Linux Security And Hardening The Practical Security

Using Security Enhanced Linux
Mastering Windows Security and Hardening
Security Tools & Techniques
Linux Security and Hardening
Learn Linux in 5 Days
Linux Security and Hardening Essential Training
Linux Server Security
Linux Administration Cookbook
The Practical Security Guide
Advanced techniques to effectively manage, control, and monitor Linux systems and services
Linux Administration
Security Power Tools
Practical Linux Security Cookbook
Linux Security and Hardening Essential Training
Secure and protect your Windows environment from intruders, malware attacks, and other cyber threats
Mastering Linux Security and Hardening
Server Security from TLS to Tor
Mastering Linux Security and Hardening
Secure your Linux server and protect it from intruders, malware attacks, and other external threats
Implement Mandatory Access Control to Secure Applications, Users, and Information Flows on Linux
The Linux Operating System and Command Line Guide for Linux Administrators
Mastering Linux System Administration
Leverage Ansible 2 to automate complex security tasks like application security, network security, and malware analysis
SELinux System Administration - Third Edition
Digital Forensics Field Guides
SELinux by Example
Hardening Linux
Security Automation with Ansible 2
Mastering Linux Security and Hardening
Hardening Network Security
Insightful recipes to work with system administration tasks on Linux
Building Secure Servers with Linux
Hack Proofing Linux
Protect your Linux systems from intruders, malware attacks, and other cyber threats, 2nd Edition
Linux Service Management Made Easy with systemd
Linux Security Fundamentals
Secure Messaging Scenarios with WebSphere MQ
Mastering Defensive Security
Mastering Linux Security and Hardening
Effective techniques to secure your Windows, Linux, IoT, and cloud infrastructure

RANDOLPH COSTA

Using Security Enhanced Linux Mastering Linux Security and HardeningProtect your Linux systems from intruders, malware attacks, and other cyber threats, 2nd Edition
*Imparts good security doctrine, methodology, and strategies *Each application-focused chapter will be able to be used as a stand-alone HOW-TO for that particular application. *Offers users a selection of resources (websites, mailing lists, and books) to further their knowledge.
Mastering Windows Security and Hardening Pearson IT Certification
Over 100 recipes to get up and running with the modern Linux administration ecosystem Key Features Understand and implement the core system administration tasks in Linux Discover tools and techniques to troubleshoot your Linux system Maintain a healthy system with good security and backup practices Book Description Linux is one of the most widely used operating systems among system administrators,and even modern application and server development is heavily reliant on the Linux platform. The Linux Administration Cookbook is your go-to guide to get started on your Linux journey. It will help you understand what that strange little server is doing in the corner of your office, what the mysterious virtual machine languishing in Azure is crunching through, what that circuit-board-like thing is doing under your office TV, and why the LEDs on it are blinking rapidly. This book will get you started with administering Linux, giving you the knowledge and tools you need to troubleshoot day-to-day problems, ranging from a Raspberry Pi to a server in Azure, while giving you a good understanding of the fundamentals of how GNU/Linux works. Through the course of the book, you'll install and configure a system, while the author regales you with errors and anecdotes from his vast experience as a data center hardware engineer, systems administrator, and DevOps consultant. By the end of the book, you will have gained practical knowledge of Linux, which will serve as a bedrock for learning Linux administration and aid you in your Linux journey. What you will learn Install and manage a Linux server, both locally and in the cloud Understand how to perform administration across all Linux distros Work through evolving

concepts such as IaaS versus PaaS, containers, and automation Explore security and configuration best practices Troubleshoot your system if something goes wrong Discover and mitigate hardware issues, such as faulty memory and failing drives Who this book is for If you are a system engineer or system administrator with basic experience of working with Linux, this book is for you.

