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4F7 - CUMMINGS KORBIN

The best-selling text on SSH, newly revised and updated! Secure Shell (SSH) lets sysadmins securely manage remote systems. It's powerful, complicated, and confusing. Lose the confusion. SSH Mastery: OpenSSH, PuTTY, Tunnels and Keys rescues you from sifting through decades of obsolete online tutorials and quickly makes you an SSH journeyman. You'll learn to · eliminate passwords · manage access by users, groups, addresses, and more · securely move files around your network · forward graphic displays · proxy TCP connections · build SOCKS proxies · centrally manage and distribute keys and configurations · use SSH as secure transport for other applications · build virtual private networks · create Certificate Authorities for truly large scale deployment Master Secure Shell with SSH Mastery! #ssh2e

Absolute FreeBSD, 2nd Edition covers installation, networking, security, network services, system performance, kernel tweaking, filesystems, SMP, upgrading, crash debugging, and much more, including coverage of how to: Use advanced security features like packet filtering, virtual machines, and host-based intrusion detection; Build custom live FreeBSD CDs and bootable flash; Manage network services and filesystems; Use DNS and set up email, IMAP, web, and FTP services for both servers and clients; Monitor your system with performance-testing and troubleshooting tools; Run diskless systems; Manage schedulers, remap shared libraries, and optimize your system for your hardware and your workload; Build custom network appliances with embedded FreeBSD; Implement redundant disks, even without special hardware; Integrate FreeBSD-specific SNMP into your network management system. - Publisher.

FreeBSD is one of the oldest and most featureful open-source

Unix-like operating systems. FreeBSD Mastery: Storage Essentials takes you on a deep dive into FreeBSD's disk management systems. Don't just configure your storage. Understand it. Get FreeBSD Mastery: Storage Essentials today!

Exiting Mastering Vim Quickly One of the beautiful things about learning Vim is the fact that you don't need to know everything. You only need to understand a few critically important concepts that provide most of the value. If you invest the time and energy necessary to learn these concepts, you'll easily be in the top 1% of the human population when it comes to productivity in coding/programming/text editing. Instead of trying to absorb all of the Vim knowledge- and there's really a lot out there -use this book to get what matters the most. Readers of digital editions have said: Mastering Vim Quickly is a great tour through the most important aspects and concepts of Vim. It starts beginner friendly and quickly advances to show more involved text editing techniques. Throughout the book I especially liked the focus on large scale operations. With numerous realistic examples it teaches how various simple commands can be combined in different ways to achieve powerful transformations across multiple files. And even if you already know all the topics covered in the book, it will refresh your knowledge and fuel your curiosity about the depths of Vim once again. - Christian Wellenbrock, the creator of the target-s.vim plugin I have been using vi editor for almost 20 years and in the very first chapter, I found some new tips. It is easy to follow. It comes with useful tips, not only cool tips. Makes you more confident on using vi. You can find what you need with ease. I would absolutely recommend it! A very nice job doing this book. - G. Santovena A very approachable way to learn Vim. The writing is really good and contains a fine balance between explanations, examples and tips. It covers all the topics you need to know to really un-

derstand what Vim is about and why so many people choose it. If you are either just getting started or you have been wanting to switch to Vim full-time you will find this book to be the perfect reference. - Mariano Cavallo, Front-end Developer What can you learn? How to exit Vim (this is a very important skill, as you might have heard) The power of Mini habits How to improve your skills 38x in one year How to personalize and properly configure Vim How to speak the Vim language Registers, buffers and windows-the right way The power of Visual modes, argdo, bufdo, etc. Ranges and substitution Boost your productivity in Vim How to install and manage plugins The magic of recursive macros and much more...

CONFINE YOUR SOFTWARE Jails are FreeBSD's most legendary feature: known to be powerful, tricky to master, and cloaked in decades of dubious lore. Deploying jails calls upon every sysadmin skill you have, and more—but unleashing lightweight virtualization is so worth it. FreeBSD Mastery: Jails cuts through the clutter to expose the inner mechanisms of jails and unleash their power in your service. You will: · Understand how jails achieve lightweight virtualization · Understand the base system's jail tools and the iocage toolkit · Optimally configure jail hardware · Manage jails from the host and from within the jail · Optimize disk space usage to support hundreds or thousands of jails · Comfortably work within the limits of jails · Implement fine-grained control of jail features · Build virtual networks · Deploy hierarchical jails · Constrain jail resource usage · And more! Strip away the mystery. Read FreeBSD Mastery: Jails today! "This is the sequel to Git Commit Murder, right ?" /phk, creator of the jail system Filesystems for everything! FreeBSD includes many special-purpose filesystems. FreeBSD Mastery: Specialty Filesystems takes you through these filesystems, helping you solve problems you

didn't know you have. These filesystems underlie everything from application servers to jails. You'll learn to manage: -removable media -MSDOS and Linux filesystems -CD, DVD, and Blu-Ray disks -devfs -process filesystems -the file descriptor filesystem -the POSIX message queue filesystem -union mounts -null mounts - both memory filesystems, and when to use each -NFS versions 2, 3, and 4 -iSCSI targets and initiators -the Common Internet File System -networked disk redundancy with geom_gate and HAST -high availability storage with HAST and iSCSI -NFSv4 Access Control Lists -User Space Filesystems -FreeBSD's Solaris-compatible automounter System administrators of any expertise level will expand their FreeBSD mastery with *FreeBSD Mastery: Specialty Filesystems*.

