Sybex interactive online test bank and study tools is www.wiley.com/go/sybextestprep. The book's back cover, Introduction, and last page in the book provided the wrong URL. We apologize for any confusion and inconvenience this may have caused you. Comprehensive interactive exam preparation plus expert insight from the field CompTIA Server+ Study Guide Exam SK0-004 is your ideal study companion for the SK0-004 exam. With 100% coverage of all exam objectives, this guide walks you through system hardware, software, storage, best practices, disaster recovery, and troubleshooting, with additional coverage of relevant topics including virtualization, big data, cloud storage, security, and scalability. Get an 'in the trenches' view of how server and data storage administration works in a real-world IT environment. From the basics through advanced topics, you'll learn how to deliver world-class solutions in today's evolving organizations by getting under the hood of technologies that enable performance, resiliency, availability, recoverability, and simplicity. Gain access to the Sybex interactive online learning environment, which features electronic flashcards, a searchable glossary, test bank, and bonus practice exams to reinforce what you have learned. Using and understanding in-house storage devices and the cloud has become an urgent skill for any IT professional. This is your comprehensive, expert driven study guide for taking the CompTIA Server+ exam SK0-004 Study 100% of exam objectives and more Understand storage design, implementation, and administration Utilize bonus practice exams and study tools Gain a real-world perspective of data storage technology CompTIA Server+ Study Guide Exam SK0-004 is your ticket to exam day confidence. This IBM Redpaper publication presents and positions the DS8910F Model 993 storage system. This modular system can be integrated into a 16U contiguous space of an IBM z15TM model T02 or IBM z14@ Model ZR1 with Feature Code 0937 and IBM LinuxONE III model LT2 or LinuxONE Rockhopper II model LR1 with Feature Code 0938. The DS8910F Model 993 allows you to take advantage of the performance boost of all-flash systems and advanced features while limiting data center footprint and power infrastructure requirements. Prepare for the Server+ exam—and an exciting new career in tech—with this hands-on guide In the newly updated Second Edition of the CompTIA Server+ Study Guide: Exam SK0-005, veteran technology educator Troy McMillan delivers a comprehensive, hands-on blueprint for success on the Server+ SK0-005 exam. Learn about essential hardware and software technologies used in on-premise and hybrid server environments and prepare yourself for the exam and real-world, on-the-job challenges. This Study Guide provides you with a solid understanding of how network and cloud storage systems work by helping you learn how to store, protect, and access the data that's ever more crucial to modern businesses. Find coverage of every objective tested by the exam, including server hardware installation and management, server administration, security and disaster recovery, and troubleshooting. You also learn: Expert guidance on acing a certification exam is increasing demand amongst high-paying employers Critical performance tips for professionals who want to hit the ground running on their first day on the job Complimentary access to the Sybex interactive online learning environment and test bank, complete with hundreds of practice questions and answers, bonus exams, electronic flashcards, and a searchable glossary of key terms A can't-miss resource for anyone preparing for a new role as a server administrator, data storage specialist, or related IT specialty, the CompTIA Server+ Study Guide: Exam SK0-005, Second Edition, will earn a place in the libraries of anyone looking for an efficient and effective way to prep for this challenging and rewarding technical certification. This IBM® Redbooks® publication demonstrates and documents that IBM Power Systems™ high-performance computing and technical computing solutions deliver faster time to value with powerful solutions. Configurable into highly scalable Linux clusters, Power Systems offer extreme performance for demanding workloads such as genomics, finance, computational chemistry, oil and gas exploration, and high-performance data analytics. This book delivers a high-performance computing solution implemented on the IBM Power System S822LC. The solution delivers high application performance and throughput based on its built-for-big-data architecture that incorporates IBM POWER8® processors, tightly coupled Field Programmable Gate Arrays (FPGAs) and accelerators, and faster I/O by using Coherent Accelerator Processor Interface (CAPI). This solution is ideal for clients that need more processing power while simultaneously increasing workload density and reducing datacenter floor space requirements. The Power S822LC offers a modular design to scale from a single rack to hundreds, simplicity of ordering, and a strong innovation roadmap for graphics processing units (GPUs). This publication is targeted toward technical professionals (consultants, technical support staff, IT Architects, and IT Specialists) responsible for delivering cost effective high-performance computing (HPC) solutions that help uncover insights from their data so they can optimize business results, product development, and scientific discoveries This IBM® Redpaper™ publication is a comprehensive guide that covers the IBM Power Systems™ LC921 and LC922 (9006-12P and 9006-22P) servers that use the current IBM POWER9™ processor-based technology and supports Linux operating systems (OSes). The objective of this paper is to introduce the offerings and their capacities and available features. These new Linux scale-out systems provide differentiated performance, scalability, and low acquisition cost, and include the following features: Superior throughput and performance for high-value Linux workloads. Low acquisition

