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Security Strategies In Linux Platforms And Applications

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

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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

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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

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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

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easily.

Kali Linux Network Scanning Cookbook is intended for information security professionals and casual security enthusiasts alike. It will provide the foundational principles for the novice reader but will also introduce scripting techniques and in-depth analysis for the more advanced audience. Whether you are brand new to Kali Linux or a seasoned veteran, this book will aid in both understanding and ultimately mastering many of the most powerful and useful scanning techniques in the industry. It is assumed that the reader has some basic security testing experience.

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Build a resilient network and prevent advanced cyber attacks and breaches Key Features Explore modern cybersecurity techniques to protect your networks from ever-evolving cyber threats Prevent cyber attacks by using robust cybersecurity strategies Unlock the secrets of network security Book Description With advanced cyber attacks severely impacting industry giants and the constantly evolving threat landscape, organizations are adopting complex systems to maintain robust and secure environments. Network Security Strategies will help you get well-versed with the

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tools and techniques required to protect any network environment against modern cyber threats. You'll understand how to identify security vulnerabilities across the network and how to effectively use a variety of network security techniques and platforms. Next, the book will show you how to design a robust network that provides top-notch security to protect against traditional and new evolving attacks. With the help of detailed solutions and explanations, you'll be able to monitor networks skillfully and identify potential risks. Finally, the book will cover topics relating to thought leadership and the management aspects of network security. By

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the end of this network security book, you'll be well-versed in defending your network from threats and be able to consistently maintain operational efficiency, security, and privacy in your environment. What you will learn Understand network security essentials, including concepts, mechanisms, and solutions to implement secure networks Get to grips with setting up and threat monitoring cloud and wireless networks Defend your network against emerging cyber threats in 2020 Discover tools, frameworks, and best practices for network penetration testing Understand digital forensics to enhance your network security skills Adopt a

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proactive approach to stay ahead in network security

Who this book is for This book is for anyone looking to explore information security, privacy, malware, and cyber threats. Security experts who want to enhance their skill set will also find this book useful.

A prior understanding of cyber threats and information security will help you understand the key concepts covered in the book more effectively.

Virtualization for Security

Effective techniques to secure your Windows, Linux, IoT, and cloud infrastructure

Protect your network and enterprise against advanced cybersecurity attacks and threats

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*Including Sandboxing, Disaster Recovery, High Availability, Forensic Analysis, and Honeypotting
Understanding Incident Detection and Response
Advanced Persistent Security*

Provides advice on ways to ensure network security, covering such topics as DNS, Apache web server, OpenLDAP, email encryption, Cyrus IMAP service, and FTP server.

**PART OF THE NEW JONES & BARTLETT
LEARNING INFORMATION SYSTEMS SECURITY
& ASSURANCE SERIES Fully revised and
updated with the latest data from the field,**

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Network Security, Firewalls, and VPNs, Second Edition provides a unique, in-depth look at the major business challenges and threats that are introduced when an organization's network is connected to the public Internet. Written by an industry expert, this book provides a comprehensive explanation of network security basics, including how hackers access online networks and the use of Firewalls and VPNs to provide security countermeasures. Using examples and exercises, this book incorporates hands-on activities to prepare the reader to

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disarm threats and prepare for emerging technologies and future attacks. Key Features:

- Introduces the basics of network security exploring the details of firewall security and how VPNs operate**
- Illustrates how to plan proper network security to combat hackers and outside threats**
- Discusses firewall configuration and deployment and managing firewall security**
- Identifies how to secure local and internet communications with a VPN**

Instructor Materials for Network Security, Firewalls, VPNs include:

PowerPoint Lecture Slides Exam Questions Case

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Scenarios/Handouts About the Series This book is part of the Information Systems Security and Assurance Series from Jones and Bartlett Learning. Designed for courses and curriculums in IT Security, Cybersecurity, Information Assurance, and Information Systems Security, this series features a comprehensive, consistent treatment of the most current thinking and trends in this critical subject area. These titles deliver fundamental information-security principles packed with real-world applications and examples. Authored by Certified Information

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Systems Security Professionals (CISSPs), they deliver comprehensive information on all aspects of information security. Reviewed word for word by leading technical experts in the field, these books are not just current, but forward-thinking putting you in the position to solve the cybersecurity challenges not just of today, but of tomorrow, as well."

This book helps people find sensitive information on the Web. Google is one of the 5 most popular sites on the internet with more than 380 million unique users per month

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(Nielsen/NetRatings 8/05). But, Google's search capabilities are so powerful, they sometimes discover content that no one ever intended to be publicly available on the Web including: social security numbers, credit card numbers, trade secrets, and federally classified documents. Google Hacking for Penetration Testers Volume 2 shows the art of manipulating Google used by security professionals and system administrators to find this sensitive information and "self-police their own organizations. Readers will learn how Google Maps and Google

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Earth provide pinpoint military accuracy, see how bad guys can manipulate Google to create super worms, and see how they can "mash up" Google with MySpace, LinkedIn, and more for passive reconaissance. • Learn Google Searching Basics Explore Google's Web-based Interface, build Google queries, and work with Google URLs. • Use Advanced Operators to Perform Advanced Queries Combine advanced operators and learn about colliding operators and bad search-fu. • Learn the Ways of the Google Hacker See how to use caches for

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anonymity and review directory listings and traversal techniques. • Review Document Grinding and Database Digging See the ways to use Google to locate documents and then search within the documents to locate information. • Understand Google's Part in an Information Collection Framework Learn the principles of automating searches and the applications of data mining. • Locate Exploits and Finding Targets Locate exploit code and then vulnerable targets. • See Ten Simple Security Searches Learn a few searches that give good results just

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about every time and are good for a security assessment. • Track Down Web Servers Locate and profile web servers, login portals, network hardware and utilities. • See How Bad Guys Troll for Data Find ways to search for usernames, passwords, credit card numbers, social security numbers, and other juicy information. • Hack Google Services Learn more about the AJAX Search API, Calendar, Blogger, Blog Search, and more.

