Ssh Mastery Openssh Putty Tunnels And Keys Volume 12 It Mastery

Are you serious about network security? Then check out SSH, the Secure Shell, which provides key-based authentication and transparent encryption for your network connections. It's reliable, robust, and reasonably easy to use, and both free and commercial implementations are widely available for most operating systems. While it doesn't solve every privacy and security problem, SSH eliminates several of them very effectively. Everything you want to know about SSH is in our second edition of SSH, The Secure Shell: The Definitive Guide. This updated book thoroughly covers the latest SSH-2 protocol for system administrators and end users interested in using this increasingly popular TCP/IP-based solution. How does it work? Whenever data is sent to the network, SSH automatically encrypts it. When data reaches its intended recipient, SSH decrypts it. The result is "transparent" encryption-users can work normally, unaware that their communications are already encrypted. SSH supports secure file transfer between computers, secure remote logins, and a unique "tunneling" capability that adds encryption to otherwise insecure network applications. With SSH, users can freely navigate the Internet, and system administrators can secure their networks or perform remote administration. Written for a wide, technical audience, SSH, The Secure Shell: The Definitive Guide covers several implementations of SSH for different operating systems and computing environments. Whether you're an individual running Linux machines at home, a corporate network administrator with thousands of users, or a PC/Mac owner who just wants a secure way to telnet or transfer files between machines, our indispensable guide has you covered. It starts with simple installation and use of SSH, and works its way to in-depth case studies on large, sensitive computer networks. No matter where or how you're shipping information, SSH, The Secure Shell: The Definitive Guide will show you how to do it securely.

“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!

What are the ingredients of robust, elegant, flexible, and maintainable software architecture? Beautiful Architecture answers this question through a collection of intriguing essays from more than a dozen of today's leading software designers and architects. In each essay, contributors present a notable software architecture, and analyze what makes it innovative and ideal for its purpose. Some of the engineers in this book reveal how they developed a specific project, including decisions they faced and tradeoffs they made. Others take a step back to investigate how certain architectural aspects have influenced computing as a whole. With this book, you'll discover: How Facebook's architecture is the basis for a data-centric application ecosystem The effect of Xen's well-designed architecture on the way operating systems

evolve How community processes within the KDE project help software architectures evolve from rough sketches to beautiful systems How creeping featurism has helped GNU Emacs gain unanticipated functionality The magic behind the Jikes RVM self-optimizable, self-hosting runtime Design choices and building blocks that made Tandem the choice platform in high-availability environments for over two decades Differences and similarities between object-oriented and functional architectural views How architectures can affect the software's evolution and the developers' engagement Go behind the scenes to learn what it takes to design elegant software architecture, and how it can shape the way you approach your own projects, with Beautiful Architecture.

Hacking with Kali introduces you the most current distribution of the de facto standard tool for Linux pen testing. Starting with use of the Kali live CD and progressing through installation on hard drives, thumb drives and SD cards, author James Broad walks you through creating a custom version of the Kali live distribution. You'll learn how to configure networking components, storage devices and system services such as DHCP and web services. Once you're familiar with the basic components of the software, you'll learn how to use Kali through the phases of the penetration testing lifecycle; one major tool from each phase is explained. The book culminates with a chapter on reporting that will provide examples of documents used prior to, during and after the pen test. This guide will benefit information security professionals of all levels, hackers, systems administrators, network administrators, and beginning and intermediate professional pen testers, as well as students majoring in information security. Provides detailed explanations of the complete penetration testing lifecycle Complete linkage of the Kali information, resources and distribution downloads Hands-on exercises reinforce topics

The best-selling sysadmin text, now revised and updated! SSH Mastery is the industry standard work on using Secure Shell on Unix-like systems

FreeBSD is a powerful, flexible, and cost-effective UNIX-based operating system, and the preferred server platform for many enterprises. Includes coverage of installation, networking, add-on software, security, network services, system performance, kernel tweaking, file systems, SCSI & RAID configurations, SMP, upgrading, monitoring, crash debugging, BSD in the office, and emulating other OSs.