cost through system optimization (industry-standard memory and industry-standard three-year warranty). Rich I/O options in the system unit. There are 12 large form factor (LFF)/small form factor (SFF) bays for 12 SAS/SATA hard disk drives (HDDs) or solid-state drives (SSDs), and four bays that are available for Non-Volatile Memory Express (NVMe) Gen3 adapters. Includes Trusted Platform Module (TPM) 2.0 Nuvoton NPCT650ABAWX through I2C (for secure boot and trusted boot). Integrated MicroSemi PM8069 SAS/SATA 16-port Internal Storage Controller Peripheral Component Interconnect Express (PCIe) 3.0 x8 with RAID 0, 1, 5, and 10 support (no write cache). Integrated Intel XL710 Quad Port 10 GBase-T PCIe 3.0 x8 UIO built-in local area network (LAN) (one shared management port). Dedicated 1 Gb Intelligent Platform Management Interface (IPMI) port. This publication is for professionals who want to acquire a better understanding of IBM Power Systems products. The intended audience includes: Clients Sales and marketing professionals Technical support professionals IBM Business Partners Independent software vendors (ISVs) Reprint of the original, first published in 1872. The publishing house Anatiposi publishes historical books as reprints. Due to their age, these books may have missing pages or inferior quality. Our aim is to preserve these books and make them available to the public so that they do not get lost. This IBM® Redpaper™ publication is a comprehensive guide that covers the IBM Power System S922 (9009-22A), IBM Power System S914 (9009-41A), and IBM Power System S924 (9009-42A) servers that support IBM AIX®, IBM i, and Linux operating systems. The objective of this paper is to introduce the major innovative Power S914, Power S922, and Power 924 offerings and their relevant functions: The new IBM POWER9™ processor, which is available at frequencies of 2.3 - 3.8 GHz, 2.8 - 3.8 GHz, 2.9 - 3.8 GHz, 3.4 - 3.9 GHz, 3.5 - 3.9 GHz, and 3.8 - 4.0 GHz. Significantly strengthened cores and larger caches. Two integrated memory controllers that double the memory footprint of IBM POWER8® servers. Integrated I/O subsystem and hot-pluggable Peripheral Component Interconnect Express (PCIe) Gen4 and Gen3 I/O slots. I/O drawer expansion options offer greater flexibility. Support for Coherent Accelerator Processor Interface (CAPI) 2.0. New IBM EnergyScale™ technology offers new variable processor frequency modes that provide a significant performance boost beyond the static nominal frequency. This publication is for professionals who want to acquire a better understanding of IBM Power Systems™ products. The intended audience includes the following roles: Clients Sales and marketing professionals Technical support professionals IBM Business Partners Independent software vendors (ISVs) This paper expands the current set of IBM Power Systems documentation by providing a desktop reference that offers a detailed technical description of the Power S914, Power S922, and Power S924 systems. This paper does not replace the current marketing materials and configuration tools. It is intended as an extra source of information that, together with existing sources, can be used to enhance your knowledge of IBM server solutions. From the author of the vSphere Clustering Deep Dive series - The VMware vSphere 6.5 Host Resources Deep Dive is a guide to building consistent high-performing ESXi hosts. A book that people can't put down. Written for administrators, architects, consultants, aspiring VCDX-es and people eager to learn more about the elements that control the behavior of CPU, memory, storage and network resources. This book shows that we can fundamentally and materially improve the systems we're building. We can make the currently running ones consistently faster by deeply understanding and optimizing our systems. The reality is that specifics of the infrastructure matter. Details matter. Especially for distributed platforms which abstract resource layers, such as NSX and vSAN. Knowing your systems inside and out is the only way to be sure you've properly handled those details. It's about having a passion for these details. It's about loving the systems we build. It's about understanding them end-to-end. This book explains the concepts and mechanisms behind the physical resource components and the VMkernel resource schedulers, which enables you to: Optimize your workload for current and future Non-Uniform Memory Access (NUMA) systems. Discover how vSphere Balanced Power Management