Dig deep into the Windows auditing subsystem to monitor for malicious activities and enhance

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Windows system security Written by a former Microsoft security program manager, DEFCON "Forensics CTF" village author and organizer, and CISSP, this book digs deep into the Windows security auditing subsystem to help you understand the operating system's event logging patterns for operations and changes performed within the system. Expert guidance brings you up to speed on Windows auditing, logging, and event systems to help you exploit the full capabilities of these powerful components. Scenario-based instruction

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provides clear illustration of how these events unfold in the real world. From security monitoring and event patterns to deep technical details about the Windows auditing subsystem and components, this book provides detailed information on security events generated by the operating system for many common operations such as user account authentication, Active Directory object modifications, local security policy changes, and other activities. This book is based on the author's experience and the results of his research into Microsoft Windows

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security monitoring and anomaly detection. It presents the most common scenarios people should be aware of to check for any potentially suspicious activity. Learn to: Implement the Security Logging and Monitoring policy Dig into the Windows security auditing subsystem Understand the most common monitoring event patterns related to operations and changes in the Microsoft Windows operating system About the Author Andrei Miroshnikov is a former security program manager with Microsoft. He is an organizer and author for the DEFCON security

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conference "Forensics CTF" village and has been a speaker at Microsoft's Bluehat security conference. In addition, Andrei is an author of the "Windows 10 and Windows Server 2016 Security Auditing and Monitoring Reference" and multiple internal Microsoft security training documents. Among his many professional qualifications, he has earned the (ISC)2 CISSP and Microsoft MCSE: Security certifications. Secure and protect your Windows environment from intruders, malware attacks, and other cyber threats

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Linux Mastery

Infrastructure security with Red Team and Blue Team tactics

Securing Solaris, Mac OS X, Linux & Free BSD

Cybersecurity Attacks – Red Team Strategies

The Ultimate Linux Operating System and Command Line Mastery

Break down the misconceptions of the Internet of Things by examining the different security building blocks available in Intel Architecture (IA) based IoT platforms. This open access book reviews the threat pyramid, secure boot, chain of trust, and the SW stack

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leading up to defense-in-depth. The IoT presents unique challenges in implementing security and Intel has both CPU and Isolated Security Engine capabilities to simplify it. This book explores the challenges to secure these devices to make them immune to different threats originating from within and outside the network. The requirements and robustness rules to protect the assets vary greatly and there is no single blanket solution approach to implement security. Demystifying Internet of Things Security provides clarity to industry professionals and provides an overview of different security solutions

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What You'll Learn Secure devices, immunizing them against different threats originating from inside and outside the network Gather an overview of the different security building blocks available in Intel Architecture (IA) based IoT platforms Understand the threat pyramid, secure boot, chain of trust, and the software stack leading up to defense-in-depth Who This Book Is For Strategists, developers, architects, and managers in the embedded and Internet of Things (IoT) space trying to understand and implement the security in the IoT devices/platforms.

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LEARNING INFORMATION SYSTEMS SECURITY & ASSURANCE SERIES! Security Strategies in Linux Platforms and Applications covers every major aspect of security on a Linux system. Written by an industry expert, this book is divided into three natural parts to illustrate key concepts in the field. It opens with a discussion on the risks, threats, and vulnerabilities associated with Linux as an operating system using examples from Red Hat Enterprise Linux and Ubuntu. Part 2 discusses how to take advantage of the layers of security available to Linux--user and group options, filesystems, and security options for important

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services, as well as the security modules associated with AppArmor and SELinux. The book closes with a look at the use of both open source and proprietary tools when building a layered security strategy for Linux operating system environments. Using real-world examples and exercises, this useful resource incorporates hands-on activities to walk students through the fundamentals of security strategies related to the Linux system.

See how privileges, passwords, vulnerabilities, and exploits can be combined as an attack vector and breach any organization. Cyber attacks continue to

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increase in volume and sophistication. It is not a matter of if, but when, your organization will be breached. Attackers target the perimeter network, but, in recent years, have refocused their efforts on the path of least resistance: users and their privileges. In decades past, an entire enterprise might be sufficiently managed through just a handful of credentials. Today's environmental complexity means privileged credentials are needed for a multitude of different account types (from domain admin and sysadmin to workstations with admin rights), operating systems (Windows, Unix, Linux, etc.), directory services,

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databases, applications, cloud instances, networking hardware, Internet of Things (IoT), social media, and more. When unmanaged, these privileged credentials pose a significant threat from external hackers and insider threats. There is no one silver bullet to provide the protection you need against all vectors and stages of an attack. And while some new and innovative solutions will help protect against or detect the initial infection, they are not guaranteed to stop 100% of malicious activity. The volume and frequency of privilege-based attacks continues to increase and test the limits of existing security controls and solution

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implementations. Privileged Attack Vectors details the risks associated with poor privilege management, the techniques that hackers and insiders leverage, and the defensive measures that organizations must adopt to protect against a breach, protect against lateral movement, and improve the ability to detect hacker activity or insider threats in order to mitigate the impact. What You'll Learn Know how identities, credentials, passwords, and exploits can be leveraged to escalate privileges during an attack Implement defensive and auditing strategies to mitigate the threats and risk Understand a 12-step privileged

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access management Implementation plan Consider deployment and scope, including risk, auditing, regulations, and oversight solutions Who This Book Is For Security management professionals, new security professionals, and auditors looking to understand and solve privileged escalation threats

Enhance your organization's secure posture by improving your attack and defense strategies Key Features Gain a clear understanding of the attack methods, and patterns to recognize abnormal behavior within your organization with Blue Team tactics. Learn to unique techniques to gather exploitation

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intelligence, identify risk and demonstrate impact with Red Team and Blue Team strategies. A practical guide that will give you hands-on experience to mitigate risks and prevent attackers from infiltrating your system.