Covering all aspects of the Unix operating system and assuming no prior knowledge of Unix, this book begins with the fundamentals and works from the ground up to some of the more advanced programming techniques The authors provide a wealth of real-world experience with the Unix operating system, delivering actual examples while showing some of the common misconceptions and errors that new users make Special emphasis is placed on the Apple Mac OS X environment as well as Linux, Solaris, and migrating from Windows to Unix A unique conversion section of the book details specific advice and instructions for transitioning Mac OS X, Windows, and Linux users

This updated edition of Michael W. Lucas' definitive volume on FreeBSD-based systems adds coverage of modern disks, the ZFS filesystem IPv6, redesigned jail and packaging systems, and virtualization, among dozens of new features added in the last 10 years. FreeBSD is the muscle behind companies like Netflix and EMC. Any place where someone does heavy lifting on the Internet, you'll find FreeBSD. This newly revised edition of *Absolute FreeBSD* brings FreeBSD's strengths to bear on your problems and covers FreeBSD's newest features, all in the inimitable style that has made author Michael W. Lucas' system administration books so popular. Any computer system is only as good as the system administrator's knowledge. *Absolute FreeBSD* teaches you everything you need to know about managing FreeBSD systems, from installation, configuration, and taking the system from "just working" to "working well." A cohesive focus on service delivery and best practice means that you can apply much of the book to other operating systems. *Absolute FreeBSD* dives deep into server

management, taking you beyond just making things work and into understanding why they work. You'll learn: • How to best install FreeBSD to meet your needs • Which filesystem to use in your environment • How to back up and restore critical data • How to tweak the kernel, and when not to • Network configuration, from activating interfaces to selecting congestion control algorithms • How to manage UFS, ZFS, and other critical filesystems • FreeBSD's software packaging system, including how to build your own package repository • How and when to upgrade • Techniques to build your own FreeBSD • Advanced security features like blacklistd and packet filtering • How to monitor and adjust performance • Container-style virtualization with jails • Diskless systems • Panic management and bug reporting With *Absolute FreeBSD* you will get the solid introduction you need; and if you're a fan of the earlier editions, you will expand your skills even further.

Prepare for Microsoft Exam 70-740—and help demonstrate your real-world mastery of Windows Server 2016 installation, storage, and compute features and capabilities. Designed for experienced IT professionals ready to advance their status, *Exam Ref* focuses on the critical-thinking and decision-making acumen needed for success at the MCSA level. Focus on the expertise measured by these objectives: • Install Windows Servers in host and compute environments • Implement storage solutions • Implement Hyper-V • Implement Windows containers • Implement high availability • Maintain and monitor server environments This Microsoft Exam Ref: • Organizes its coverage by exam objectives • Features strategic, what-if scenarios to challenge you • Assumes you have experience working with Windows Server in an enterprise environment; are familiar with core networking infrastructure, topologies, architectures, and protocols; and have experience with Windows clients and virtualization About the Exam Exam 70-740 focuses on the skills and knowledge necessary to implement and configure storage and compute features and functionality in Windows Server 2016. About Microsoft Certification Passing this exam earns you credit toward a Microsoft Certified Solutions Associate (MCSA) certification that demonstrates your mastery of core Windows Server 2016 skills for reducing IT costs and delivering more business value. Exam 70-741 (Networking with Windows Server 2016) and Exam 70-742 (Identity with Windows Server 2016) are also required for MCSA: Windows Server 2016 certification. See full de-

tails at: microsoft.com/learning

You asked. He didn't answer. The We Get Letters column of the FreeBSD Journal has been called "a tsunami of bile disguised as experience and erudition," "a torment to the eye and a stain upon the soul," and "the corroded battleship anchor that will drag an otherwise illustrious Journal to an ignominious demise." If you ask people who aren't the columnist, you'll get a less luminous view. Perhaps even negative. We sincerely apologize. This collection of the first three years illustrates how rapidly Lucas abandoned any pretense of answering questions usefully—or, indeed, paying any attention whatsoever to his correspondents. It is unacceptable. What the editors conceived of as an innocent letters column quickly transcended bitterness to become elevated, even elegant enmity. Against everyone. Apologies are insufficient. In an attempt to keep these columns from teaching other articles bad habits, we have confined them in their own private volume. The publisher expects it to be presented as evidence at his inevitable competency hearings, as well as most of the civil suits. Next week's suits, at least. "While we appreciate Mr Lucas' unique contributions to the Journal, we do feel his specific talents are not being fully utilized. Please buy his books, his hours, autographed photos, whatever so that he is otherwise engaged." - John Baldwin, FreeBSD Journal Editorial Board Chair