takes advantage of the CPU Turbo Boost functionality, and why High Performance does not. How the 3-DIMMs per Channel configuration results in a 10-20% performance drop. How TLB works and why it is bad to disable large pages in virtualized environments. Why 3D XPoint is perfect for the vSAN caching tier. What queues are and where they live inside the end-to-end storage data paths. Tune VMkernel components to optimize performance for VXLAN network traffic and NFV environments. Why Intel's Data Plane Development Kit significantly boosts packet processing performance. This IBM® Redbooks® publication provides an introduction and overview of the latest products in the IBM FlashSystem® 5000 Family, including their hardware and software features. Discusses how to configure and manage Microsoft Server 2012's expanded capabilities, covering data management, user permissions, networking tools, and data integrity. Technology has revolutionized the ways in which libraries store, share, and access information. As digital resources and tools continue to advance, so too do the opportunities for libraries to become more efficient and house more information. E-Discovery Tools and Applications in Modern Libraries presents critical research on the digitization of data and how this shift has impacted knowledge discovery, storage, and retrieval. This publication explores several emerging trends and concepts essential to electronic discovery, such as library portals, responsive websites, and federated search technology. The timely research presented within this publication is designed for use by librarians, graduate-level students, technology developers, and researchers in the field of library and information science. Pixels use electricity, and a lot of it. If the Internet were a country, it would be the sixth largest in terms of electricity use. That's because today's average web page has surpassed two megabytes in size, leading to slow load times, frustrated users, and a lot of wasted energy. With this practical guide, your web design team will learn how to apply sustainability principles for creating speedy, user-friendly, and energy-efficient digital products and services. Author Tim Frick introduces a web design framework that focuses on four key areas where these principles can make a difference: content strategy, performance optimization, design and user experience, and green hosting. You'll discover how to provide users with a streamlined experience, while reducing the environmental impact of your products and services. Learn why 90% of the data that ever existed was created in the last year Use sustainability principles to innovate, reduce waste, and function more efficiently Explore green hosting, sustainable business practices, and lean/agile workflows Put the right things in front of users at precisely the moment they need them—and nothing more Increase site search engine visibility, streamline user experience, and make streaming video more efficient Use Action Items to explore concepts outlined in each chapter A practical guide to building programmable networks using OpenDaylight About This Book Learn and understand how SDN controllers operate and integrate with networks; this book's step-by-step tutorials will give you a strong foundation in SDN, NVF, and OpenDayLight. Learn how to map legacy Layer 2/3 networking technologies in the SDN world Add new services and capabilities to your infrastructure and quickly adopt SDN and NFV within your organization with OpenDayLight. Integrate and manage software-defined networks efficiently in your organization. Build innovative network applications with OpenDayLight and save time and resources. Who This Book Is For This book targets network engineers, network programmers and developers, administrators, and anyone with some level of networking experience who'd like to deploy OpenDayLight effectively. Familiarity with the day-to-day operations of computer networks is expected What You Will Learn Transition from legacy networking to software-defined networking Learn how SDN controllers work and manage a network using southbound and northbound APIs Learn how to deploy the OpenDayLight SDN controller and integrate it with virtual switches Understand the basic design and operation of the OpenDaylight platform Build simple MD-SAL OpenDaylight applications Build applications on top of OpenDayLight to trigger network changes based on different events Integrate OpenStack with OpenDayLight to build a fully managed network Learn how to build a software-defined datacenter using NFV and service-chaining technologies In Detail OpenDaylight is an open source, software-defined network controller based on standard protocols. It aims to accelerate the adoption of Software-Defined Networking (SDN) and create a solid foundation for Network Functions Virtualization (NFV). SDN is a vast subject; many network engineers find it difficult to get started with using and operating different SDN platforms. This book will give you a practical bridge from SDN theory to the practical, real-world use of SDN in datacenters and by cloud providers. The book will help you understand the features and use cases for SDN, NFV, and OpenDaylight. NFV uses virtualization concepts and techniques to create