

Ssh Mastery Openssh Putty Tunnels And Keys Volume 12 It Mastery

Software -- Operating Systems.

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 workThe essentials of TCP/IPThe next-generation protocol, IPv6The right tools to diagnose network problems, and how to use themTroubleshooting everything from the physical wire to DNSHow to see the traffic you send and receiveConnectivity testingHow 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

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.

Ed Mastery

The Networknomicon, Or SNMP Mastery

LPIC-1: Linux Professional Institute Certification Study Guide

POSIX Programmers Guide

Mastering Modern Linux

Istio: Up and Running

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.

Praise for the First Edition: "This outstanding book ... gives the reader robust concepts and implementable knowledge of this environment. Graphical user interface (GUI)-based users and developers do not get short shrift, despite the command-line interface's (CLI) full-power treatment. ... Every programmer should read the introduction's Unix/Linux philosophy section. ... This authoritative and exceptionally well-constructed book has my highest recommendation. It will repay careful and recursive study." --Computing Reviews, August 2011 Mastering Modern Linux, Second Edition retains much of the good material from the previous edition, with extensive updates and new topics added. The book provides a comprehensive and up-to-date guide to Linux concepts, usage, and programming. The text helps the reader master Linux with a well-selected set of topics, and encourages hands-on practice. The first part of the textbook covers interactive use of Linux via the Graphical User Interface (GUI) and the Command-Line Interface (CLI), including comprehensive treatment of the Gnome desktop and the Bash Shell. Using different apps, commands and filters, building pipelines, and matching patterns with regular expressions are major focuses. Next comes Bash scripting, file system structure, organization, and usage. The following chapters present networking, the Internet and the Web, data encryption, basic system admin, as well as Web hosting. The Linux Apache MySQL/MariaDB PHP (LAMP) Web hosting combination is also presented in depth. In the last part of the book, attention is turned to C-level programming. Topics covered include the C compiler, preprocessor, debugger, I/O, file manipulation, process control, inter-process communication, and networking. The book includes many examples and complete programs ready to download and run. A summary and exercises of varying degrees of difficulty can be found at the end of each chapter. A companion website (http://mml.sofpower.com) provides appendices, information updates, an example code package, and other resources for instructors, as well as students.

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

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.

SSH Mastery

100 Industrial Tip & Tools

The Definitive Guide

Mastering OpenVPN

Windows Subsystem for Linux 2 (WSL 2) Tips, Tricks, and Techniques

Uplift your regular applications with the power of statistics, analytics, and machine learning

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

"ModSecurity Handbook is the definitive guide to ModSecurity, a popular open source web application firewall. Written by Ivan Risti?, who designed and wrote much of ModSecurity, this book will teach you everything you need to know to monitor the activity on your web sites and protect them from attack. ... The official ModSecurity Reference Manual is included in the second part of the book."--Back cover.

In the world of Unix operating systems, the various BSDs come with a long heritage of high-quality software without restrictions. Steeped in the venerable Unix traditions the immense power and flexibility of the BSDs are yours to hack. Of course, first you have to know what you have at hand and how to use it. Written by trainers, developers, hobbyists, and administrators, BSD Hacks collects 100 tips and tricks to fill your toolbox. Whether you're a new user, an administrator, or a power user looking for new ideas to take your knowledge to the next level, each hack will let you peek inside the mind of another Unix fan. Learn how to : Customize and install software exactly as you want it on one or dozens of machines ; Configure the command line the way you like it, to speed up common tasks and make difficult things easy ; Be a good network neighbor, even to other operating systems ; Make the most of the copious documentation or find (and document) answers when there's no documentation ; Allocate bandwidth by time, department, or use ; Secure your system with good passwords, intelligent firewall rules, proper logging, and a little foresight ; Plan for and recover from disaster, including catastrophic Internet loss and hardware failures ; Automate your backups, safely and securely. BSD Hacks is for anyone using FreeBSD, OpenBSD, NetBSD, Darwin (under or alongside Mac OS X), or anything else BSD-flavored. Whether you're new to BSD or an old hand—even seasoned Linux folk can Learn a lot from their cousins—you will reach new levels of understanding and have a lot of fi-in along the way.