"This book covers a wide spectrum of topics relevant to implementing and managing a modern data center. The chapters are comprehensive and the flow of concepts is easy to understand." - Cisco reviewer Gain a practical knowledge of data center concepts To create a well-designed data center (including storage and network architecture, VoIP implementation, and server consolidation) you must understand a variety of key concepts and technologies. This book explains those factors in a way that smoothes the path to implementation and management. Whether you need an introduction to the technologies, a refresher course for IT managers and data center personnel, or an additional resource for advanced study, you'll find these guidelines and solutions provide a solid foundation for building reliable designs and secure data center policies. * Understand the common causes and high costs of service outages * Learn how to measure high availability and achieve maximum levels * Design a data center using optimum physical, environmental, and technological elements * Explore a modular design for cabling, Points of Distribu-

tion, and WAN connections from ISPs * See what must be considered when consolidating data center resources * Expand your knowledge of best practices and security * Create a data center environment that is user- and manager-friendly * Learn how high availability, clustering, and disaster recovery solutions can be deployed to protect critical information * Find out how to use a single network infrastructure for IP data, voice, and storage

A detailed and complete guide to exporting, collecting, analyzing, and understanding network flows to make managing networks easier. Network flow analysis is the art of studying the traffic on a computer network. Understanding the ways to export flow and collect and analyze data separates good network administrators from great ones. The detailed instructions in Network Flow Analysis teach the busy network administrator how to build every component of a flow-based network awareness system and how network analysis and auditing can help address problems and improve network reliability. Readers learn what flow is, how flows are used in network management, and how to use a flow analysis system. Real-world examples illustrate how to best apply the appropriate tools and how to analyze data to solve real problems. Lucas compares existing popular tools for network management, explaining why they don't address common real-world issues and demonstrates how, once a network administrator understands the underlying process and techniques of flow management, building a flow management system from freely-available components is not only possible but actually a better choice than much more expensive systems.

FreeBSD—the powerful, flexible, and free Unix-like operating system—is the preferred server for many enterprises. But it can be even trickier to use than either Unix or Linux, and harder still to master. Absolute FreeBSD, 2nd Edition is your complete guide to FreeBSD, written by FreeBSD committer Michael W. Lucas. Lucas considers this completely revised and rewritten second edition of his landmark work to be his best work ever; a true product of his love for FreeBSD and the support of the FreeBSD community. Absolute FreeBSD, 2nd Edition covers installation, networking, security, network services, system performance, kernel tweaking, filesystems, SMP, upgrading, crash debugging, and much more, including coverage of how to:—Use advanced security features like packet filtering, virtual machines, and host-based intrusion detection —Build custom live FreeBSD CDs and bootable flash —Manage

network services and filesystems —Use DNS and set up email, IMAP, web, and FTP services for both servers and clients —Monitor your system with performance-testing and troubleshooting tools —Run diskless systems —Manage schedulers, remap shared libraries, and optimize your system for your hardware and your workload —Build custom network appliances with embedded FreeBSD —Implement redundant disks, even without special hardware —Integrate FreeBSD-specific SNMP into your network management system. Whether you're just getting started with FreeBSD or you've been using it for years, you'll find this book to be the definitive guide to FreeBSD that you've been waiting for.

"Many users assume that their advanced filesystem is better than UFS because they have so many features—snapshots, checksums, compression, sophisticated caching algorithms, and so on—while all UFS has ever done is muck about putting data on disk. But, conversely, UFS users believe their filesystem is better for exactly the same reasons." —Hitchhikers Guide to OpenBSD
Disk management is the core of system administration. Nobody can tell you how large that database is going to grow or how many files that archive must eventually support, but for everything else there's OpenBSD Mastery: Filesystems. This guide takes you through the latest in OpenBSD storage management, including: · OpenBSD's cross-platform storage stack · MBR, GPT, and disklabel partitions · The Unix File System · Growing, removing, and repairing filesystems · Memory file systems · The Buffer Cache · Why you need swap, and how to live with it · Coping with FAT, NTFS, EXT, and more · The Network File System · iSCSI · Software RAID · Encrypted filesystems · Encrypted installs And more! Partition yourself for success and grab OpenBSD Mastery: Filesystems now.