Stop waiting for the network team!If basic TCP/IP was hard, network administrators couldn't do it. Servers give sysadmins a incredible visibility into the network-once they know how to unlock it. Most sysadmins don't need to understand window scaling, or the differences between IPv4 and IPv6 echo requests, or other intricacies of the TCP/IP protocols. You need only enough to deploy your own applications and get easy support from the network team.This book teaches you:¿How modern networks really work¿The essentials of TCP/IP¿The next-generation protocol, IPv6¿The right tools to diagnose network problems, and how to use them¿Troubleshooting everything from the physical wire to DNS¿How to see the traffic you send and receive¿Connectivity testing¿How to communicate with your network team to quickly resolve problemsA systems administrator doesn't need to know the innards of TCP/IP, but knowing enough to diagnose your own network issues will transforms a good sysadmin into a great one.Fungi are among the most networked creatures in the world. If a mushroom can do it, so can you!

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. Learn, prepare, and practice for CompTIA Pentest+ PT0-001 exam success with this CompTIA Cert Guide from Pearson IT Certification, a leader in IT Certification. Master CompTIA Pentest+ PT0-001 exam topics Assess your knowledge with chapter-ending quizzes Review key concepts with exam preparation tasks Practice with realistic exam questions Get practical guidance for next steps and more advanced certifications CompTIA Pentest+ Cert Guide is a best-of-breed exam study guide. Leading IT security experts Omar Santos and Ron Taylor share 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 CompTIA study guide helps you master all the topics on the Pentest+ exam, including: Planning and scoping: Explain the importance of proper planning and scoping, understand key legal concepts, explore key aspects of compliance-based assessments Information gathering and vulnerability identification: Understand passive and active reconnaissance, conduct appropriate information gathering and use open source intelligence (OSINT); perform vulnerability scans; analyze results; explain how to leverage gathered information in exploitation; understand weaknesses of specialized systems Attacks and exploits: Compare and contrast social engineering attacks; exploit network-based, wireless, RF-based, application-based, and local host vulnerabilities; summarize physical security attacks; perform post-exploitation techniques Penetration testing tools: Use numerous tools to perform reconnaissance, exploit vulnerabilities and perform post-exploitation activities; leverage the Bash shell, Python, Ruby, and PowerShell for basic scripting Reporting and communication: Write reports containing effective findings and recommendations for mitigation; master best practices for reporting and communication; perform post-engagement activities such as cleanup of tools or shells

“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!

Unlike some operating systems, Linux doesn't try to hide the important bits from you—it gives you full control of your computer. But to truly master Linux, you need to understand its internals, like how the system boots, how networking works, and what the kernel actually does. In this completely revised second edition of the perennial best seller How Linux Works, author Brian Ward makes the concepts behind Linux internals accessible to anyone curious about the inner workings of the operating system. Inside, you'll find the kind of knowledge that normally comes from years of experience doing things the hard way. You'll learn: –How Linux boots, from boot loaders to init implementations (systemd, Upstart, and System V) –How the kernel manages devices, device drivers, and processes –How networking, interfaces, firewalls, and servers work –How development tools work and relate to shared libraries –How to write effective shell scripts You'll also explore the kernel and examine key system tasks inside user space, including system calls, input and output, and filesystems. With its combination of background, theory, real-world examples, and patient explanations, How Linux Works will teach you what you need to know to solve pesky problems and take control of your operating system.

Know how to set up, defend, and attack computer networks with this revised and expanded second edition. You will learn to configure your network from the ground up, beginning with developing your own private virtual test environment, then setting up your own DNS server and AD infrastructure. You will continue with more advanced network services, web servers, and database servers and you will end by building your own web applications servers, including WordPress and Joomla!. Systems from 2011 through 2017 are covered, including Windows 7, Windows 8, Windows 10, Windows Server 2012, and Windows Server 2016 as well as a range of Linux distributions, including Ubuntu, CentOS, Mint, and OpenSUSE. Key defensive techniques are integrated throughout and you will develop situational awareness of your network and build a complete defensive infrastructure, including log servers, network firewalls, web application firewalls, and intrusion detection systems. Of course, you cannot truly understand how to defend a network if you do not know how to attack it, so you will attack your test systems in a variety of ways. You will learn about Metasploit, browser attacks, privilege escalation, pass-the-hash attacks, malware, man-in-the-middle attacks, database attacks, and web application attacks. What You'll Learn Construct a testing laboratory to experiment with software and attack techniques Build realistic networks that include active directory, file servers, databases, web servers, and web applications such as WordPress and Joomla! Manage networks remotely with tools, including PowerShell, WMI, and WinRM Use offensive tools

such as Metasploit, Mimikatz, Veil, Burp Suite, and John the Ripper Exploit networks starting from malware and initial intrusion to privilege escalation through password cracking and persistence mechanisms Defend networks by developing operational awareness using auditd and Sysmon to analyze logs, and deploying defensive tools such as the Snort intrusion detection system, IPFire firewalls, and ModSecurity web application firewalls Who This Book Is For This study guide is intended for everyone involved in or interested in cybersecurity operations (e.g., cybersecurity professionals, IT professionals, business professionals, and students)

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.