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

The Standard Unix Text Editor

OpenSSH, PuTTY, Tunnels, and Keys

Networking for Systems Administrators

Domesticating Your Badgers

The Complete Guide to FreeBSD

Machine Learning for Developers

Virtual private networks (VPNs) based on the Internet instead of the traditional leased lines offer organizations of all sizes the promise of a low-cost, secure electronic network. However, using the Internet to carry sensitive information can present serious privacy and security problems. By explaining how VPNs actually work, networking expert Jon Snader shows software engineers and network administrators how to use tunneling, authentication, and encryption to create safe, effective VPNs for any environment. Using an example-driven approach, VPNs Illustrated explores how tunnels and VPNs function by observing their behavior "on the wire." By learning to read and interpret various network traces, such as those produced by tcpdump, readers will be able to better understand and troubleshoot VPN and network behavior. Specific topics covered include: Block and stream symmetric ciphers, such as AES and RC4; and asymmetric ciphers, such as RSA and ElGamal Message authentication codes, including HMACs Tunneling technologies based on tunnel SSL protocol for building network-to-network VPNs SSH protocols as drop-in replacements for telnet, ftp, and the BSD r-commands Lightweight VPNs, including VTun, CIPE, tinc, and OpenVPN IPsec, including its Authentication Header (AH) protocol, Encapsulating Security Payload (ESP), and IKE (the key management protocol) Packed with details, the text can be used as a handbook describing the functions of the protocols and the message formats that they use. Source code is available for download, and an appendix covers publicly available software that can be used to build tunnels and analyze traffic flow. VPNs Illustrated gives you the knowledge of tunneling and VPN technology you need to understand existing VPN implementations and successfully create your own.

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.

A practical handbook that will help you bridge the gap between Windows and Linux to develop apps that leverage the best features across both ecosystems with seamless interoperability Key FeaturesConfigure and control WSL to suit your needs and preferencesDiscover tips for working seamlessly between Windows and WSL Linux distrosLearn how to work effectively with containers in WSL, as well as how to containerize your development environments with Visual Studio Code to isolate your dependenciesBook Description Windows Subsystem for Linux (WSL) allows you to run native Linux tools alongside traditional Windows applications. Whether you're developing applications across multiple operating systems or looking to add more tools to your Windows environment, WSL offers endless possibilities. You'll start by understanding what WSL is and learn how to install and configure WSL along with different Linux distros. Next, you'll learn techniques that allow you to work across both Windows and Linux environments. You'll discover how to install and customize the new Windows Terminal. We'll also show you how to work with code in WSL using Visual Studio Code (VS Code). In addition to this, you'll explore how to work with containers with Docker and Kubernetes, and how to containerize a development environment using VS Code. While Microsoft has announced support for GPU and GUI applications in an upcoming release of WSL, at the time of writing these features are either not available or only in early preview releases. This book focuses on the stable, released features of WSL and giving you a solid understanding of the amazing techniques that you can use with WSL today. By the end of this book, you'll be able to configure WSL and Windows Terminal to suit your preferences, and productively use Visual Studio Code for developing applications with WSL. What you will learnInstall and configure Windows Subsystem for Linux and Linux distrosAccess web applications running in Linux from WindowsInvoke Windows applications, file systems, and environment variables from bash in WSLCustomize the appearance and behavior of the Windows Terminal to suit your preferences and workflowsExplore various tips for enhancing the Visual Studio Code experience with WSLInstall and work with Docker and Kubernetes within Windows Subsystem for LinuxDiscover various productivity tips for working with Command-line tools in WSLWho this book is for This book is for developers who want to use Linux tools on Windows, including Windows-native programmers looking to ease into a Linux environment based on project requirements or Linux developers who've recently switched to Windows. This book is also for web developers working on open source projects with Linux-first tools such as Ruby or Python, or developers looking to switch between containers and development machines for testing apps. Prior programming or development experience and a basic understanding of running tasks in bash, PowerShell, or the Windows Command Prompt will be required.