virtual classes for node functions. Used together, SDN and NFV can elevate the standards of your network architecture; generic hardware-saving costs and the advanced and abstracted software will give you the freedom to evolve your network in the future without having to invest more in costly equipment. By the end of this book, you will have learned how to design and deploy OpenDaylight networks and integrate them with physical network switches. You will also have mastered basic network programming over the SDN fabric. Style and approach This is a step-by-step tutorial aimed at getting you up-to-speed with OpenDayLight and ready to adopt it for your SDN (Software-Defined Networking) and NFV (Network Functions Virtualization) ecosystem. Nudge meets Hooked in a practical approach to designing products and services that change behavior, from what we buy to how we work. Deciding what to create at modern companies often looks like an episode of Mad Men: people throw ideas around until one sounds sexy enough to execute and then they scale it to everyone. The result? Companies overspend on marketing to drive engagement with products and services that people don't want and won't help them be happier and healthier. Start at the End offers a new framework for design, grounded in behavioral science. Technology executive and behavioral scientist Matt Wallaert argues that the purpose of everything is behavior change. By starting with outcomes instead of processes, the most effective companies understand what people want to do and why they aren't already doing it, then build products and services to bridge the gap. Wallaert is a behavioral psychologist who has led product design at organizations ranging from startups like Clover Health to industry leaders such as Microsoft. Whether dissecting the success behind Uber's ridesharing service or Flamin' Hot Cheetos, he underscores with clarity and humor how this approach can improve the way we work and live. This is an essential roadmap for building products that matter--and changing behavior for the better. Find out the essentials of cryptocurrency mining The cryptocurrency phenomenon has sparked a new opportunity mine for virtual gold, kind of like the prospectors of a couple centuries back. This time around, you need some tech know-how to get into the cryptocurrency mining game. This book shares the insight of two cryptocurrency insiders as they break down the necessary hardware, software, and strategies to mine Bitcoin, Ethereum, Monero, Litecoin, and Dash. They also provide insight on how to stay ahead of the curve to maximize your return on investment. Get the tech tools and know-how to start mining Pick the best cryptocurrency to return your investment Apply a sound strategy to stay ahead of the game Find cryptocurrency value at the source From the basics of cryptocurrency and blockchain to selecting the best currency to mine, this easy-to-access book makes it easy to get started today! If you are a virtualization professional who wants to unleash the power of automation and combat the complexity of sprawling virtual environments, this book is ideal for you. This book will enhance your skills of administering VMware vSphere and vCloud Director with PowerCLI. This IBM® Redbooks® publication provides best practice guidance for planning, installing, configuring, and employing the IBM TS7600 ProtecTIER® family of products. It provides the latest best practices for the practical application of ProtecTIER Software Version 3.4. This latest release introduces the new ProtecTIER Enterprise Edition TS7650G DD6 model high performance server. This book also includes information about the revolutionary and patented IBM HyperFactor® deduplication engine, along with other data storage efficiency techniques, such as compression and defragmentation. The IBM System Storage® TS7650G ProtecTIER Deduplication Gateway and the IBM System Storage TS7620 ProtecTIER Deduplication Appliance Express are disk-based data storage systems: The Virtual Tape Library (VTL) interface is the foundation of ProtecTIER and emulates traditional automated tape libraries. For your existing ProtecTIER solution, this guide provides best practices and suggestions to boost the performance and the effectiveness of data deduplication with regards to your application platforms for your VTL and FSI (systems prior to version 3.4). When you build a ProtecTIER data deduplication environment, this guide can help IT architects and