FreeBSD and OpenBSD are increasingly gaining traction in educational institutions, non-profits, and corporations worldwide because they provide significant security advantages over Linux. Although a lot can be said for the robustness, clean organization, and stability of the BSD operating systems, security is one of the main reasons system administrators use these two platforms. There are plenty of books to help you get a FreeBSD or OpenBSD system off the ground, and all of them touch on security to some extent, usually dedicating a chapter to the subject. But, as security is commonly named as the key concern for today's system administrators, a single chapter on the subject can't provide

the depth of information you need to keep your systems secure. FreeBSD and OpenBSD are rife with security "building blocks" that you can put to use, and Mastering FreeBSD and OpenBSD Security shows you how. Both operating systems have kernel options and filesystem features that go well beyond traditional Unix permissions and controls. This power and flexibility is valuable, but the colossal range of possibilities need to be tackled one step at a time. This book walks you through the installation of a hardened operating system, the installation and configuration of critical services, and ongoing maintenance of your FreeBSD and OpenBSD systems. Using an application-specific approach that builds on your existing knowledge, the book provides sound technical information on FreeBSD and OpenBSD security with plenty of real-world examples to help you configure and deploy a secure system. By imparting a solid technical foundation as well as practical know-how, it enables administrators to push their server's security to the next level. Even administrators in other environments—like Linux and Solaris—can find useful paradigms to emulate. Written by security professionals with two decades of operating system experience, Mastering FreeBSD and OpenBSD Security features broad and deep explanations of how how to secure your most critical systems. Where other books on BSD systems help you achieve functionality, this book will help you more thoroughly secure your deployments.

With 28 new chapters, the third edition of The Practice of System and Network Administration innovates yet again! Revised with thousands of updates and clarifications based on reader feedback, this new edition also incorporates DevOps strategies even for non-DevOps environments. Whether you use Linux, Unix, or Windows, this new edition describes the essential practices previously handed down only from mentor to protégé. This wonderfully lucid, often funny cornucopia of information introduces beginners to advanced frameworks valuable for their entire career, yet is structured to help even experts through difficult projects. Other books tell you what commands to type. This book teaches you the cross-platform strategies that are timeless! DevOps techniques: Apply DevOps principles to enterprise IT infrastructure, even in environments without developers Game-changing strategies: New ways to deliver results faster with less stress Fleet management: A comprehensive guide to managing your fleet of desktops, laptops, servers and mobile devices Service management: How to de-

sign, launch, upgrade and migrate services Measurable improvement: Assess your operational effectiveness; a forty-page, pain-free assessment system you can start using today to raise the quality of all services Design guides: Best practices for networks, data centers, email, storage, monitoring, backups and more Management skills: Organization design, communication, negotiation, ethics, hiring and firing, and more Have you ever had any of these problems? Have you been surprised to discover your backup tapes are blank? Ever spent a year launching a new service only to be told the users hate it? Do you have more incoming support requests than you can handle? Do you spend more time fixing problems than building the next awesome thing? Have you suffered from a botched migration of thousands of users to a new service? Does your company rely on a computer that, if it died, can't be rebuilt? Is your network a fragile mess that breaks any time you try to improve it? Is there a periodic "hell month" that happens twice a year? Twelve times a year? Do you find out about problems when your users call you to complain? Does your corporate "Change Review Board" terrify you? Does each division of your company have their own broken way of doing things? Do you fear that automation will replace you, or break more than it fixes? Are you underpaid and overworked? No vague "management speak" or empty platitudes. This comprehensive guide provides real solutions that prevent these problems and more!

With the growing popularity of Linux and the advent of Darwin, Unix has metamorphosed into something new and exciting. No longer perceived as a difficult operating system, more and more users are discovering the advantages of Unix for the first time. But whether you are a newcomer or a Unix power user, you'll find yourself thumbing through the goldmine of information in the new edition of Unix Power Tools to add to your store of knowledge. Want to try something new? Check this book first, and you're sure to find a tip or trick that will prevent you from learning things the hard way. The latest edition of this best-selling favorite is loaded with advice about almost every aspect of Unix, covering all the new technologies that users need to know. In addition to vital information on Linux, Darwin, and BSD, Unix Power Tools 3rd Edition now offers more coverage of bash, zsh, and other new shells, along with discussions about modern utilities and applications. Several sections focus on security and Internet access. And there is a new chapter on access to Unix from Windows, addressing the

heterogeneous nature of systems today. You'll also find expanded coverage of software installation and packaging, as well as basic information on Perl and Python. Unix Power Tools 3rd Edition is a browser's book...like a magazine that you don't read from start to finish, but leaf through repeatedly until you realize that you've read it all. Bursting with cross-references, interesting sidebars explore syntax or point out other directions for exploration, including relevant technical details that might not be immediately apparent. The book includes articles abstracted from other O'Reilly books, new information that highlights program tricks and gotchas, tips posted to the Net over the years, and other accumulated wisdom. Affectionately referred to by readers as "the" Unix book, UNIX Power Tools provides access to information every Unix user is going to need to know. It will help you think creatively about UNIX, and will help you get to the point where you can analyze your own problems. Your own solutions won't be far behind. GIMP is a free alternative to Adobe Photoshop with tons of professional-grade features. But with so many powerful tools and menu options, GIMP can be difficult to master. Whether you're struggling to get started or trying to master some of GIMP's more complex features, you'll find the answers you're looking for in The Book of GIMP. The tutorials in the first half of the book walk you through essential GIMP skills, like resizing and cropping images, touching up spots and scratches, and customizing your work area. Illustrated, step-by-step instructions show you how to: -Improve the lighting and composition of images -Remove distortions and noise to make old and damaged photos look like new -Create stunning panoramas and digital collages using a series of photos -Make, edit, and export custom textures, logos, and animated GIFs -Work with selections, channels, and masks to edit images like a pro -Create colorful digital art, layer by layer The book's second half offers a comprehensive reference to GIMP's many features, including color balancing, masks, filters, and plug-ins. You'll find tools described in unparalleled detail, with coverage of nearly every option and parameter. With illustrated tutorials and detailed references, The Book of GIMP is sure to become your one-stop guide to just about everything GIMP.