SSH MasteryOpenSSH, PuTTY, Tunnels, and Keys

PGP & GPG

Designing, Producing and Launching Service Games

TLS Mastery: Tux Edition

DTrace

A Complete Introduction

This book covers not only practical aspects but also the underlying theoretical approaches. It also covers the fundamentals of rock mechanics. The book addresses not only students but also professionals who are interested to understand the underlying principles and methods and - possibly - to further develop them. Emphasis is given to the mechanical approach rather than to hardly tractable empirical statements. The text is concise and comprises a large list of citations.

Game design is changing. The emergence of service games on PC, mobile and console has created new expectations amongst consumers and requires new techniques from game makers. In The Pyramid of Game Design, Nicholas Lovell identifies and explains the frameworks and techniques you need to deliver fun, profitable games. Using examples of games ranging from modern free-to-play titles to the earliest arcade games, via PC strategy and traditional boxed titles, Lovell shows how game development has evolved, and provides game makers with the tools to evolve with it. Harness the Base, Retention and Superfan Layers to create a powerful Core Loop. Design the player Session to keep players playing while being respectful of their time. Accept that there are few fixed rules: just trade-offs with consequences. Adopt Agile and Lean techniques to "learn what you need you learn" quickly Use analytics, paired with design skills and player feedback, to improve the fun, engagement and profitability of your games. Adapt your marketing techniques to the reality of the service game era

Consider the ethics of game design in a rapidly changing world. Lovell shows how service games require all the skills of product game development, and more. He provides a toolset for game makers of all varieties to create fun, profitable games. Filled with practical advice, memorable anecdotes and a wealth of game knowledge, the Pyramid of Game Design is a must-read for all game developers.

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

“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!

EX200

Relayd & Httpd Mastery

Absolute FreeBSD, 2nd Edition

Using a Service Mesh to Connect, Secure, Control, and Observe

A Rational Approach to Tunnelling

Building, Defending, and Attacking Modern Computer Networks

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 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

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

Become the Writer you Want to Be! A hundred thousand gurus offer contradictory writing secrets. You must outline! You must free write! You must write at a standing desk with your feet in cold oatmeal! The gurus are all correct- and all wrong. In Domesticate Your Badgers: Become a Better Writer through Deliberate Practice, full-time author Michael W Lucas demonstrates how to build a personalized plan to transform yourself into the best author you can be. Writing is a set of skills, and deliberately stocking your tool chest makes each piece you write better than the last. Want to be a pro? Use the same techniques prog use. Stop flailing. Start learning. No badgers were harmed in the writing of this book. Contains no badger or badger by-products. Regulations on badger domestication vary by location.

Tarsnap Mastery

Sudo Mastery

SSH, The Secure Shell

Modsecurity Handbook

Pam Mastery

The Linux Command Line

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.

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.

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 techniquesBuild 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 WinRMUse offensive tools such as Metasploit, Mimikatz, Veil, Burp Suite, and John the RipperExploit networks starting from malware and initial intrusion to privilege escalation through password cracking and persistence mechanismsDefend 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)

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"

The Pyramid of Game Design

OpenSSH, PuTTY, Tunnels and Keys

Maximise productivity of your Windows 10 development machine with custom workflows and configurations

Red Hat RHCSA 8 Cert Guide

Tunnels, VPNs, and IPsec

CompTIA PenTest+ PT0-001 Cert Guide

People want to give you money for your art? Congratulations! Now What? After learning your art, you get to learn business. Business is nothing but a specific kind of thinking. Cash Flow for Creators helps you develop the mindset and tools for building a long-running creative business. · Create the Right Business · How Money Goes Through a Business · Balance Art, Business, and Life · Art as a Long Game · Building Fans · Measure Success, Avoid Failure · When to Spend Money · Go Full Time · When Cash Flow Goes Wrong Cash flow is a game. A game with simple rules. A game you can win, with the ultimate prize: a life doing what you love.