solution designers plan for the best option and scenario for data deduplication for their environments. This book can help you optimize your deduplication ratio, while reducing the hardware, power and cooling, and management costs. This Redbooks publication provides expertise that was gained from an IBM ProtecTIER System Client Technical Specialist (CTS), Development, and Quality Assurance teams. This planning should be done by the Sales Representative or IBM Business Partner, with the help of an IBM System CTS or IBM Solution Architect. This book constitutes the proceedings of the Third Latin American Conference on High Performance Computing, CARLA 2016, held in Mexico City, Mexico, in August/September 2016. The 30 papers presented in this volume were carefully reviewed and selected from 70 submissions. They are organized in topical sections named: HPC Infrastructure and Applications; Parallel Algorithms and Applications; HPC Applications and Simulations. Learn to leverage the power of PowerCLI to automate your VMware vSphere environment with ease About This Book This is first book on the market that will enlighten you on the latest version of PowerCLI and how to implement it Effectively manage virtual machines, networks, and reports with the latest features of PowerCLI A comprehensive and practical book on automating VMware vSphere Who This Book Is For This book is ideal for you if you want to learn how to automate your VMware vSphere or vCloud infrastructure by getting the most out of PowerCLI. It's assumed that you have some experience in administering a vSphere or vCloud environment. Knowledge of Microsoft's Windows PowerShell is not a prerequisite. What You Will Learn Explore PowerShell and PowerCLI cmdlets and their output objects See how to manage virtual machines and work with virtual networks Manage vCloud Director from PowerCLI Use Site Recovery Manager from PowerCLI to create a disaster recovery solution Manage NSX and vRealize Automation using REST API with PowerCLI Create and configure vSphere HA and DRS clusters Use vSphere Update Manager with PowerCLI to create patch baselines and scan hosts Explore reporting techniques to retrieve log files In Detail VMware vSphere PowerCLI, a free extension to Microsoft Windows PowerShell, enables you to automate the management of a VMware vSphere or vCloud environment. This book will show you how to automate your tasks and make your job easier. Starting with an introduction to the basics of PowerCLI, the book will teach you how to manage your vSphere and vCloud infrastructure from the command line. To help you manage a vSphere host overall, you will learn how to manage vSphere ESXi hosts, host profiles, host services, host firewall, and deploy and upgrade ESXi hosts using Image Builder and Auto Deploy. The next chapter will not only teach you how to create datastore and datastore clusters, but you'll also work with profile-driven and policy-based storage to manage your storage. To create a disaster recovery solution and retrieve information from vRealize Operations, you will learn how to use Site Recovery Manager and vRealize Operations respectively. Towards the end, you'll see how to use the REST APIs from PowerShell to manage NSX and vRealize Automation and create patch baselines, scan hosts against the baselines for missing patches, and re-mediate hosts. By the end of the book, you will be capable of using the best tool to automate the management and configuration of VMware vSphere. Style and approach This comprehensive book will teach system administrators everything about PowerCLI 6 and how to utilize it to automate VMware vSphere. "This book is a must have resource guide for anyone who wants to ... implement TXT within their environments. I wish we had this guide when our engineering teams were implementing TXT on our solution platforms!" John McAuley, EMC Corporation "This book details innovative technology that provides significant benefit to both the cloud consumer and the cloud provider when working to meet the ever increasing requirements of trust and control in the cloud." Alex Rodriguez, Expedient Data Centers "This book is an invaluable reference for understanding enhanced server security, and how to deploy and leverage computing environment trust to reduce supply chain risk." Pete Nicoletti, Virtustream Inc. Intel® Trusted Execution Technology (Intel TXT) is a new security technology that started appearing on Intel server platforms in 2010. This book explains Intel Trusted Execution Technology for Servers, its purpose, application, advantages, and limitations. This book guides the server administrator / datacenter manager in enabling the technology as well as establishing a launch control policy that he can use to customize the server's boot process to fit the datacenter's requirements. This book explains how the OS (typically a Virtual Machine Monitor or Hypervisor) and supporting software can build on the secure facilities afforded by Intel TXT to provide additional security features and functions. It provides examples how the datacenter can create and use trusted pools. With a foreword from Albert Caballero, the CTO at Trapezoid. Heavy tails—extreme events or values more common than expected—emerge everywhere: the economy, natural events, and social and information networks are just a few examples. Yet after decades of progress, they are still treated as mysterious, surprising, and even controversial, primarily because the necessary mathematical models and statistical methods are not widely known. This book, for the first time, provides a rigorous introduction to heavy-tailed distributions accessible to anyone who knows elementary probability. It tackles and tames the zoo of terminology for models and properties, demystifying topics such as the generalized central limit theorem and regular variation. It tracks the natural emergence of heavy-tailed distributions from a wide variety of general processes, building intuition. And it reveals the controversy surrounding heavy tails to be the result of