Pluggable Authentication Modules: Threat or Menace? PAM is one of the most misunderstood parts of systems administration. Many sysadmins live with authentication problems rather than risk making them worse. PAM's very nature makes it unlike any other Unix

access control system. If you have PAM misery or PAM mysteries, you need PAM Mastery! With PAM Mastery, you'll understand: · the different versions of PAM · the intricacies of Linux-PAM and OpenPAM · how PAM policies make decisions · how to debug PAM · the most frequently seen PAM modules · Linux-PAM extended controls and substacks · time-based one-time passwords · using SSH keys for more than SSH · password quality testing · policies from CentOS, Debian, and FreeBSD · and more! Transform PAM from a headache to an ally with PAM Mastery.

Full Coverage of All Exam Objectives for the CEH Exams 312-50 and EC0-350 Thoroughly prepare for the challenging CEH Certified Ethical Hackers exam with this comprehensive study guide. The book provides full coverage of exam topics, real-world examples, and includes a CD with chapter review questions, two full-length practice exams, electronic flashcards, a glossary of key terms, and the entire book in a searchable pdf e-book. What's Inside: Covers ethics and legal issues, footprinting, scanning, enumeration, system hacking, trojans and backdoors, sniffers, denial of service, social engineering, session hijacking, hacking Web servers, Web application vulnerabilities, and more Walks you through exam topics and includes plenty of real-world scenarios to help reinforce concepts Includes a CD with an assessment test, review questions, practice exams, electronic flashcards, and the entire book in a searchable pdf

Python is a powerful, expressive programming language that's easy to learn and fun to use! But books about learning to program in Python can be kind of dull, gray, and boring, and that's no fun for anyone. Python for Kids brings Python to life and brings you (and your parents) into the world of programming. The ever-patient Jason R. Briggs will guide you through the basics as you experiment with unique (and often hilarious) example programs that feature ravenous monsters, secret agents, thieving ravens, and more. New terms are defined; code is colored, dissected, and explained; and quirky, full-color illustrations keep things on the lighter side. Chapters end with programming puzzles designed to stretch your brain and strengthen your understanding. By the end of the book you'll have programmed two complete games: a clone of the famous Pong and "Mr. Stick Man Races for the Exit"—a platform game with jumps, animation, and much more. As you strike out on your programming adventure, you'll learn how to: -Use fundamental data structures like lists, tuples, and maps -Organize

and reuse your code with functions and modules -Use control structures like loops and conditional statements -Draw shapes and patterns with Python's turtle module -Create games, animations, and other graphical wonders with tkinter Why should serious adults have all the fun? Python for Kids is your ticket into the amazing world of computer programming. For kids ages 10+ (and their parents) The code in this book runs on almost anything: Windows, Mac, Linux, even an OLPC laptop or Raspberry Pi!

Tarsnap, the secure online backup service for Unix-like systems, raised the bar for online backups. It's inexpensive. It's reliable. And you don't need to trust the Tarsnap service—they can't access your backups even if they wanted to. With Tarsnap Mastery you'll learn to: * install and manage Tarsnap on Linux, Unix, Windows, and OS X * fully exploit features like encryption and deduplication * create and recover archives * customize backups to precisely your requirements * passphrase protect keys * create and manage special-purpose keys * automatically back up and rotate archives * understand and resolve performance issues * quickly restore complete systems Ditch the tape room. Put your backups online, and know that they're safe. Tarsnap Mastery. Because life doesn't back itself up. "I learned a lot about Tarsnap while reading this book - things I had forgotten, and things I had never even realized. As befits the author of so many technical books, Michael's attention to detail is truly outstanding." -Colin Percival, Tarsnap designer

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.