Security Tools & Techniques IBM Redbooks

“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

Linux Security and Hardening Packt Publishing Ltd

Automate security-related tasks in a structured, modular fashion using the best open source automation tool available About This Book Leverage the agentless, push-based power of Ansible 2 to automate security tasks Learn to write playbooks that apply security to any part of your system This recipe-based guide will teach you to use Ansible 2 for various use cases such as fraud detection, network security, governance, and more Who This Book Is For If you are a system administrator or a DevOps engineer with responsibility for finding loop holes in your system or application, then this book is for you. It's also useful for security consultants looking to automate their infrastructure's security model. What You Will Learn Use Ansible playbooks, roles, modules, and templating to build generic, testable playbooks Manage Linux and Windows hosts remotely in a repeatable and predictable manner See how to perform security patch management, and security hardening with scheduling and automation Set up AWS Lambda for a serverless automated defense Run continuous security scans against your hosts and automatically fix and harden the gaps Extend Ansible to write your custom modules and use them as part of your already existing security automation programs Perform automation security audit checks for applications using Ansible Manage secrets in Ansible using Ansible Vault In Detail Security automation is one of the most interesting skills to have nowadays. Ansible allows you to write automation procedures once and use them across your entire infrastructure. This book will teach you the best way to use Ansible for seemingly complex tasks by using the various building blocks available and creating solutions that are easy to teach others, store for later, perform version control on, and repeat. We'll start by covering various popular modules and writing simple playbooks to showcase those modules. You'll see how this can be applied over a variety of platforms and operating systems, whether they are Windows/Linux bare metal servers or containers on a cloud platform. Once the bare bones automation is in place, you'll learn how to leverage tools such as Ansible Tower or even Jenkins to create scheduled repeatable processes around security patching, security hardening, compliance reports, monitoring of systems, and so on. Moving on, you'll delve into useful security automation techniques and approaches, and learn how to extend Ansible for enhanced security. While on the way, we will tackle topics like how to manage secrets, how to manage all the playbooks that we will create and how to enable collaboration using Ansible Galaxy. In the final stretch, we'll tackle how to extend the modules of Ansible for our use, and do all the previous tasks in a programmatic manner to get even more powerful automation frameworks and rigs. Style and approach This comprehensive guide will teach you to manage Linux and Windows hosts remotely in a repeatable and predictable manner. The book takes an in-depth approach and helps you understand how to set up complicated stacks of software with codified and easy-to-share best practices.

Learn Linux in 5 Days Packt Publishing Ltd

Provides steps to ensure the security of Windows systems, covering such topics as passwords, authentication, network infastructure, Windows directory information, application access, PKI, LAN communications, and security policies.

Linux Security and Hardening Essential Training Packt Publishing Ltd

Implement Industrial-Strength Security on Any Linux Server In an age of mass surveillance, when advanced cyberwarfare weapons rapidly migrate into every hacker’s toolkit, you can’t rely on outdated security methods–especially if you’re responsible for Internet-facing services. In Linux® Hardening in Hostile Networks, Kyle Rankin helps you to implement modern safeguards that provide maximum impact with minimum effort and to strip away old techniques that are no longer worth your time. Rankin provides clear, concise guidance on modern workstation, server, and network hardening, and explains how to harden specific services, such as web servers, email, DNS, and databases. Along the way, he demystifies technologies once viewed as too complex or mysterious but now essential to mainstream Linux security. He also includes a full chapter on effective incident response that both DevOps and SecOps can use to write their own incident response plan. Each chapter begins with techniques any sysadmin can use quickly to protect against entry-level hackers and presents intermediate and advanced techniques to safeguard against sophisticated and knowledgeable attackers, perhaps even state actors. Throughout, you learn what each technique does, how it works, what it does and doesn’t protect against, and whether it would be useful in your environment. Apply core security techniques including 2FA and strong passwords Protect admin workstations via lock screens, disk encryption, BIOS passwords, and other methods Use the security-focused Tails distribution as a quick path to a hardened workstation Compartmentalize workstation tasks into VMs with varying levels of trust Harden servers with SSH, use apparmor and sudo to limit the damage attackers can do, and set up remote syslog servers to track their actions Establish secure VPNs with OpenVPN, and leverage SSH to tunnel traffic when VPNs can’t be used Configure a software load balancer to terminate SSL/TLS connections and initiate new ones downstream Set up standalone Tor services and hidden Tor services and

relays Secure Apache and Nginx web servers, and take full advantage of HTTPS Perform advanced web server hardening with HTTPS forward secrecy and ModSecurity web application firewalls Strengthen email security with SMTP relay authentication, SMTPS, SPF records, DKIM, and DMARC Harden DNS servers, deter their use in DDoS attacks, and fully implement DNSSEC Systematically protect databases via network access control, TLS traffic encryption, and encrypted data storage Respond to a compromised server, collect evidence, and prevent future attacks Register your product at informit.com/register for convenient access to downloads, updates, and corrections as they become available.