Book Description The book will start talking about the security posture before moving to Red Team tactics, where you will learn the basic syntax for the Windows and Linux tools that are commonly used to perform the necessary operations. You will also gain hands-on experience of using new Red Team techniques with powerful tools such as python and PowerShell, which will enable you to discover vulnerabilities in your

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system and how to exploit them. Moving on, you will learn how a system is usually compromised by adversaries, and how they hack user's identity, and the various tools used by the Red Team to find vulnerabilities in a system. In the next section, you will learn about the defense strategies followed by the Blue Team to enhance the overall security of a system. You will also learn about an in-depth strategy to ensure that there are security controls in each network layer, and how you can carry out the recovery process of a compromised system. Finally, you will learn how to create a vulnerability management strategy and the

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different techniques for manual log analysis. By the end of this book, you will be well-versed with Red Team and Blue Team techniques and will have learned the techniques used nowadays to attack and defend systems. What you will learn

Learn the importance of having a solid foundation for your security posture

Understand the attack strategy using cyber security kill chain

Learn how to enhance your defense strategy by improving your security policies, hardening your network, implementing active sensors, and leveraging threat intelligence

Learn how to perform an incident investigation

Get an in-depth understanding of the

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recovery process Understand continuous security monitoring and how to implement a vulnerability management strategy Learn how to perform log analysis to identify suspicious activities Who this book is for This book aims at IT professional who want to venture the IT security domain. IT pentester, Security consultants, and ethical hackers will also find this course useful. Prior knowledge of penetration testing would be beneficial.

Using Security Enhanced Linux

Linux Server Security

Internet and Web Security

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Scenarios and Patterns

Linux Fundamentals

In the five years since the first edition of this classic book was published, Internet use has exploded. The commercial world has rushed headlong into doing business on the Web, often without integrating sound security technologies and policies into their products and methods. The security risks--and the need to protect both business and personal data--have never been greater. We've updated Building Internet Firewalls to address these newer risks. What kinds of security threats does the Internet pose? Some, like password attacks and the

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exploiting of known security holes, have been around since the early days of networking. And others, like the distributed denial of service attacks that crippled Yahoo, E-Bay, and other major e-commerce sites in early 2000, are in current headlines. Firewalls, critical components of today's computer networks, effectively protect a system from most Internet security threats. They keep damage on one part of the network--such as eavesdropping, a worm program, or file damage--from spreading to the rest of the network. Without firewalls, network security problems can rage out of control, dragging more and more systems down. Like the bestselling and highly respected first edition, Building Internet Firewalls, 2nd Edition, is a practical and detailed step-by-step guide to designing and installing firewalls and configuring Internet

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services to work with a firewall. Much expanded to include Linux and Windows coverage, the second edition describes:

Firewall technologies: packet filtering, proxying, network address translation, virtual private networks Architectures such as screening routers, dual-homed hosts, screened hosts, screened subnets, perimeter networks, internal firewalls

Issues involved in a variety of new Internet services and protocols through a firewall Email and News Web services and scripting languages (e.g., HTTP, Java, JavaScript, ActiveX, RealAudio, RealVideo) File transfer and sharing services such as NFS, Samba Remote access services such as Telnet, the BSD "r" commands, SSH, BackOrifice 2000 Real-time conferencing services such as ICQ and talk Naming and directory services (e.g., DNS, NetBT, the Windows

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Browser) Authentication and auditing services (e.g., PAM, Kerberos, RADIUS); Administrative services (e.g., syslog, SNMP, SMS, RIP and other routing protocols, and ping and other network diagnostics) Intermediary protocols (e.g., RPC, SMB, CORBA, IIOP) Database protocols (e.g., ODBC, JDBC, and protocols for Oracle, Sybase, and Microsoft SQL Server) The book's complete list of resources includes the location of many publicly available firewall construction tools.

Memory forensics provides cutting edge technology to help investigate digital attacks Memory forensics is the art of analyzing computer memory (RAM) to solve digital crimes. As a follow-up to the best seller Malware Analyst's Cookbook, experts in the fields of malware, security, and digital forensics bring you a step-by-step guide to memory forensics—now the

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most sought after skill in the digital forensics and incident response fields. Beginning with introductory concepts and moving toward the advanced, The Art of Memory Forensics: Detecting Malware and Threats in Windows, Linux, and Mac Memory is based on a five day training course that the authors have presented to hundreds of students. It is the only book on the market that focuses exclusively on memory forensics and how to deploy such techniques properly. Discover memory forensics techniques: How volatile memory analysis improves digital investigations Proper investigative steps for detecting stealth malware and advanced threats How to use free, open source tools for conducting thorough memory forensics Ways to acquire memory from suspect systems in a forensically sound manner The next era of malware and security breaches

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are more sophisticated and targeted, and the volatile memory of a computer is often overlooked or destroyed as part of the incident response process. The Art of Memory Forensics explains the latest technological innovations in digital forensics to help bridge this gap. It covers the most popular and recently released versions of Windows, Linux, and Mac, including both the 32 and 64-bit editions.

An immersive learning experience enhanced with technical, hands-on labs to understand the concepts, methods, tools, platforms, and systems required to master the art of cybersecurity

Key Features

- Get hold of the best defensive security strategies and tools*
- Develop a defensive security strategy at an enterprise level*
- Get hands-on with advanced cybersecurity threat detection, including XSS, SQL injections,*

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brute forcing web applications, and more
Book Description
Every organization has its own data and digital assets that need to be protected against an ever-growing threat landscape that compromises the availability, integrity, and confidentiality of crucial data. Therefore, it is important to train professionals in the latest defensive security skills and tools to secure them. Mastering Defensive Security provides you with in-depth knowledge of the latest cybersecurity threats along with the best tools and techniques needed to keep your infrastructure secure. The book begins by establishing a strong foundation of cybersecurity concepts and advances to explore the latest security technologies such as Wireshark, Damn Vulnerable Web App (DVWA), Burp Suite, OpenVAS, and Nmap, hardware threats such as a weaponized