SNMP is one of those system management skills that people acquire by experience, stumbling through one horrid implementation after another. SNMP Mastery is your guide to the secret landscape of one of computing's most mysterious tools. Stop stumbling through the SNMP minefield. Read SNMP Mastery today!

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

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 Open-BSD 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.

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!

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

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 Online Backup you can Trust and Verify! 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.

Logging and Log Management: The Authoritative Guide to Understanding the Concepts Surrounding Logging and Log Management introduces information technology professionals to the basic concepts of logging and log management. It provides tools and techniques to analyze log data and detect malicious activity. The book consists of 22 chapters that cover the basics of log data; log data sources; log storage technologies; a case study on how syslog-ng is deployed in a real environment for log collection; covert logging; planning and preparing for the analysis log data; simple analysis techniques; and tools and techniques for reviewing logs for potential problems. The book also discusses statistical analysis; log data mining; visualizing log data; logging laws and logging mistakes; open source and commercial toolsets for log data collection and analysis; log management procedures; and attacks against logging systems. In addition, the book addresses logging for programmers; logging and compliance with regulations and policies; planning for log analysis system deployment; cloud logging; and the future of log standards, logging, and log analysis. This book was written for anyone interested in learning more about logging and log management. These include systems administrators, junior security engineers, application developers, and managers. Comprehensive coverage of log management including analysis, visualization, reporting and more Includes information on different uses for logs -- from system operations to regulatory compliance Features case Studies on syslog-ng and actual real-world situations where logs came in handy in incident response Provides practical guidance in the areas of report, log analysis system

selection, planning a log analysis system and log data normalization and correlation
"Covers GNU Make basics through advanced topics, including: user-defined functions, macros, and path handling; creating makefile assertions and debugging makefiles; parallelization; automatic dependency generation, rebuilding targets, and non-recursive Make; and using the GNU Make Standard Library"--
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!
From the bestselling author of The 48 Laws of Power and The Laws of Human Nature, a vital work revealing that the secret to mastery is already within you. Each one of us has within us the potential to be a Master. Learn the secrets of the field you have chosen, submit to a rigorous apprenticeship, absorb the hidden knowledge possessed by those with years of experience, surge past competitors to surpass them in brilliance, and explode established patterns from within. Study the behaviors of Albert Einstein, Charles Darwin, Leonardo da Vinci and the nine contemporary Masters interviewed for this book. The bestseller author of The 48 Laws of Power, The Art of Seduction, and The 33 Strategies of War, Robert Greene has spent a lifetime studying the laws of power. Now, he shares the secret path to greatness. With this seminal text as a guide, readers will learn how to unlock the passion within and become masters.
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.
Chess is one of the most challenging - and enjoyable - games that has ever been played. It has a history that goes back over a thousand years, and there is some evidence that perhaps it is even older than that. The Rules of Chess is a free book, in electronic format, that will teach young and old how to play the “Royal Game.” Written by one of the great instructors of the modern era, Bruce Pandolfini, it is in fact a small excerpt from his extremely popular book Let’s Play Chess (2nd edition). After the material is presented, there is a section listing and describing the chess books published by Russell Enterprises, Inc. which are also available in electronic format. In the meantime, we hope you enjoy The Rules of Chess by Bruce Pandolfini...

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.