flawed statistics, then equips readers to identify and estimate with confidence. Over 100 exercises complete this engaging package. This IBM® Redpaper™ publication describes the adapter-based virtualization capabilities that are being deployed in high-end IBM POWER7+™ processor-based servers. Peripheral Component Interconnect Express (PCIe) single root I/O virtualization (SR-IOV) is a virtualization technology on IBM Power Systems servers. SR-IOV allows multiple logical partitions (LPARs) to share a PCIe adapter with little or no run time involvement of a hypervisor or other virtualization intermediary. SR-IOV does not replace the existing virtualization capabilities that are offered as part of the IBM PowerVM® offerings. Rather, SR-IOV complements them with additional capabilities. This paper describes many aspects of the SR-IOV technology, including: A comparison of SR-IOV with standard virtualization technology Overall benefits of SR-IOV Architectural overview of SR-IOV Planning requirements SR-IOV deployment models that use standard I/O virtualization Configuring the adapter for dedicated or shared modes Tips for maintaining and troubleshooting your system Scenarios for configuring your system This paper is directed to clients, IBM Business Partners, and system administrators who are involved with planning, deploying, configuring, and maintaining key virtualization technologies. Stop being a prisoner to your PC! Need a PC problem fixed in a pinch? Presto! Troubleshooting & Maintaining Your PC All-in-One For Dummies offers 5 books in 1 and takes the pain out of wading through those incomprehensible manuals, or waiting for a high-priced geek to show up days or weeks after you need them. Arming you with everything you need to get that pesky PC working for you ASAP, this handy guide walks you through all the steps to restoring whatever's making your PC go rogue—so you can get back to making it work for you. There's nothing worse than firing up your PC only to discover it's inexplicably unresponsive. With this guide, you'll gain all the skills and insight you need to bring it back to life—and to prevent it from ever leaving you in the lurch again. Find out what's behind common PC problems Solve email and web woes, both big and small Perform regular maintenance and get serious about backups Troubleshoot to find solutions to your issues and learn proper maintenance to head off future headaches! Your PC problems aren't as big as you think! Take matters into your own hands with the helpful instruction provided inside this book! Queries not running fast enough? Wondering about the in-memory database features in 2014? Tired of phone calls from frustrated users? Grant Fritchey's book SQL Server Query Performance Tuning is the answer to your SQL Server query performance problems. The book is revised to cover the very latest in performance optimization features and techniques, especially including the newly-added, in-memory database features formerly known under the code name Project Hekaton. This book provides the tools you need to approach your queries with performance in mind. SQL Server Query Performance Tuning leads you through understanding the causes of poor performance, how to identify them, and how to fix them. You'll learn to be proactive in establishing performance baselines using tools like Performance Monitor and Extended Events. You'll learn to recognize bottlenecks and defuse them before the phone rings. You'll learn some quick solutions too, but emphasis is on designing for performance and getting it right, and upon heading off trouble before it occurs. Delight your users. Silence that ringing phone. Put the principles and lessons from SQL Server Query Performance Tuning into practice today. Covers the in-memory features from Project Hekaton Helps establish performance baselines and monitor against them Guides in troubleshooting and eliminating of bottlenecks that frustrate users This study guide helps you prepare for the HPE ATP Server Solutions V4 certification exam (HPE0-S52). Organized along the lines of exam topics and objectives, chapters can be studied independently when preparing for certification. If you already hold the HPE ATP Server Solutions V3 certification and want to acquire the HPE ATP Server Solutions V4 certification, this guide also covers the topics in the Building HPE Server Solutions delta exam (HPE0-S53). This book is a collection of outstanding content written by experts working in the field of multimedia security. It provides an insight about various techniques used in multimedia security and identifies its progress in both technological and algorithmic perspectives. In the contemporary world, digitization offers an effective mechanism to process, preserve and transfer all types of information. The incredible progresses in computing and communication technologies augmented by economic feasibility have revolutionized the world. The availability of efficient algorithms together with inexpensive digital recording and storage peripherals have created a multimedia era bringing conveniences to people in sharing the digital data that includes images, audio and video. The ever-increasing pace, at which the multimedia and communication technology is growing, has also made