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Raspberry Pi, and hardening techniques for Unix, Windows, web applications, and cloud infrastructures. As you make progress through the chapters, you'll get to grips with several advanced techniques such as malware analysis, security automation, computer forensics, and vulnerability assessment, which will help you to leverage pentesting for security. By the end of this book, you'll have become familiar with creating your own defensive security tools using IoT devices and developed advanced defensive security skills. What you will learn Become well versed with concepts related to defensive security Discover strategies and tools to secure the most vulnerable factor – the user Get hands-on experience using and configuring the best security tools Understand how to apply hardening techniques in Windows and Unix

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environmentsLeverage malware analysis and forensics to enhance your security strategySecure Internet of Things (IoT) implementationsEnhance the security of web applications and cloud deploymentsWho this book is for This book is for all IT professionals who want to take their first steps into the world of defensive security; from system admins and programmers to data analysts and data scientists with an interest in security. Experienced cybersecurity professionals working on broadening their knowledge and keeping up to date with the latest defensive developments will also find plenty of useful information in this book. You'll need a basic understanding of networking, IT, servers, virtualization, and cloud platforms before you get started with this book. If you want to learn how to use Linux and level up your career

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but are pressed for time, read on. As the founder of the Linux Training Academy and an instructor of several courses, I've had the good fortune of helping thousands of people hone their Linux skills. Interacting with so many people who are just getting started with the Linux operating system has given me invaluable insight into the particular struggles and challenges people face at this stage. One of the biggest challenges for people interested in learning the ins and outs of Linux is simply a lack of time. When you are working with a limited and extremely valuable resource you want to make sure you make the most of it. The next biggest challenge for Linux newcomers is knowing where to start. There is so much information available that deciding what to focus your attention on first is a big enough hurdle to keep many people from even starting.

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What's worse is starting down the path of learning only to discover too many concepts, commands, and nuances that aren't explained. This kind of experience is frustrating and leaves you with more questions than answers. That's why I've written this book. Not only have I condensed the most important material into five sections, each designed to be consumed in a day, I've also structured the content in a logical and systematic manner. This way you'll be sure to make the most out of your time by learning the foundational aspects of Linux first and then building upon that foundation each day. In Learn Linux in 5 Days you will learn the most important concepts and commands, and be guided step-by-step through several practical and real-world examples. As new concepts, commands, or jargon are encountered they are explained in

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plain language, making it easy to understand. Here is what you will learn by reading Learn Linux in 5 Days: How to get access to a Linux server if you don't already. What a Linux distribution is and which one to choose. What software is needed to connect to Linux from Mac and Windows computers. Screenshots included. What SSH is and how to use it, including creating and using SSH keys. The file system layout of Linux systems and where to find programs, configurations, and documentation. The basic Linux commands you'll use most often. Creating, renaming, moving, and deleting directories. Listing, reading, creating, editing, copying, and deleting files. Exactly how permissions work and how to decipher the most cryptic Linux permissions with ease. How to use the nano, vi, and emacs editors. Two methods to search

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for files and directories. How to compare the contents of files. What pipes are, why they are useful, and how to use them. How to compress files to save space and make transferring data easy. How and why to redirect input and output from applications. How to customize your shell prompt. How to be efficient at the command line by using aliases, tab completion, and your shell history. How to schedule and automate jobs using cron. How to switch users and run processes as others. Where to go for even more in-depth coverage on each topic. What you learn in Learn Linux in 5 Days applies to any Linux environment including Ubuntu, Debian, Linux Mint, RedHat, Fedora, OpenSUSE, Slackware, and more. Scroll up, click the Buy Now With 1 Click button and get started learning Linux today!

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SELinux by Example

Learning Kali Linux

Understanding the Linux Kernel

Network Security Strategies

Successful IoT Device/Edge and Platform Security

Deployment

Security Testing, Penetration Testing, and Ethical Hacking

One of the fastest ways to learn Linux is with this perennial favorite Eight previous top-selling editions of Linux For Dummies can't be wrong. If you've been wanting to migrate to Linux, this book is the best way to get there. Written in easy-to-follow, everyday terms, Linux For Dummies 9th Edition gets you started by concentrating on two distributions of Linux that

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beginners love: the Ubuntu LiveCD distribution and the gOS Linux distribution, which comes pre-installed on Everex computers. The book also covers the full Fedora distribution. Linux is an open-source operating system and a low-cost or free alternative to Microsoft Windows; of numerous distributions of Linux, this book covers Ubuntu Linux, Fedora Core Linux, and gOS Linux, and includes them on the DVD. Install new open source software via Synaptic or RPM package managers Use free software to browse the Web, listen to music, read e-mail, edit photos, and even run Windows in a virtualized environment Get acquainted with the Linux command line If you want to get a solid foundation in Linux, this popular, accessible book is for you. Note: CD-ROM/DVD

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and other supplementary materials are not included as part of eBook file.

"The security of information systems has not improved at a rate consistent with the growth and sophistication of the attacks being made against them. To address this problem, we must improve the underlying strategies and techniques used to create our systems. Specifically, we must build security in from the start, rather than append it as an afterthought. That's the point of Secure Coding in C and C++. In careful detail, this book shows software developers how to build high-quality systems that are less vulnerable to costly and even catastrophic attack. It's a book that every developer should read before the start of any serious project." --Frank Abagnale, author,

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lecturer, and leading consultant on fraud prevention and secure documents Learn the Root Causes of Software Vulnerabilities and How to Avoid Them Commonly exploited software vulnerabilities are usually caused by avoidable software defects. Having analyzed nearly 18,000 vulnerability reports over the past ten years, the CERT/Coordination Center (CERT/CC) has determined that a relatively small number of root causes account for most of them. This book identifies and explains these causes and shows the steps that can be taken to prevent exploitation. Moreover, this book encourages programmers to adopt security best practices and develop a security mindset that can help protect software from tomorrow's attacks, not just today's. Drawing on the

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CERT/CC's reports and conclusions, Robert Seacord systematically identifies the program errors most likely to lead to security breaches, shows how they can be exploited, reviews the potential consequences, and presents secure alternatives. Coverage includes technical detail on how to Improve the overall security of any C/C++ application Thwart buffer overflows and stack-smashing attacks that exploit insecure string manipulation logic Avoid vulnerabilities and security flaws resulting from the incorrect use of dynamic memory management functions Eliminate integer-related problems: integer overflows, sign errors, and truncation errors Correctly use formatted output functions without introducing format-string vulnerabilities Avoid I/O vulnerabilities,

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including race conditions Secure Coding in C and C++ presents hundreds of examples of secure code, insecure code, and exploits, implemented for Windows and Linux. If you're responsible for creating secure C or C++ software--or for keeping it safe--no other book offers you this much detailed, expert assistance.