You've experienced the shiny, point-and-click surface of your Linux computer—now dive below and explore its depths with the power of the command line. The Linux Command Line takes you from your very first terminal keystrokes to writing full programs in Bash, the most popular Linux shell. Along the way you'll learn the timeless skills handed down by generations of gray-bearded, mouse-shunning gurus: file navigation, environment configuration, command chaining, pattern matching with regular expressions, and more. In addition to that practical knowledge, author William Shotts reveals the philosophy behind these tools and the rich heritage that your desktop Linux machine has inherited from Unix supercomputers of yore. As you make your way through the book's short, easily-digestible chapters, you'll learn how to: * Create and delete files, directories, and symlinks * Administer your system, including networking, package installation, and process management * Use standard input and output, redirection, and pipelines * Edit files with Vi, the world’s most popular text editor * Write shell scripts to automate common or boring tasks * Slice and dice text files with cut, paste, grep, patch, and sed Once you overcome your initial "shell shock," you'll find that the command line is a natural and expressive way to communicate with your computer. Just don't be surprised if your mouse starts to gather dust. A featured resource in the Linux Foundation's "Evolution of a SysAdmin"

"Secure Shell (SSH) lets sysadmins securely manage remote systems. It's powerful, complicated, and confusing. Lose the confusion. SSH Mastery rescues you from sifting through decades of obsolete online tutorials and quickly makes you an SSH journeyman"--Page 4 of cover

Firewalls, Network Address Translation (NAT), network logging and accounting are all provided by Linux's Netfilter system, also known by the name of the command used to administer it, iptables. The iptables interface is the most sophisticated ever offered onLinux and makes Linux an extremely flexible system for any kind of network filtering

you might do. Large sets of filtering rules can be grouped in ways that makes it easy to test them and turn them on and off.Do you watch for all types of ICMP traffic--some of them quite dangerous? Can you take advantage of stateful filtering to simplify the management of TCP connections? Would you like to track how much traffic of various types you get?This pocket reference will help you at those critical moments when someone asks you to open or close a port in a hurry, either to enable some important traffic or to block an attack. The book will keep the subtle syntax straight and help you remember all the values you have to enter in order to be as secure as possible. The book has an introductory section that describes applications,followed by a reference/encyclopaedic section with all the matches and targets arranged alphabetically.

Thoroughly revised and expanded, this second edition adds sections on MPLS, Security, IPv6, and IP Mobility and presents solutions to the most common configuration problems.

Thorough LPIC-1 exam prep, with complete coverage and bonusstudy tools LPIC-1Study Guide is your comprehensive source for thepopular Linux Professional Institute Certification Level 1 exam,fully updated to reflect the changes to the latest version of theexam. With 100% coverage of objectives for both LPI 101 and LPI102, this book provides clear and concise information on all Linuxadministration topics and practical examples drawn from real-worldexperience. Authoritative coverage of key exam topics includes GNUand UNIX commands, devices, file systems, file system hierarchy,user interfaces, and much more, providing complete exam prep forthe LPIC-1 candidate. Get access to invaluable study tools,including bonus practice exams, electronic flashcards, and asearchable PDF of key terms featured on the exam. Linux is viewed by many companies and organizations as anexcellent, low-cost, secure alternative to expensive operatingsystems, such as Microsoft Windows. The LPIC-1 tests a candidate'sunderstanding and familiarity with the Linux Kernel. This bookprovides comprehensive preparation and review, helping readers facethe exam with confidence. Review the system architecture, Linux installation, and packagemanagement Understand shells, scripting, and data management morecompletely Practice administrative tasks and essential systemservices Brush up on networking fundamentals and security issues As the Linux server market share continue to grow, so too doesthe demand for qualified and certified Linux administrators.Certification holders must recertify every five years, but LPIrecommends recertifying every two years to stay fully up to datewith new technologies and best practices. As exam day approaches,LPIC-1Study Guide is the one source you will want by yourside.

By its very nature, Unix is a " power tools " environment. Even beginning Unix users quickly grasp that immense power exists in shell programming, aliases and history mechanisms, and various editing tools. Nonetheless, few users ever really master the power available to them with Unix. There is just too much to learn! Unix Power Tools, Third Edition, literally contains thousands of tips, scripts, and techniques that make using Unix easier, more effective, and even more fun. This book is organized into hundreds of short articles with plenty of references to other sections that keep you flipping from new article to new article. You'll find the book hard to put down as you uncover one interesting tip after another. With the growing popularity of Linux and the