Linux Server Security Packt Publishing Ltd

"This course will not only teach you the security concepts and guidelines that will keep your Linux servers safe, it will walk you through hardening measures step-by-step. By the end of this course, you will be able to tighten up the security on any Linux system. You'll learn the security weaknesses of the Linux operating system and will be given step-by-step instructions on how to protect those weaknesses. You'll even learn some security concepts that apply to information security as a whole while focusing on Linux-specific issues that require special consideration. What you learn in this course applies to any Linux environment or distribution including Ubuntu, Debian, Linux Mint, RedHat, CentOS, Fedora, OpenSUSE, Slackware, Kali Linux, and more."--Resource description page.

Linux Administration Cookbook Prentice Hall Professional

"This course has extensive coverage of techniques that will help prevent attackers from breaching your system, by building a much more secure Linux environment. You will learn various security techniques such as SSH hardening, network service detection, setting up firewalls, encrypting file systems, protecting user accounts, authentication processes, and so on. Moving forward, you will also develop hands-on skills with advanced Linux permissions, access control, special modes, and more. Lastly, this course will also cover best practices and troubleshooting techniques to get your work done efficiently. By the end of this course, you will be confident in delivering a system that will be much harder to compromise."--Resource description page.

The Practical Security Guide Addison-Wesley

Mastering Linux Security and HardeningProtect your Linux systems from intruders, malware attacks, and other cyber threats, 2nd EditionPackt Publishing Ltd

Advanced techniques to effectively manage, control, and monitor Linux systems and services Createspace Independent Publishing Platform

Enhance file system security and learn about network attack, security tools and different versions of Linux build. Key Features Hands-on recipes to create and administer a secure Linux system Enhance file system security and local and remote user authentication Use various security tools and different versions of Linux for different tasks Book Description Over the last few years, system security has gained a lot of momentum and software professionals are focusing heavily on it. Linux is often treated as a highly secure operating system. However, the reality is that Linux has its share of security flaws, and these security flaws allow attackers to get into your system and modify or even destroy your important data. But there’s no need to panic, since there are various mechanisms by which these flaws can be removed, and this book will help you learn about different types of Linux security to create a more secure Linux system. With a step-by-step recipe approach, the book starts by introducing you to various threats to Linux systems. Then, this book will walk you through customizing the Linux kernel and securing local files. Next, you will move on to managing user authentication both locally and remotely and mitigating network attacks. Later, you will learn about application security and kernel vulnerabilities. You will also learn about patching Bash vulnerability, packet filtering, handling incidents, and monitoring system logs. Finally, you will learn about auditing using system services and performing vulnerability scanning on Linux. By the end of this book, you will be able to secure your Linux systems and create a robust environment. What you will learn Learn about vulnerabilities and exploits in relation to Linux systems Configure and build a secure kernel and test it Learn about file permissions and how to securely modify files Authenticate users remotely and securely copy files on remote systems Review different network security methods and tools Perform vulnerability scanning on Linux machines using tools Learn about malware scanning and read through logs Who this book is for This book is intended for all those Linux users who already have knowledge of Linux file systems and administration. You should be familiar with basic Linux commands. Understanding information security and its risks to a Linux system is also helpful in understanding the recipes more easily.

Linux Administration John Wiley & Sons

Includes one year of FREE access after activation to the online test bank and study tools: Custom practice exam 100 electronic flashcards Searchable key term glossary The Sybex™ method for teaching Linux® security concepts Understanding Linux Security is essential for administration professionals. Linux Security Fundamentals covers all the IT security basics to help active and aspiring admins respond successfully to the modern threat landscape. You'll improve your ability to combat major security threats against computer systems, networks, and services. You'll discover how to prevent and mitigate attacks against personal devices and how to encrypt secure data transfers through networks, storage devices, or the cloud. Linux Security Fundamentals teaches: Using Digital Resources Responsibly What Vulnerabilities and Threats Are Controlling Access to Your Assets Controlling Network Connections Encrypting Data, Whether at Rest or Moving Risk Assessment Configuring System Backups and Monitoring Resource Isolation Design Patterns Interactive learning environment Take your skills to the next level with Sybex's superior interactive online study tools. To access our learning environment, simply visit www.wiley.com/go/sybextestprep, register your book to receive your unique PIN, and instantly gain one year of FREE access to: Interactive test bank with a practice exam to help you identify areas where you need to expand your knowledge 100 electronic flashcards to reinforce what you've learned Comprehensive glossary in PDF format gives you instant access to key terms you use in your job