"The objective of this title is to provide a soft, accessible, and practical introduction to Linux environments and command line basics. The addition of new virtual labs will also empower students to apply theory in hands-on exercises in real time. Together with Security Strategies in Linux Platforms and Applications, this title will also be mapped to CompTIA's Linux+ certification"--

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Penetration testers simulate cyber attacks to find security weaknesses in networks, operating systems, and applications. Information security experts worldwide use penetration techniques to evaluate enterprise defenses. In *Penetration Testing*, security expert, researcher, and trainer Georgia Weidman introduces you to the core skills and techniques that every pentester needs. Using a virtual machine–based lab that includes Kali Linux and vulnerable operating systems, you'll run through a series of practical lessons with tools like Wireshark, Nmap, and Burp Suite. As you follow along with the labs and launch attacks, you'll experience the key stages of an actual assessment—including information gathering, finding exploitable vulnerabilities, gaining access to systems,

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post exploitation, and more. Learn how to: –Crack passwords and wireless network keys with brute-forcing and wordlists –Test web applications for vulnerabilities –Use the Metasploit Framework to launch exploits and write your own Metasploit modules –Automate social-engineering attacks –Bypass antivirus software –Turn access to one machine into total control of the enterprise in the post exploitation phase You'll even explore writing your own exploits. Then it's on to mobile hacking—Weidman's particular area of research—with her tool, the Smartphone Pentest Framework. With its collection of hands-on lessons that cover key tools and strategies, Penetration Testing is the introduction that every aspiring hacker needs.

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Mastering Defensive Security

Secure your Linux environment from modern-day attacks with practical recipes, 2nd Edition

Database Security

A Hands-On Introduction to Hacking

Kali Linux Network Scanning Cookbook

Develop your red team skills by learning essential foundational tactics, techniques, and procedures, and boost the overall security posture of your organization by leveraging the homefield advantage

Key Features Build, manage, and measure an offensive red team program Leverage the homefield advantage to stay ahead of your adversaries

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Understand core adversarial tactics and techniques, and protect pentesters and pentesting assets Book Description It's now more important than ever for organizations to be ready to detect and respond to security events and breaches. Preventive measures alone are not enough for dealing with adversaries. A well-rounded prevention, detection, and response program is required. This book will guide you through the stages of building a red team program, including strategies and homefield advantage opportunities to boost security. The book starts by guiding you through establishing, managing, and measuring a red team program, including effective ways for sharing results and findings to raise

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awareness. Gradually, you'll learn about progressive operations such as cryptocurrency mining, focused privacy testing, targeting telemetry, and even blue team tooling. Later, you'll discover knowledge graphs and how to build them, then become well-versed with basic to advanced techniques related to hunting for credentials, and learn to automate Microsoft Office and browsers to your advantage. Finally, you'll get to grips with protecting assets using decoys, auditing, and alerting with examples for major operating systems. By the end of this book, you'll have learned how to build, manage, and measure a red team program effectively and be well-versed with the fundamental operational techniques required to

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enhance your existing skills. What you will learn
Understand the risks associated with security breaches
Implement strategies for building an effective penetration testing team
Map out the homefield using knowledge graphs
Hunt credentials using indexing and other practical techniques
Gain blue team tooling insights to enhance your red team skills
Communicate results and influence decision makers with appropriate data
Who this book is for
This is one of the few detailed cybersecurity books for penetration testers, cybersecurity analysts, security leaders and strategists, as well as red team members and chief information security officers (CISOs) looking to secure their organizations from

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adversaries. The program management part of this book will also be useful for beginners in the cybersecurity domain. To get the most out of this book, some penetration testing experience, and software engineering and debugging skills are necessary.

To thoroughly understand what makes Linux tick and why it's so efficient, you need to delve deep into the heart of the operating system--into the Linux kernel itself. The kernel is Linux--in the case of the Linux operating system, it's the only bit of software to which the term "Linux" applies. The kernel handles all the requests or completed I/O operations and determines which programs will share its processing

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time, and in what order. Responsible for the sophisticated memory management of the whole system, the Linux kernel is the force behind the legendary Linux efficiency. The new edition of Understanding the Linux Kernel takes you on a guided tour through the most significant data structures, many algorithms, and programming tricks used in the kernel. Probing beyond the superficial features, the authors offer valuable insights to people who want to know how things really work inside their machine. Relevant segments of code are dissected and discussed line by line. The book covers more than just the functioning of the code, it explains the theoretical underpinnings for why Linux does things

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the way it does. The new edition of the book has been updated to cover version 2.4 of the kernel, which is quite different from version 2.2: the virtual memory system is entirely new, support for multiprocessor systems is improved, and whole new classes of hardware devices have been added. The authors explore each new feature in detail. Other topics in the book include: Memory management including file buffering, process swapping, and Direct memory Access (DMA) The Virtual Filesystem and the Second Extended Filesystem Process creation and scheduling Signals, interrupts, and the essential interfaces to device drivers Timing Synchronization in the kernel Interprocess Communication (IPC) Program

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execution Understanding the Linux Kernel, Second Edition will acquaint you with all the inner workings of Linux, but is more than just an academic exercise. You'll learn what conditions bring out Linux's best performance, and you'll see how it meets the challenge of providing good system response during process scheduling, file access, and memory management in a wide variety of environments. If knowledge is power, then this book will help you make the most of your Linux system.