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! Every so often, men contact the author complaining that his books use both male and female pronouns. This special edition, using only male third person pronouns, is for those special people. As the market is so much smaller, it’s unfortunately priced higher. For each copy of the Manly McManface edition sold, the author will donate one dollar to his local chapter of Soroptimists International.

Your one-stop guide to becoming a Machine Learning expert. About This Book Learn to develop efficient and intelligent applications by leveraging the power of Machine Learning A highly practical guide explaining the concepts of problem solving in the easiest possible manner Implement Machine Learning in the most practical way Who This Book Is For This book will appeal to any developer who wants to know what Machine Learning is and is keen to use Machine Learning to make their day-to-day apps fast, high performing, and accurate. Any developer who wants to enter the field of Machine Learning can effectively use this book as an entry point. What You Will Learn Learn the math and mechanics of Machine Learning via a developer-friendly approach Get to grips with widely used Machine Learning algorithms/techniques and how to use them to solve real problems Get a feel for advanced concepts, using popular programming frameworks. Prepare yourself and other developers for working in the new ubiquitous field of Machine Learning Get an overview of the most well known and powerful tools, to solve computing problems using Machine Learning. Get an intuitive and down-to-earth introduction to current Machine Learning areas, and apply these concepts on interesting and cutting-edge problems. In Detail Most of us have heard about the term Machine Learning, but surprisingly the question frequently asked by developers across the globe is, “How do I get started in Machine Learning?”. One reason could be attributed to the vastness of the subject area because people often get overwhelmed by the abstractness of ML and terms such as regression, supervised learning, probability density function, and so on. This book is a systematic guide teaching you how to implement various Machine Learning techniques and their day-to-day application and development. You will start with the very basics of data and mathematical models in easy-to-follow language that you are familiar with; you will feel at home while implementing the examples. The book will introduce you to various libraries and frameworks used in the world of Machine Learning, and then, without wasting any time, you will get to the point and implement Regression, Clustering, classification, Neural networks, and more with fun examples. As you get to grips with the techniques, you’ll learn to implement those concepts to solve real-world scenarios for ML applications such as image analysis, Natural Language processing, and anomaly detections of time series data. By the end of the book, you will have learned various ML techniques to develop more efficient and intelligent applications. Style and approach This book gives you a glimpse of Machine Learning Models and the application of models at scale using clustering, classification, regression and reinforcement learning with fun examples. Hands-on examples will be presented to understand the power of problem solving with Machine Learning and Advanced architectures, software installation, and configuration.

“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!

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VPNs Illustrated

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Cyber Operations

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!

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!

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!

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 installsAnd more!Don’t just configure your storage. Understand it. Get FreeBSD Mastery: Storage Essentials today!