DNS The world's most successful distributed database—and the

most naïve. The Domain Name System is one of the Internet's oldest protocols, designed for a network without hostile users. Intruders targeting a network start by investigating their DNS. DNS Security Extensions, or DNSSEC, hardens DNS and brings it into the 21st century. Learning DNSSEC required wading through years of obsolete tutorials, dead ends, and inscrutable standards. Until now. This new edition of DNSSEC Mastery will have DNS administrators deploying DNSSEC with industry-standard software in hours instead of weeks. You will: · Understand what DNSSEC provides · Configure your servers to resist attack · Verify your environment supports modern DNS · Debug DNSSEC and the Chain of Trust · Sign your zones and attach them to the Chain of Trust · Conceal zone data with NSEC3 · Automate DNSSEC maintenance · Roll over keys to maintain integrity · Implement DNSSEC on private networks · Securely distribute security-critical information via DNS And more! DNSSEC Mastery transforms DNS from a headache to a solution.

Sudo: You're Doing It Wrong Unix-like operating systems use a rudimentary access control system: the root account can do anything, while other users are peasants with only minimal access. This worked fine in UNIX's youth, but now that sysadmin responsibilities are spread among many people and applications, many people need a tiny slice of root's power. Sudo lets you divide root's monolithic power between the people who need it with accountability and auditability. Sudo Mastery will teach you to: · design a secure sudo policy · simplify policies with lists and aliases · manage shell environments · verify system integrity via intrusion detection · deploy a single sudo policy across your enterprise · manage sudo policies via LDAP · log and debug sudo · record and replay full sudo sessions · use authentication systems other than passwords Master sudo with Sudo Mastery!

"I think we're gonna need a bigger web server." OpenBSD has a solid reputation for security and stability. It's well known for the OpenSMTPd mail server, the LibreSSL cryptography library, and the PF packet filter. But nobody ever talks about the load balancer, or the web server. Until now. The httpd web server provides a fast, stable, secure environment for your web applications. The relayd load balancer lets you distribute Internet application load across multiple hosts. Between the two, you can slash hundreds of thousands of dollars off the cost of building, deploying, and managing applications. With Httpd and Relayd Mastery

you'll learn how to: · set up web sites · configure software to run in a chroot · run dozens or hundreds of sites on one host · dynamically reconfigure sites with Lua patterns · manage site logs · maintain free, globally-valid SSL certificates · improve performance with SSL stapling · install and maintain two-server clusters · distribute traffic between any number of hosts · stop worrying about old SSL versions and bad crypto algorithms Slash the amount of time you spend futzing with web servers. Get Httpd and Relayd Mastery today!

Learn how to use BSD UNIX systems from the command line with BSD UNIX Toolbox: 1000+ Commands for FreeBSD, OpenBSD and NetBSD. Learn to use BSD operation systems the way the experts do, by trying more than 1,000 commands to find and obtain software, monitor system health and security, and access network resources. Apply your newly developed skills to use and administer servers and desktops running FreeBSD, OpenBSD, NetBSD, or any other BSD variety. Become more proficient at creating file systems, troubleshooting networks, and locking down security.

This is the eBook version of the print title. Note that the eBook does not provide access to the practice test software that accompanies the print book. Access to the appendixes and video lessons is available through product registration at Pearson IT Certification; or see instructions in back pages of your eBook. Learn, prepare, and practice for MCSA 70-740 exam success with this Cert Guide from Pearson IT Certification, a leader in IT certification. Master MCSA 70-740 exam topics Assess your knowledge with chapter-ending quizzes Review key concepts with exam preparation tasks Learn from more than one hour of video lessons MCSA 70-740 Cert Guide is a best-of-breed exam study guide. Leading technology trainer and consultant Anthony Sequeira shares preparation hints and test-taking tips, helping you identify areas of weakness and improve both your conceptual knowledge and hands-on skills. Material is presented in a concise manner, focusing on increasing your understanding and retention of exam topics. The book presents you with an organized test preparation routine through the use of proven series elements and techniques. Exam topic lists make referencing easy. Chapter-ending Exam Preparation Tasks help you drill on key concepts you must know thoroughly. Review questions help you assess your knowledge, and a final preparation chapter guides you through tools and resources to help you craft your final study plan. Well regarded for its level of

detail, assessment features, and challenging review questions and exercises, this study guide helps you master the concepts and techniques that will allow you to succeed on the exam the first time. The study guide helps you master all the topics on the MCSA 70-740 exam, including: Windows Server installation in host and compute environments, including Nano Server Storage: configuring disks and volumes, implementing server storage, and data duplication Hyper-V implementation, including VM settings, storage, and networking Windows container deployment and management High availability: HA/DR options, failover clustering, Storage Spaces Direct, VM movement, and network load balancing Server environment maintenance and monitoring

OpenBSD, the elegant, highly secure Unix-like operating system, is widely used as the basis for critical DNS servers, routers, firewalls, and more. This long-awaited second edition of Absolute OpenBSD maintains author Michael Lucas's trademark straightforward and practical approach that readers have enjoyed for years. You'll learn the intricacies of the platform, the technical details behind certain design decisions, and best practices, with bits of humor sprinkled throughout. This edition has been completely updated for OpenBSD 5.3, including new coverage of OpenBSD's boot system, security features like `W^X` and `ProPolice`, and advanced networking techniques. You'll learn how to: -Manage network traffic with VLANs, trunks, IPv6, and the PF packet filter -Make software management quick and effective using the ports and packages system -Give users only the access they need with groups, sudo, and chroots -Configure OpenBSD's secure implementations of SNMP, DHCP, NTP, hardware sensors, and more -Customize the installation and upgrade processes for your network and hardware, or build a custom OpenBSD release Whether you're a new user looking for a complete introduction to OpenBSD or an experienced sysadmin looking for a refresher, Absolute OpenBSD, 2nd Edition will give you everything you need to master the intricacies of the world's most secure operating system.