Enhance Windows security and protect your systems and servers from various cyber attacks Key Features Protect your device using a zero-trust approach and advanced security techniques Implement efficient

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security measures using Microsoft Intune, Configuration Manager, and Azure solutions

Understand how to create cyber-threat defense solutions effectively

Book Description Are you looking for effective ways to protect Windows-based systems from being compromised by unauthorized users? Mastering Windows Security and Hardening is a detailed guide that helps you gain expertise when implementing efficient security measures and creating robust defense solutions. We will begin with an introduction to Windows security fundamentals, baselining, and the importance of building a baseline for an organization. As you advance, you will learn how to effectively secure and harden your Windows-

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based system, protect identities, and even manage access. In the concluding chapters, the book will take you through testing, monitoring, and security operations. In addition to this, you'll be equipped with the tools you need to ensure compliance and continuous monitoring through security operations. By the end of this book, you'll have developed a full understanding of the processes and tools involved in securing and hardening your Windows environment. What you will learn Understand baselining and learn the best practices for building a baseline Get to grips with identity management and access management on Windows-based systems Delve into the device administration and remote management of Windows-

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based systems Explore security tips to harden your Windows server and keep clients secure Audit, assess, and test to ensure controls are successfully applied and enforced Monitor and report activities to stay on top of vulnerabilities Who this book is for This book is for system administrators, cybersecurity and technology professionals, solutions architects, or anyone interested in learning how to secure their Windows-based systems. A basic understanding of Windows security concepts, Intune, Configuration Manager, Windows PowerShell, and Microsoft Azure will help you get the best out of this book.

PART OF THE NEW JONES & BARTLETT LEARNING
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ASSURANCE SERIES! Security Strategies in Linux Platforms and Applications covers every major aspect of security on a Linux system. Written by an industry expert, this book is divided into three natural parts to illustrate key concepts in the field. It opens with a discussion on the risks, threats, and vulnerabilities associated with Linux as an operating system using examples from Red Hat Enterprise Linux and Ubuntu. Part 2 discusses how to take advantage of the layers of security available to Linux--user and group options, filesystems, and security options for important services, as well as the security modules associated with AppArmor and SELinux. The book closes with a look at the use of both open source and

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proprietary tools when building a layered security strategy for Linux operating system environments. Using real-world examples and exercises, this useful resource incorporates hands-on activities to walk students through the fundamentals of security strategies related to the Linux system.

The Practice of Network Security Monitoring

Google Hacking for Penetration Testers

A Cyberwarfare Approach to Implementing Adaptive Enterprise Protection, Detection, and Reaction Strategies

Cybersecurity ??? Attack and Defense Strategies

Linux For Dummies

Detecting Malware and Threats in Windows, Linux,

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and Mac Memory

**Security Strategies in Linux Platforms
and Applications Jones & Bartlett
Publishers**

**Advanced Persistent Security covers
secure network design and
implementation, including
authentication, authorization, data and
access integrity, network monitoring,
and risk assessment. Using such recent
high profile cases as Target, Sony, and
Home Depot, the book explores**

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information security risks, identifies the common threats organizations face, and presents tactics on how to prioritize the right countermeasures. The book discusses concepts such as malignant versus malicious threats, adversary mentality, motivation, the economics of cybercrime, the criminal infrastructure, dark webs, and the criminals organizations currently face. Contains practical and cost-effective recommendations for proactive and

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reactive protective measures Teaches users how to establish a viable threat intelligence program Focuses on how social networks present a double-edged sword against security programs "The Second Edition of Security Strategies in Linux Platforms and Applications opens with a discussion of risks, threats, and vulnerabilities. Part 2 discusses how to take advantage of the layers of security and the modules associated with AppArmor and

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SELinux. Part 3 looks at the use of open source and proprietary tools when building a layered security strategy"-- Achieve the gold standard in penetration testing with Kali using this masterpiece, now in its third edition! About This Book Get a rock-solid insight into penetration testing techniques and test your corporate network against threats like never before Formulate your pentesting strategies by relying on the most up-to-

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date and feature-rich Kali version in town—Kali Linux 2 (aka Sana).

Experience this journey with new cutting-edge wireless penetration tools and a variety of new features to make your pentesting experience smoother Who This Book Is For If you are an IT security professional or a student with basic knowledge of Unix/Linux operating systems, including an awareness of information security factors, and you want to use Kali Linux for penetration

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testing, this book is for you. What You
Will Learn Find out to download and
install your own copy of Kali Linux
Properly scope and conduct the initial
stages of a penetration test Conduct
reconnaissance and enumeration of
target networks Exploit and gain a
foothold on a target system or network
Obtain and crack passwords Use the Kali
Linux NetHunter install to conduct
wireless penetration testing Create
proper penetration testing reports In

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Detail Kali Linux is a comprehensive penetration testing platform with advanced tools to identify, detect, and exploit the vulnerabilities uncovered in the target network environment. With Kali Linux, you can apply appropriate testing methodology with defined business objectives and a scheduled test plan, resulting in a successful penetration testing project engagement. Kali Linux - Assuring Security by Penetration Testing is a fully focused,

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structured book providing guidance on developing practical penetration testing skills by demonstrating cutting-edge hacker tools and techniques with a coherent, step-by-step approach. This book offers you all of the essential lab preparation and testing procedures that reflect real-world attack scenarios from a business perspective, in today's digital age. Style and approach This practical guide will showcase penetration testing through

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cutting-edge tools and techniques using
a coherent, step-by-step approach.

Kali Linux 2 - Assuring Security by
Penetration Testing

Privileged Attack Vectors

A practical guide to building a
penetration testing program having
homefield advantage

Laboratory Manual Version 1.5 Security
Strategies in Linux Platforms and
Applications

Practical Linux Security Cookbook

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Building Internet Firewalls

Two leading Linux developers show how to choose the best tools for your specific needs and integrate them into a complete development environment that maximizes your effectiveness in any project, no matter how large or complex. Includes research, requirements, coding, debugging, deployment, maintenance and beyond, choosing and implementing editors, compilers, assemblers, debuggers, version control systems, utilities, using Linux Standard Base to deliver applications that run reliably on a wide range of Linux systems, comparing Java development options for Linux platforms, using

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Linux in cross-platform and embedded development environments.