it possible to combine, replicate and distribute the content faster and easier, thereby empowering mankind by having a wealth of information at their disposal. However, security of multimedia is giving tough time to the research community around the globe, due to ever-increasing and efficient attacks carried out on multimedia data by intruders, eaves-droppers and hackers. Further, duplication, unauthorized use and mal-distribution of digital content have become a serious challenge as it leads to copyright violation and is considered to be the principal reason that refrains the information providers in freely sharing their proprietary digital content. The book is useful for students, researchers and professionals to advance their study. This book constitutes the refereed proceedings of the 10th International Andrei Ershov Informatics Conference, PSI 2015, held in Kazan and Innopolis, Russia, in August 2015. The 2 invited and 23 full papers presented in this volume were carefully reviewed and selected from 56 submissions. The papers cover various topics related to the foundations of program and system development and analysis, programming methodology and software engineering and information technologies. Remain highly competitive in the server and VM market by gaining the practical skills needed to operate Nano Server About This Book The days of the local server are numbered, and this book will make you an ace by giving you the skills needed to administer Nano Server and survive in the brave new server world Learn to quickly automate multiple VMs and support Hyper-V clusters, all through small footprints from a single host Apply up-to-date, real-world examples presented in this book and improve the scalability and efficiency of large-scale VM deployments Who This Book Is For This book opens up new potential for both developers and IT pros alike. The book is primarily for Server administrators and IT Professionals who would like to deploy and administer Nano Server within their organizations, and for developers who are trying to make maximal use of Server Containers and Hyper-V Containers with Nano Servers. What You Will Learn Understand Nano Server Deploy Nano Server Deploy Hyper-V Clusters on Nano Server Deploy Nano Server with SCVMM Manage Nano Server using PowerShell and Remote Server Management Tools Manage Nano Server with third-party tools Run Server Containers and Hyper-V Containers on Nano Server Troubleshoot Nano Server Validate developed applications that run on Nano Server In Detail Nano Server allows developers and operations teams to work closely together and use containers that package applications so that the entire platform works as one. The aim of Nano Server is to help applications run the way they are intended to. It can be used to run and deploy infrastructures (acting as a compute host, storage host, container, or VM guest operating system) without consuming significant resources. Although Nano

Server isn't intended to replace Server 2016 or 2012 R2, it will be an attractive choice for developers and IT teams. Want to improve your ability to deploy a new VM and install and deploy container apps within minutes? You have come to the right place! The objective of this book is to get you started with Nano Server successfully. The journey is quite exciting, since we are introducing you to a cutting-edge technology that will revolutionize today's datacenters. We'll cover everything from the basic to advanced topics. You'll discover a lot of added value from using Nano Server, such as hundreds of VM types on a single host through a small footprint, which could be a big plus for you and your company. After reading this book, you will have the necessary skills to start your journey effectively using Nano Server. Style and approach Gauge all the information needed to get up-and-running with the latest Nano Server built by Microsoft using this easy to follow step-by-step guide. This IBM® Redpaper™ publication is a comprehensive guide that covers the IBM Power System AC922 server (8335-GTG and 8335-GTW models). The Power AC922 server is the next generation of the IBM Power processor-based systems, which are designed for deep learning and artificial intelligence (AI), high-performance analytics, and high-performance computing (HPC). This paper introduces the major innovative Power AC922 server features and their relevant functions: Powerful IBM POWER9™ processors that offer 16 cores at 2.6 GHz with 3.09 GHz turbo performance or 20 cores at 2.0 GHz with 2.87 GHz turbo for the 8335-GTG Eighteen cores at 2.98 GHz with 3.26 GHz turbo performance or 22 at 2.78 GHz cores with 3.07 GHz turbo for the 8335-GTW IBM Coherent Accelerator Processor Interface (CAPI) 2.0, IBM OpenCAPITM, and second-generation NVIDIA NVLink technology for exceptional processor-to-accelerator intercommunication Up to six dedicated NVIDIA Tesla V100 GPUs This publication is for professionals who want to acquire a better understanding of IBM Power Systems™ products and is intended for the following audiences: Clients Sales and marketing professionals Technical support professionals IBM Business Partners Independent software vendors (ISVs) This paper expands the set of IBM Power Systems documentation by providing a desktop