Every enterprise application creates data, whether it's log messages, metrics, user activity, outgoing messages, or something else. And how to move all of this data becomes nearly as important as the data itself. If you're an application architect, developer, or production engineer new to Apache Kafka, this practical guide shows you how to use this open source streaming platform to handle real-time data feeds. Engineers from Confluent and

LinkedIn who are responsible for developing Kafka explain how to deploy production Kafka clusters, write reliable event-driven microservices, and build scalable stream-processing applications with this platform. Through detailed examples, you'll learn Kafka's design principles, reliability guarantees, key APIs, and architecture details, including the replication protocol, the controller, and the storage layer. Understand publish-subscribe messaging and how it fits in the big data ecosystem. Explore Kafka producers and consumers for writing and reading messages Understand Kafka patterns and use-case requirements to ensure reliable data delivery Get best practices for building data pipelines and applications with Kafka Manage Kafka in production, and learn to perform monitoring, tuning, and maintenance tasks Learn the most critical metrics among Kafka's operational measurements Explore how Kafka's stream delivery capabilities make it a perfect source for stream processing systems

The FreeBSD Handbook is a comprehensive FreeBSD tutorial and reference. It covers installation, day-to-day use of FreeBSD, and much more, such as the Ports collection, creating a custom kernel, security topics, the X Window System, how to use FreeBSD's Linux binary compatibility, and how to upgrade your system from source using the 'make world' command, to name a few.

FreeBSD is one of the oldest and most featureful open-source Unix-like operating systems. FreeBSD Mastery: Storage Essentials takes you on a deep dive into FreeBSD's disk management systems. You'll learn about: identifying your storage hardware the Common Access Method GEOM-FreeBSD's powerful and flexible stackable storage system GUID Partition Tables, the modern disk partitioning standard MBR/disklabel partitioning, used by older and embedded systems avoiding common partitioning errors aligning partitions to the physical disk, for peak performance the high-performance Unix File System tuning UFS to fit your environment and load Two ways to journal filesystems, and when to use each The GELI and GBDE disk encryption systems, and when to use each Software-based disk mirroring, striping, RAID-5 and RAID-10. Custom FreeBSD installs And more! Don't just configure your storage. Understand it. Get FreeBSD Mastery: Storage Essentials today!

This book is an implementation tutorial covering step-by-step procedures, examples, and sample code, and has a practical approach to set up a Samba 4 Server as an Active Directory Domain

Controller and also set up different Samba 4 server roles. This book is ideal for system administrators who are new to the Samba 4 software, and who are looking to get a good grounding in how to use Samba 4 to implement Active Directory Services. It's assumed that you will have some experience with general system administration, Active Directory, and GNU/Linux systems. Readers are expected to have some test machines (virtual machines), which will be used to execute the examples within this book.

"I'm glad someone's finally giving ed the attention it deserves." - Ken Thompson, co-creator of Unix Let me be perfectly clear: ed is the standard Unix text editor. If you don't know ed, you're not a real sysadmin. Forty years after ed's introduction, internationally acclaimed author Michael W Lucas has finally unlocked the mysteries of ed for everyone. With Ed Mastery, you too can become a proper sysadmin. Ed Mastery will help you: · understand buffers and addresses · insert, remove, and mangle text · master file management and shell escapes · comprehend regular expressions, searches, and substitutions · create high-performance scripts for transforming files You must be at least this competent to use this computer. Read Ed Mastery today!

The Oracle Solaris DTrace feature revolutionizes the way you debug operating systems and applications. Using DTrace, you can dynamically instrument software and quickly answer virtually any question about its behavior. Now, for the first time, there's a comprehensive, authoritative guide to making the most of DTrace in any supported UNIX environment--from Oracle Solaris to OpenSolaris, Mac OS X, and FreeBSD. Written by key contributors to the DTrace community, DTrace teaches by example, presenting scores of commands and easy-to-adapt, downloadable D scripts. These concise examples generate answers to real and useful questions, and serve as a starting point for building more complex scripts. Using them, you can start making practical use of DTrace immediately, whether you're an administrator, developer, analyst, architect, or support professional. The authors fully explain the goals, techniques, and output associated with each script or command. Drawing on their extensive experience, they provide strategy suggestions, checklists, and functional diagrams, as well as a chapter of advanced tips and tricks. You'll learn how to Write effective scripts using DTrace's D language Use DTrace to thoroughly understand system performance Expose functional areas of the operating system, including I/O, filesystems, and protocols Use

DTrace in the application and database development process Identify and fix security problems with DTrace Analyze the operating system kernel Integrate DTrace into source code Extend DTrace with other tools This book will help you make the most of DTrace to solve problems more quickly and efficiently, and build systems that work faster and more reliably.