When Practical Unix Security was first published more than a decade ago, it became an instant classic. Crammed with information about host security, it saved many a Unix system administrator from disaster. The second edition added much-needed Internet security coverage and doubled the size of the original volume. The third edition is a comprehensive update of this very popular book - a companion for the Unix/Linux system administrator who needs to secure his or her organization's system, networks, and web presence in an increasingly hostile

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world. Focusing on the four most popular Unix variants today--Solaris, Mac OS X, Linux, and FreeBSD--this book contains new information on PAM (Pluggable Authentication Modules), LDAP, SMB/Samba, anti-theft technologies, embedded systems, wireless and laptop issues, forensics, intrusion detection, chroot jails, telephone scanners and firewalls, virtual and cryptographic filesystems, WebNFS, kernel security levels, outsourcing, legal issues, new Internet protocols and cryptographic algorithms, and much more. Practical Unix & Internet Security consists of six parts: Computer security basics: introduction to security problems and

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solutions, Unix history and lineage, and the importance of security policies as a basic element of system security.

Security building blocks: fundamentals of Unix

passwords, users, groups, the Unix filesystem, cryptography, physical security, and personnel security.

Network security: a detailed look at modem and dialup security, TCP/IP, securing individual network services,

Sun's RPC, various host and network authentication systems (e.g., NIS, NIS+, and Kerberos), NFS and other filesystems, and the importance of secure programming.

Secure operations: keeping up to date in today's changing security world, backups, defending against attacks,

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performing integrity management, and auditing. Handling security incidents: discovering a break-in, dealing with programmed threats and denial of service attacks, and legal aspects of computer security. Appendixes: a comprehensive security checklist and a detailed bibliography of paper and electronic references for further reading and research. Packed with 1000 pages of helpful text, scripts, checklists, tips, and warnings, this third edition remains the definitive reference for Unix administrators and anyone who cares about protecting their systems and data from today's threats.

The Laboratory Manual Version 1.5 To Accompany

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Security Strategies In Linux Platforms And Applications Is The Lab Companion To The Information Systems And Security Series Title, Security Strategies In Linux Platforms And Applications. It Provides Hands-On Exercises Using The Jones & Bartlett Learning Virtual Security Cloud Labs, That Provide Real-World Experience With Measurable Learning Outcomes. About The Series: Visit www.issaseries.com For A Complete Look At The Series! The Jones & Bartlett Learning Information System & Assurance Series Delivers Fundamental IT Security Principles Packed With Real-World Applications And Examples For IT Security,

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Cybersecurity, Information Assurance, And Information Systems Security Programs. Authored By Certified Information Systems Security Professionals (Cissps), And Reviewed By Leading Technical Experts In The Field, These Books Are Current Forward-Thinking Resources That Enable Readers To Solve The Cybersecurity Challenges Of Today And Tomorrow.

Reveals how to protect one's network from potential security threats that might enter via such endpoints as employee laptops, PDAs, and other end-user devices, explaining how to identify the products, tools, and processes required to secure endpoint devices; how to

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configure them securely; how to identify and remediate a compromised device; and how to protect a network from the growing number of endpoint viruses and malware.

Original. (Advanced)

Network Security, Firewalls and VPNs

Building Effective Cyber-Defense Strategies to Protect Organizations

Security Strategies in Windows Platforms and Applications

The Art of Memory Forensics

Endpoint Security

Handbook of Hospice Policies and Procedures

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PART OF THE NEW JONES & BARTLETT LEARNING INFORMATION SYSTEMS SECURITY & ASSURANCE SERIES! More than 90 percent of individuals, students, educators, businesses, organizations, and governments use Microsoft Windows, which has experienced frequent attacks against its well-publicized vulnerabilities. Written by an industry expert, Security Strategies in Windows Platforms and Applications focuses on new risks, threats, and vulnerabilities associated with the Microsoft Windows operating system. Particular emphasis is placed on Windows XP, Vista, and 7 on the desktop, and Windows Server 2003 and 2008 versions. It highlights how to use tools and techniques to decrease risks arising from vulnerabilities in Microsoft Windows operating systems and applications. The book also

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includes a resource for readers desiring more information on Microsoft Windows OS hardening, application security, and incident management. With its accessible writing style, and step-by-step examples, this must-have resource will ensure readers are educated on the latest Windows security strategies and techniques.

As a society that relies on technology to thrive, we face a growing number of potentially catastrophic threats to network security daily. DATABASE SECURITY delivers the know-how and skills that today's professionals must have to protect their company's technology infrastructures, intellectual property, and future prosperity. From database installation and testing to auditing and SQL Injection, this text delves into the essential processes and protocols required to prevent

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intrusions, and supports each topic with real-world examples that help future IT professionals understand their critical responsibilities. Unlike most texts on database security, which take a computer scientist's analytical approach, Database Security focuses on implementation, and was written expressly for the expanding field of Information Technology careers. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

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

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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

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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

Network security is not simply about building impenetrable walls—determined attackers will eventually overcome traditional defenses. The most effective computer security

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strategies integrate network security monitoring (NSM): the collection and analysis of data to help you detect and respond to intrusions. In The Practice of Network Security Monitoring, Mandiant CSO Richard Bejtlich shows you how to use NSM to add a robust layer of protection around your networks—no prior experience required. To help you avoid costly and inflexible solutions, he teaches you how to deploy, build, and run an NSM operation using open source software and vendor-neutral tools. You'll learn how to: –Determine where to deploy NSM platforms, and size them for the monitored networks –Deploy stand-alone or distributed NSM installations –Use command line and graphical packet analysis tools, and NSM consoles –Interpret network evidence from server-side and client-side intrusions

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–Integrate threat intelligence into NSM software to identify sophisticated adversaries There's no foolproof way to keep attackers out of your network. But when they get in, you'll be prepared. The Practice of Network Security Monitoring will show you how to build a security net to detect, contain, and control them. Attacks are inevitable, but losing sensitive data shouldn't be.