reference that offers a detailed technical description of the Power AC922 server. This paper does not replace the current marketing materials and configuration tools. It is intended as an extra source of information that, together with existing sources, can be used to enhance your knowledge of IBM server solutions. Provides information on using a PC, covering such topics as hardware, networking, burning CDs and DVDs, using the Internet, and upgrading and replacing parts. IBM® SmartCloud™ Entry provides a fully integrated software stack for transforming a virtualized environment to a cloud environment. The intuitive self-service portal allows users to get up and running quickly. Built-in workload metering and additional tools enable tight controls and planning. The IBM Reference Configuration for VMware on IBM System x® with SmartCloud Entry provides an affordable, easy to deploy, private cloud architecture with configurations based on leading-edge technology from IBM, VMware, and Juniper Networks. The reference configuration is for midsized companies that need simpler and affordable IT solutions, without compromising on functionality. IBM and VMware, world leaders in enterprise-class IT solutions, are now bringing IT solutions tailored to the midmarket. This IBM Redpaper™ publication provides setup, configuration, and deployment details for the reference configuration and is intended for IT professionals who are familiar with software and hardware setup and configuration. Systems Performance, Second Edition, covers concepts, strategy, tools, and tuning for operating systems and applications, using Linux-based operating systems as the primary example. A deep understanding of these tools and techniques is critical for developers today. Implementing the strategies described in this thoroughly revised and updated edition can lead to a better end-user experience and lower costs, especially for cloud computing environments that charge by the OS instance. Systems performance expert and best-selling author Brendan Gregg summarizes relevant operating system, hardware, and application theory to quickly get professionals up to speed even if they have never analyzed performance before. Gregg then provides in-depth explanations of the latest tools and techniques, including extended BPF, and shows how to get the most out of cloud, web, and large-scale enterprise systems. Key topics covered include Hardware, kernel, and application internals, and how they perform Methodologies for rapid performance analysis of complex systems Optimizing CPU, memory, file system, disk, and networking usage Sophisticated profiling and tracing with perf, Ftrace, and BPF (BCC and bpftrace) Performance challenges associated with cloud computing hypervisors Benchmarking more effectively Featuring up-to-date coverage of Linux operating systems and environments, Systems Performance, Second Edition, also addresses issues that apply to any computer system. The book will be a go-to reference for many years to come and, like the first edition, required reading at leading tech companies. Register your book for convenient access to downloads, updates, and/or corrections as they become available. See inside book for details. The second edition of this book updates and expands upon a historically important collection of mathematical problems first published in the United States by Birkhäuser in 1981. These problems serve as a record of the informal discussions held by a group of mathematicians at the Scottish Café in Lwów, Poland, between the two world wars. Many of them were leaders in the development of such areas as functional and real analysis, group theory, measure and set theory, probability, and topology. Finding solutions to the problems they proposed has been ongoing since World War II, with prizes offered in many cases to those who are successful. In the 35 years since the first edition published, several more problems have been fully or partially solved, but even today many still remain unsolved and several prizes remain unclaimed. In view of this, the editor has gathered new and updated commentaries on the original 193 problems. Some problems are solved for the first time in this edition. Included again in full are transcripts of lectures given by Stanislaw Ulam, Mark Kac, Antoni Zygmund, Paul Erdős, and Andrzej Granas that provide amazing insights into the mathematical environment of Lwów before World War II and the development of The Scottish Book. Also new in this edition are a brief history of the University of Wrocław's New Scottish Book, created to revive the tradition of the original, and some selected problems from it. The Scottish Book offers a unique opportunity to communicate with the people and ideas of a time and place that had an enormous influence on the development of mathematics and try their hand on the unsolved problems. Anyone in the general mathematical community with an interest in the history of modern mathematics will find this to be an insightful and fascinating read. The all-in-one study solution - mapping directly to HP Proliant AIS/ASE Exam Objectives, from HP's Official Publishing Partner. "Easy-to-manage deployment and virtualization"--cover.

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