Security Power Tools Packt Publishing Ltd

An informative handbook for network administrators and professionals who use Linux offers practical guidelines on how to test, hack, and find security holes and secure them, explaining how to assess one's system, shut down unnecessary services and access, install filters and firewalls, eliminate unnecessary software, enhance authentication and user identity protocols, monitor network systems, and other important topics. Original. (Intermediate)

Practical Linux Security Cookbook McGraw Hill Professional

A comprehensive guide to mastering the art of preventing your Linux system from getting compromised. Key Features Leverage this guide to confidently deliver a system that reduces the risk of being hacked Perform a number of advanced Linux security techniques such as network service detection, user authentication, controlling special permissions, encrypting file

systems, and much more Master the art of securing a Linux environment with this end-to-end practical guide Book Description This book has extensive coverage of techniques that will help prevent attackers from breaching your system, by building a much more secure Linux environment. You will learn various security techniques such as SSH hardening, network service detection, setting up firewalls, encrypting file systems, protecting user accounts, authentication processes, and so on. Moving forward, you will also develop hands-on skills with advanced Linux permissions, access control, special modes, and more. Lastly, this book will also cover best practices and troubleshooting techniques to get your work done efficiently. By the end of this book, you will be confident in delivering a system that will be much harder to compromise. What you will learn Use various techniques to prevent intruders from accessing sensitive data Prevent intruders from planting malware, and detect whether malware has been planted Prevent insiders from accessing data that they aren’t authorized to access Do quick checks to see whether a computer is running network services that it doesn’t need to run Learn security techniques that are common to all Linux distros, and some that are distro-specific Who this book is for If you are a systems administrator or a network engineer interested in making your Linux environment more secure, then this book is for you. Security consultants wanting to enhance their Linux security skills will also benefit from this book. Prior knowledge of Linux is mandatory.

Linux Security and Hardening Essential Training "O'Reilly Media, Inc."

A comprehensive guide to mastering the art of preventing your Linux system from getting compromised. Key Features Leverage this guide to confidently deliver a system that reduces the risk of being hacked Perform a number of advanced Linux security techniques such as network service detection, user authentication, controlling special permissions, encrypting file systems, and much more Master the art of securing a Linux environment with this end-to-end practical guide Book Description This book has extensive coverage of techniques that will help prevent attackers from breaching your system, by building a much more secure Linux environment. You will learn various security techniques such as SSH hardening, network service detection, setting up firewalls, encrypting file systems, protecting user accounts, authentication processes, and so on. Moving forward, you will also develop hands-on skills with advanced Linux permissions, access control, special modes, and more. Lastly, this book will also cover best practices and troubleshooting techniques to get your work done efficiently. By the end of this book, you will be confident in delivering a system that will be much harder to compromise. What you will learn Use various techniques to prevent intruders from accessing sensitive data Prevent intruders from planting malware, and detect whether malware has been planted Prevent insiders from accessing data that they aren't authorized to access Do quick checks to see whether a computer is running network services that it doesn't need to run Learn security techniques that are common to all Linux distros, and some that are distro-specific Who this book is for If you are a systems administrator or a network engineer interested in making your Linux environment more secure, then this book is for you. Security consultants wanting to enhance their Linux security skills will also benefit from this book. Prior knowledge of Linux is mandatory.

Secure and protect your Windows environment from intruders, malware attacks, and other cyber threats Microsoft Press

This is the eBook of the printed book and may not include any media, website access codes, or print supplements that may come packaged with the bound book. The Exam Ref is the official study guide for Microsoft certification exams. Featuring concise coverage of the skills measured by the exam, challenging Thought Experiments, and pointers to more in-depth material for the candidate needing additional study, exam candidates get professional-level preparation for the exam. The Exam Ref helps candidates determine their readiness for the exam, and provides Exam Tips to help maximize their performance on the exam. The organization of the material mirrors the skills measured by the exam as presented on the certification exam webpage.