Secure Coding in C and C++

Mastering Windows Security and Hardening

Configuring, Using, and Maintaining a Complete Programming Environment

Demystifying Internet of Things Security

Penetration Testing

Learn Linux in 5 Days

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Discover and learn one of the most reliable and easy-to-use Operating Systems around! Do you want an excellent Operating System and be able to use it for FREE? Come on, you're close on the right path of discovering and experiencing it! If you are in need of a fast, reliable, secured, flexible, easy to use and understand, and most importantly, it is a compatible software to all devices; here it is, the Linux Operating System. Linux is one of the most reliable Operating System (OS), a fast way to use different applications, and it's FREE to use and download. That makes this Operating System stand out with the others. It is just ONE CLICK away and you'll enjoy the perks of having this OS in your own computers or devices. More than anything, Linux can be used for a variety of applications. Whether you're opting to create a better system for business, or just want to

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more creative and play around with things, Linux can help you do a great job. If you're too curious and eager enough to know more about this Operating System (OS) and its process, this book will help you understand it better. The "Linux Mastery - The Ultimate Linux Operating System and Command Line Mastery Guide" book gives you all the information that you want to know about this "one of a kind" Operating System. Moreover, in this book you will learn the following:*

- What is Linux?*
- Why Linux - The Benefits of Linux*
- Choosing a Distribution*
- Preparing to Install Linux*
- Installing Linux*
- Using Linux for Work and Play*
- Getting to Know Commands*
- Managing Files and Directories*
- Administration and Security

Furthermore, this book contains proven steps and strategies on how to make use of Linux, whether for work or

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play, understand the commands that you have to use, choose distributions, and understand exactly why Linux matters-and more. So what are you waiting for? Experience and explore the Linux Operating System

One of the biggest buzzwords in the IT industry for the past few years, virtualization has matured into a practical requirement for many best-practice business scenarios, becoming an invaluable tool for security professionals at companies of every size. In addition to saving time and other resources, virtualization affords unprecedented means for intrusion and malware detection, prevention, recovery, and analysis. Taking a practical approach in a growing market underserved by books, this hands-on title is the first to combine in one place the most important and sought-after uses of virtualization for enhanced

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security, including sandboxing, disaster recovery and high availability, forensic analysis, and honeypotting. Already gaining buzz and traction in actual usage at an impressive rate, Gartner research indicates that virtualization will be the most significant trend in IT infrastructure and operations over the next four years. A recent report by IT research firm IDC predicts the virtualization services market will grow from \$5.5 billion in 2006 to \$11.7 billion in 2011. With this growth in adoption, becoming increasingly common even for small and midsize businesses, security is becoming a much more serious concern, both in terms of how to secure virtualization and how virtualization can serve critical security objectives. Titles exist and are on the way to fill the need for securing virtualization, but security professionals do not yet have a book outlining the

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many security applications of virtualization that will become increasingly important in their job requirements. This book is the first to fill that need, covering tactics such as isolating a virtual environment on the desktop for application testing, creating virtualized storage solutions for immediate disaster recovery and high availability across a network, migrating physical systems to virtual systems for analysis, and creating complete virtual systems to entice hackers and expose potential threats to actual production systems. About the Technologies A sandbox is an isolated environment created to run and test applications that might be a security risk. Recovering a compromised system is as easy as restarting the virtual machine to revert to the point before failure. Employing virtualization on actual production systems, rather than just test environments,

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yields similar benefits for disaster recovery and high availability. While traditional disaster recovery methods require time-consuming reinstallation of the operating system and applications before restoring data, backing up to a virtual machine makes the recovery process much easier, faster, and efficient. The virtual machine can be restored to same physical machine or an entirely different machine if the original machine has experienced irreparable hardware failure. Decreased downtime translates into higher availability of the system and increased productivity in the enterprise. Virtualization has been used for years in the field of forensic analysis, but new tools, techniques, and automation capabilities are making it an increasingly important tool. By means of virtualization, an investigator can create an exact working copy of a physical

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computer on another machine, including hidden or encrypted partitions, without altering any data, allowing complete access for analysis. The investigator can also take a live snapshot to review or freeze the target computer at any point in time, before an attacker has a chance to cover his tracks or inflict further damage.

With more than 600 security tools in its arsenal, the Kali Linux distribution can be overwhelming. Experienced and aspiring security professionals alike may find it challenging to select the most appropriate tool for conducting a given test. This practical book covers Kali's expansive security capabilities and helps you identify the tools you need to conduct a wide range of security tests and penetration tests. You'll also explore the vulnerabilities that make those tests necessary. Author Ric

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Messier takes you through the foundations of Kali Linux and explains methods for conducting tests on networks, web applications, wireless security, password vulnerability, and more. You'll discover different techniques for extending Kali tools and creating your own toolset. Learn tools for stress testing network stacks and applications Perform network reconnaissance to determine what's available to attackers Execute penetration tests using automated exploit tools such as Metasploit Use cracking tools to see if passwords meet complexity requirements Test wireless capabilities by injecting frames and cracking passwords Assess web application vulnerabilities with automated or proxy-based tools Create advanced attack techniques by extending Kali tools or developing your own Use Kali Linux to generate reports once

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testing is complete

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SERIES! Security Strategies in Linux Platforms and

Applications covers every major aspect of security on a Linux system. Written by an industry expert, this book is divided into three natural parts to illustrate key concepts in the field. It opens with a discussion on the risks, threats, and vulnerabilities associated with Linux as an operating system using examples from Red Hat Enterprise Linux and Ubuntu. Part 2 discusses how to take advantage of the layers of security available to Linux—user and group options, filesystems, and security options for important services, as well as the security modules associated with AppArmor and SELinux. The book closes with

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a look at the use of both open source and proprietary tools when building a layered security strategy for Linux operating system environments. Using real-world examples and exercises, this useful resource incorporates hands-on activities to walk students through the fundamentals of security strategies related to the Linux system.

Practical UNIX and Internet Security

The Linux Development Platform

Windows Security Monitoring

Security Strategies in Linux Platforms and Applications +

Virtual Lab Access