Transport Layer Security, or TLS, makes ecommerce and online banking possible. It protects your passwords and your privacy. Let's Encrypt transformed TLS from an expensive tool to a free one. TLS understanding and debugging is an essential sysadmin skill you must have. TLS Mastery takes you through: · How TLS works · What TLS provides, and what it doesn't · Wrapping unencrypted connections inside TLS · Assessing TLS configurations · The Automated Certificate Management Environment (ACME) protocol · Using Let's Encrypt to automatically maintain TLS certificates · Online Certificate Status Protocol · Certificate Revocation · CAA, HSTS, and Certificate Transparency · Why you shouldn't run your own CA, and how to do it anyway · and more! Stop wandering blindly around TLS. Master the protocol with TLS Mastery!

Assembly is a low-level programming language that's one step above a computer's native machine language. Although assembly language is commonly used for writing device drivers, emulators, and video games, many programmers find its somewhat unfriendly syntax intimidating to learn and use. Since 1996, Randall Hyde's *The Art of Assembly Language* has provided a comprehensive, plain-English, and patient introduction to 32-bit x86 assembly for non-assembly programmers. Hyde's primary teaching tool, High Level Assembler (or HLA), incorporates many of the features found in high-level languages (like C, C++, and Java) to help you quickly grasp basic assembly concepts. HLA lets you write true low-level code while enjoying the benefits of high-level language programming. As you read *The Art of Assembly Language*, you'll

learn the low-level theory fundamental to computer science and turn that understanding into real, functional code. You'll learn how to: -Edit, compile, and run HLA programs -Declare and use constants, scalar variables, pointers, arrays, structures, unions, and namespaces -Translate arithmetic expressions (integer and floating point) -Convert high-level control structures This much anticipated second edition of *The Art of Assembly Language* has been updated to reflect recent changes to HLA and to support Linux, Mac OS X, and FreeBSD. Whether you're new to programming or you have experience with high-level languages, *The Art of Assembly Language, 2nd Edition* is your essential guide to learning this complex, low-level language.

Learn the basics of do-it-yourself ZFS storage on Linux. This book delivers explanations of key features and provides best practices for planning, creating and sharing your storage. ZFS as a file system simplifies many aspects of the storage administrator's day-to-day job and solves a lot of problems that administrators face, but it can be confusing. Introducing ZFS on Linux addresses some of these issues and shows you how to resolve them. This book explains the technical side of ZFS, through planning the hardware list to planning the physical and logical layout of the storage. What You'll Learn Understand the gains ZFS gives system and storage administrators and utilize its features Install and configure ZFS software Create and maintain ZFS pool Administer ZFS storage, including sharing Who This Book is For This book is ideal for those who already have experience working with Linux systems but want to understand the bare basics of ZFS before moving further.

Secure Shell (SSH) lets systems administrators securely manage remote systems. But most people only use the bare minimum SSH offers. Used properly, SSH simplifies your job. This book saves you from sifting a decade of obsolete online tutorials and

quickly gets you running: SSH with the OpenSSH server and the PuTTY and OpenSSH clients. You will: Eliminate passwords. Manage access to your SSH server by users, groups, addresses, and more Securely move files around your network Forward graphic displays from one host to another Forward TCP connections Centrally manage host keys and client configurations Use SSH as a secure transport for other applications Secure applications run over SSH Build Virtual Private Networks with OpenSSH And more! This book simplifies the work of anyone using SSH. Small enough to read and implement quickly, exhaustive enough to include everything most of us need plus a little more. Master SSH with *SSH Mastery*

More physicists today are taking on the role of software developer as part of their research, but software development isn't always easy or obvious, even for physicists. This practical book teaches essential software development skills to help you automate and accomplish nearly any aspect of research in a physics-based field. Written by two PhDs in nuclear engineering, this book includes practical examples drawn from a working knowledge of physics concepts. You'll learn how to use the Python programming language to perform everything from collecting and analyzing data to building software and publishing your results. In four parts, this book includes: Getting Started: Jump into Python, the command line, data containers, functions, flow control and logic, and classes and objects Getting It Done: Learn about regular expressions, analysis and visualization, NumPy, storing data in files and HDF5, important data structures in physics, computing in parallel, and deploying software Getting It Right: Build pipelines and software, learn to use local and remote version control, and debug and test your code Getting It Out There: Document your code, process and publish your findings, and collaborate efficiently; dive into software licenses, ownership, and copyright procedures