Mastering Linux Security and Hardening Elsevier

Implement information security effectively as per your organization's needs. About This Book Learn to build your own information security framework, the best fit for your organization Build on the concepts of threat modeling, incidence response, and security analysis Practical use cases and best practices for information security Who This Book Is For This book is for security analysts and professionals who deal with security mechanisms in an organization. If you are looking for an end to end guide on information security and risk analysis with no prior knowledge of this domain, then this book is for you. What You Will Learn Develop your own information security framework Build your incident response mechanism Discover cloud security considerations Get to know the system development life cycle Get your security operation center up and running Know the various security testing types Balance security as per your business needs Implement information security best practices In Detail Having an information security mechanism is one of the most crucial factors for any organization. Important assets of organization demand a proper risk management and threat model for security, and so information security concepts are gaining a lot of traction. This book starts with the concept of information security and shows you why it's important. It then moves on to modules such as threat modeling, risk management, and mitigation. It also covers the concepts of incident response systems, information rights management, and more. Moving on, it guides you to build your own information security framework as the best fit for your organization. Toward the end, you'll discover some best practices that can be implemented to make your security framework strong. By the end of this book, you will be well-versed with all the factors involved in information security, which will help you build a security framework that is a perfect fit your organization's requirements. Style and approach This book takes a practical approach, walking you through information security fundamentals, along with information security best practices.

Server Security from TLS to Tor Addison-Wesley Professional

A comprehensive guide for teaching system administrators, developers, and security professionals how to create their own systemd units and maintain system security Key Features Get well-versed with maintaining and troubleshooting systemd services Learn to create, modify, and reload service files and use systemd utilities Use cgroups to control resource usage and enhance security Book Description systemd is a new type of Linux init system for today's high-performance, multi-CPU, and multi-core hardware that is now used on all major enterprise-grade Linux distros. The main goal of this Linux systemd book is to help you get an in-depth understanding of systemd to set up your servers securely and efficiently. This book starts by explaining systemd management, which will help you manage your servers effectively. You'll then learn how to edit and create your own systemd units, which will be particularly helpful if you need to create custom services or timers and add features or security to an existing service. Next, you'll understand how to analyze and fix boot-up challenges and set system parameters. Later, you'll come across cgroups, that'll help you control system

resource usage for both processes and users. The book also shows you how cgroups are structured, the differences between cgroups Version 1 and 2, and how to set resource limits on both. Finally, you'll learn about the systemd way of performing time-keeping, networking, logging, and login management. You'll discover how to configure servers accurately and gather system information to analyze system security and performance. By the end of this Linux book, you'll be able to efficiently manage all aspects of a server running the systemd init system. What you will learn Use basic systemd utilities to manage a system Create and edit your own systemd units Create services for Podman-Docker containers Enhance system security by adding security-related parameters Find important information with journald Analyze boot-up problems Configure system settings with systemd utilities Who this book is for This book is for Linux administrators who want to learn more about maintaining and troubleshooting Linux servers. Aspiring administrators studying for a Linux certification exam and developers looking to learn how to create systemd unit files will also find this book useful. Additionally, this book will be helpful for security administrators who want to understand the security settings that can be used in systemd units and how to control resource usage with cgroups. Working knowledge of basic Linux commands is assumed.