advent of Mac OS X, Unix has metamorphosed into something new and exciting. With Unix no longer perceived as a difficult operating system, more and more users are discovering its advantages for the first time. 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, Mac OS X, and BSD, Unix Power Tools, Third Edition, now offers more coverage of bcash, zsh, and 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. The book's accompanying web site provides some of the best software available to Unix users, which you can download and add to your own set of power tools. Whether you are a newcomer or a Unix power user, you'll find yourself thumbing through the gold mine of information in this 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 Nmap 6 Cookbook provides simplified coverage of network scanning features available in the Nmap suite of utilities. Every Nmap feature is covered with visual examples to help you quickly understand and identify proper usage for practical results.Topics covered include:* Installation on Windows, Mac OS X, and Unix/Linux platforms* Basic and advanced scanning techniques* Network inventory and auditing* Firewall evasion techniques* Zenmap - A graphical front-end for Nmap* NSE - The Nmap Scripting Engine* Ndiff - The Nmap scan comparison utility* Ncat - A flexible networking utility* Nping - Ping on steroids

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.

No, you are not paranoid. They are out to read your email. In this engaging and oddly reassuring text, practitioner Lucas describes Pretty Good Privacy (PGP) and Open Source GPG for moderately skilled computer geeks who are unfamiliar with public-key cryptography but want a cheap solution to security woes. He covers cryptography, installing OPENPGP

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.

“If you’re a developer trying to figure out why your application is not responding at 3 am, you need this book! This is now my go-to book when diagnosing production issues. It has saved me hours in troubleshooting complicated operations problems.” –Trotter Cashion, cofounder, Mashion DevOps can help developers, QAs, and admins work together to solve Linux server problems far more rapidly, significantly improving IT performance, availability, and efficiency. To gain these benefits, however, team members need common troubleshooting skills and practices. In DevOps Troubleshooting: Linux Server Best Practices , award-winning Linux expert Kyle Rankin brings together all the standardized, repeatable techniques your team needs to stop finger-pointing, collaborate effectively, and quickly solve virtually any Linux server problem. Rankin walks you through using DevOps techniques to troubleshoot everything from boot failures and corrupt disks to lost email and downed websites. You’ll master indispensable skills for diagnosing high-load systems and network problems in production environments. Rankin shows how to Master DevOps’ approach to troubleshooting and proven Linux server problem-solving principles Diagnose slow servers and applications by identifying CPU, RAM, and Disk I/O bottlenecks Understand healthy boots, so you can identify failure points and fix them Solve full or corrupt disk issues that prevent disk writes Track down the sources of network problems Troubleshoot DNS, email, and other network services Isolate and diagnose Apache and Nginx Web server failures and slowdowns Solve problems with MySQL and Postgres database servers and queries Identify hardware failures–even notoriously elusive intermittent failures

Authoritative Answers to All Your Samba Questions Linux Samba Server Administration is the most complete, most advanced guide to Samba you’ll find anywhere. Written by a leading Linux expert, this book teaches you, step-by-step, all the standard and advanced Samba techniques you'll need to make Linux and UNIX machines operate seamlessly as part of your Windows network. Throughout, scores of clear, consistent examples illustrate these techniques in detail—so you stay on track and accomplish all your goals. Coverage includes: Installing Samba Setting up file sharing Setting up printer sharing Using Samba as a client Setting up a working user authentication system Using automation to expand Samba's capabilities Setting up Samba as a domain controller Configuring NetBIOS name server functions Configuring Samba for optimal interoperation with other servers Managing user accounts Optimizing Samba for maximum speed Securing Samba against intrusion Using Samba as a backup server Troubleshooting Samba Configuring Samba to work with a variety of client OSs About the Library The Craig Hunt Linux Library is an eight-book set that provides in-depth, advanced coverage of the key topics for Linux administrators. Topics include Samba, System Administration, Sendmail, Apache, NFS and Automounter, and Linux Security. Each book in the library is either written by or meticulously reviewed by Craig Hunt to ensure the highest quality and most complete coverage of networking professionals working specifically in Linux environments.

System administrators need libraries of solutions that are ingenious but understandable. They don't want to reinvent the wheel, but they don't want to reinvent filesystem management either! Expert Shell Scripting is the ultimate resource for all working Linux, Unix, and OS X system administrators who would like to have short, succinct, and powerful shell implementations of tricky system scripting tasks. Automating small to medium system management tasks Analyzing system data and editing configuration files Scripting Linux, Unix, and OS X

applications using bash, ksh, et al.

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