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Master building and integrating secure private networks using OpenVPN About This Book Discover how to configure and set up a secure OpenVPN Enhance user experience by using multiple authentication methods Delve into better reporting, monitoring, logging, and control with OpenVPN Who This Book Is For If you are familiar with TCP/IP networking and general system administration, then this book is ideal for you. Some knowledge and understanding of core elements and applications related to Virtual Private Networking is assumed. What You Will Learn Identify different VPN protocols (IPSec, PPTP, OpenVPN) Build your own PKI and manage certificates Deploy your VPN on various devices like PCs, mobile phones, tablets, and more Differentiate between the routed and bridged network Enhance your VPN with monitoring and logging Authenticate against third-party databases like LDAP or the Unix password file Troubleshoot an OpenVPN setup that is not performing correctly In Detail Security on the internet is increasingly vital to both businesses and individuals. Encrypting network traffic using Virtual Private Networks is one method to enhance security. The internet, corporate, and “ free internet ” networks grow more hostile every day. OpenVPN, the most widely used open source VPN package, allows you to create a secure network across these systems, keeping your private data secure. The main advantage of using OpenVPN is its portability, which allows it to be embedded into several systems. This book is an advanced guide that will help you build secure Virtual Private Networks using OpenVPN. You will begin your journey with an exploration of OpenVPN, while discussing its modes of operation, its clients, its secret keys, and their format types. You will explore PKI: its setting up and working, PAM authentication, and MTU troubleshooting. Next, client-server mode is discussed, the most commonly used deployment model, and you will learn about the two modes of operation using "tun" and "tap" devices. The book then progresses to more advanced concepts, such as deployment scenarios in tun devices which will include integration with back-end authentication, and securing your OpenVPN server using iptables, scripting, plugins, and using OpenVPN on mobile devices and networks. Finally, you will discover the strengths and weaknesses of the current OpenVPN implementation, understand the future directions of OpenVPN, and delve into the troubleshooting techniques for OpenVPN. By the end of the book, you will be able to build secure private networks across the internet and hostile networks with confidence. Style and approach An easy-to-follow yet comprehensive guide to building secure Virtual Private Networks using OpenVPN. A progressively complex VPN design is developed with the help of examples. More advanced topics are covered in each chapter, with subjects grouped according to their complexity, as well as their utility.

You did it. You successfully transformed your application into a microservices architecture. But now that you ' re running services across different environments—public to public, private to public, virtual machine to container—your cloud native software is beginning to encounter reliability issues. How do you stay on top of this ever-increasing complexity? With the Istio service mesh, you ' ll be able to manage traffic, control access, monitor, report, get telemetry data, manage quota, trace, and more with resilience across your microservice. In this book, Lee Calcote and Zack Butcher explain why your services need a service mesh and demonstrate step-by-step how Istio fits into the life cycle of a distributed application. You ' ll learn about the tools and APIs for enabling and managing many of the features found in Istio. Explore the observability challenges Istio addresses Use request routing, traffic shifting, fault injection, and other features essential to running a solid service mesh Generate and collect telemetry information Try different deployment patterns, including A/B, blue/green, and canary Get examples of how to develop and deploy real-world applications with Istio support

Abdul Alhazred's infamously rumored Networknomicon, or SNMP Mastery, has long been blamed for the Spanish Inquisition, the Second World War, and Cleveland. While nuclear "testing" was thought to have eradicated all copies of the manuscript, one tattered survivor was retrieved from the Miskatonic University Library of Computer Science.

This is the eBook version of the print title. Learn, prepare, and practice for Red Hat RHCSA 8 (EX200) exam success with this Cert Guide from Pearson IT Certification, a leader in IT Certification learning. Master Red Hat RHCSA 8 EX200 exam topics Assess your knowledge with chapter-ending quizzes Review key concepts with exam-preparation tasks Practice with four unique practice tests Learn from two full hours of video training from the author ' s Red Hat Certified System Administrator (RHCSA) Complete Video Course, 3rd Edition. Red Hat RHCSA 8 Cert Guide is a best-of-breed exam study guide. Leading Linux consultant, author, and instructor Sander van Vugt 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 enable you to succeed on the exam the first time, including Basic system management: Installation, tools, file management, text files, RHEL8 connections, user/group management, permissions, and network configuration Operating running systems: Managing software, processes, storage, and advanced storage; working with systemd; scheduling tasks; and configuring logging Advanced system administration: Managing the kernel and boot procedures, essential troubleshooting, bash shell scripting Managing network services: Configuring SSH, firewalls, and time services; managing Apache HTTP services and SE Linux; and accessing network storage

FreeBSD Mastery: Storage Essentials

Dynamic Tracing in Oracle Solaris, Mac OS X, and FreeBSD

Email for the Practical Paranoid

BSD Hacks

OpenSSH, PuTTY, Certificates, Tunnels, and Keys