Mastering Linux Security and Hardening McGraw Hill Professional

What if you could sit down with some of the most talented security engineers in the world and ask any network security question you wanted? Security Power Tools lets you do exactly that! Members of Juniper Networks' Security Engineering team and a few guest experts reveal how to use, tweak, and push the most popular network security applications, utilities, and tools available using Windows, Linux, Mac OS X, and Unix platforms. Designed to be browsed, Security Power Tools offers you multiple approaches to network security via 23 cross-referenced chapters that review the best security tools on the planet for both black hat techniques and white hat defense tactics. It's a must-have reference for network administrators, engineers and consultants with tips, tricks, and how-to advice for an assortment of freeware and commercial tools, ranging from intermediate level command-line operations to advanced programming of self-hiding exploits. Security Power Tools details best practices for: Reconnaissance -- including tools for network scanning such as nmap; vulnerability scanning tools for Windows and Linux; LAN reconnaissance; tools to help with wireless reconnaissance; and custom packet generation Penetration -- such as the Metasploit framework for automated penetration of remote computers; tools to find wireless networks; exploitation framework applications; and tricks and tools to manipulate shellcodes Control -- including the configuration of several tools for use as backdoors; and a review of known rootkits for Windows and Linux Defense -- including host-based firewalls; host hardening for Windows and Linux networks; communication security with ssh; email security and anti-malware; and device security testing Monitoring -- such as tools to capture, and analyze packets; network monitoring with Honeyd and snort; and host monitoring of production servers for file changes Discovery -- including The Forensic Toolkit, SysInternals and other popular forensic tools; application fuzzer and fuzzing techniques; and the art of binary reverse engineering using tools like Interactive Disassembler and Ollydbg A practical and timely network security ethics chapter written by a Stanford University professor of law completes the suite of topics and makes this book a goldmine of security information. Save yourself a ton of headaches and be prepared for any network security dilemma with Security Power Tools.

Secure your Linux server and protect it from intruders, malware attacks, and other external threats CreateSpace

SELinux: Bring World-Class Security to Any Linux Environment! SELinux offers Linux/UNIX integrators, administrators, and developers a state-of-the-art platform for building and maintaining highly secure solutions. Now that SELinux is included in the Linux 2.6 kernel—and delivered by default in Fedora Core, Red Hat Enterprise Linux, and other major distributions—it’s easier than ever to take advantage of its benefits. SELinux by Example is the first complete, hands-on guide to using SELinux in production environments. Authored by three leading SELinux researchers and developers, it illuminates every facet of working with SELinux, from its architecture and security object model to its policy language. The book thoroughly explains SELinux sample policies— including the powerful new Reference Policy—showing how to quickly adapt them to your unique environment. It also contains a comprehensive SELinux policy language reference and covers exciting new features in Fedora Core 5 and the upcoming Red Hat Enterprise Linux version 5. • Thoroughly understand SELinux’s access control and security mechanisms • Use SELinux to construct secure systems from the ground up • Gain fine-grained control over kernel resources • Write policy statements for type enforcement, roles, users, and constraints • Use optional multilevel security to enforce information classification and manage users with diverse clearances • Create conditional policies that can be changed on-the-fly • Define, manage, and maintain SELinux security policies • Develop and write new SELinux security policy modules • Leverage emerging SELinux technologies to gain even greater flexibility • Effectively administer any SELinux system

Implement Mandatory Access Control to Secure Applications, Users, and Information Flows on Linux IBM Redbooks

A comprehensive guide to securing your Linux system against cyberattacks and intruders Key Features Deliver a system that reduces the risk of being hacked Explore a variety of advanced Linux security techniques with the help of hands-on labs Master the art of securing a Linux environment with this end-to-end practical guide Book Description From creating networks and servers to automating the entire working environment, Linux has been extremely popular with system administrators for the last couple of decades. However, security has always been a major concern. With limited resources available in the Linux security domain, this book will be an invaluable guide in helping you get your Linux systems properly secured. Complete with in-depth explanations of essential concepts, practical examples, and self-assessment questions, this book begins by helping you set up a practice lab environment and takes you through the core functionalities of securing Linux. You'll practice various Linux hardening techniques and advance to setting up a locked-down Linux server. As you progress, you will also learn how to create user accounts with appropriate privilege levels, protect sensitive data by setting permissions and encryption, and configure a firewall. The book will help you set up mandatory access control, system auditing, security profiles, and kernel hardening, and finally cover best practices and troubleshooting techniques to secure your Linux environment efficiently. By the end of this Linux security book, you will be able to confidently set up a Linux server that will be much harder for malicious actors to compromise. What you will learn Create locked-down user accounts with strong passwords Configure firewalls with iptables, UFW, nftables, and firewalld Protect your data with different encryption technologies Harden the secure shell service to prevent security break-ins Use mandatory access control to protect against system exploits Harden kernel parameters and set up a kernel-level auditing system Apply OpenSCAP security profiles and set up intrusion detection Configure securely the GRUB 2 bootloader and BIOS/UEFI Who this book is for This book

is for Linux administrators, system administrators, and network engineers interested in securing moderate to complex Linux environments. Security consultants looking to enhance their Linux security skills will also find this book useful. Working experience with the Linux command line and package management is...

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