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This soup-to-nuts collection of recipes covers everything you need to know to perform your job as a Linux network administrator, whether you're new to the job or have years of experience. With Linux Networking Cookbook, you'll dive straight into the gnarly hands-on work of building and maintaining a computer network. Running a network doesn't mean you have all the answers. Networking is a complex subject with reams of reference material that's difficult to keep straight, much less remember. If you want a book that lays out the steps for specific tasks, that clearly explains the commands and configurations, and does not tax your patience with endless ramblings and meanderings into theory and obscure RFCs, this is the book for you. You will find recipes for: Building a gateway, firewall, and wireless access point on a Linux network Building a VoIP server with Asterisk Secure remote administration with SSH Building secure VPNs with OpenVPN, and a Linux PPTP VPN server Single sign-on with Samba for mixed Linux/Windows

LANs Centralized network directory with OpenLDAP Network monitoring with Nagios or MRTG Getting acquainted with IPv6 Setting up hands-free networks installations of new systems Linux system administration via serial console And a lot more. Each recipe includes a clear, hands-on solution with tested code, plus a discussion on why it works. When you need to solve a network problem without delay, and don't have the time or patience to comb through reference books or the Web for answers, Linux Networking Cookbook gives you exactly what you need. Discover the most common web vulnerabilities and prevent them from becoming a threat to your site's security Key Features Familiarize yourself with the most common web vulnerabilities Conduct a preliminary assessment of attack surfaces and run exploits in your lab Explore new tools in the Kali Linux ecosystem for web penetration testing Book Description Web applications are a huge point of attack for malicious hackers and a critical area for security professionals and penetration testers to lock down and secure. Kali Linux is a Linux-based penetration testing platform that provides a broad array of testing tools, many of which can be used to execute web penetration testing. Kali Linux Web Penetration Testing Cookbook gives you the skills you need to cover every stage of a penetration test - from gathering information about the system and application, to identifying vulnerabilities through manual testing. You will also cover the use of vulnerability scanners and look at basic and advanced exploitation techniques that may lead to a full system compromise. You will start by setting up a testing laboratory, exploring the latest features of tools included in Kali Linux and performing a wide range of tasks with OWASP ZAP, Burp Suite and other web proxies and security testing tools. As you make your way through the book, you will learn how to use automated scanners to find security flaws in web applications and understand how to bypass basic security controls. In the concluding chapters, you will look at what you have learned in the context of the Open Web Application Security Project (OWASP) and the top 10 web application vulnerabilities you are most likely to encounter, equipping you with the ability to combat them effectively. By the end of this book, you will have acquired the skills you need to identify, exploit, and prevent web application vulnerabilities. What you will learn Set up a secure penetration testing laboratory Use proxies, crawlers, and spiders to investigate an entire website Identify cross-site scripting and client-side vulnerabilities Exploit vulnerabilities that allow the insertion of code into web applications Exploit vulnerabilities that require complex setups Improve testing efficiency using automated vulnerability scanners Learn how to circumvent security controls put in place to prevent attacks Who this book is for Kali Linux Web Penetration Testing Cookbook is for IT professionals, web developers, security enthusiasts, and security professionals who want an accessible reference on how to find, exploit, and prevent security vulnerabilities in web applications. The basics of operating a Linux environment and prior exposure to security technologies and tools are necessary. A practical, cookbook style with numerous chapters and recipes explaining the penetration testing. The cookbook-style recipes allow you to go directly to your topic of interest if you are an expert using this book as a reference, or to follow topics throughout a chapter to gain in-depth knowledge if you are a beginner. This book is ideal for anyone who wants to get up to speed with Kali Linux. It would also be an ideal book to use as a reference for seasoned penetration testers. 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. Over 120 recipes to perform advanced penetration testing with Kali Linux About This Book Practical recipes to conduct effective penetration testing using the powerful Kali Linux Leverage tools like Metasploit, Wireshark, Nmap, and many more to detect vulnerabilities with ease Confidently perform networking and application attacks using task-oriented recipes Who This Book Is For This book is aimed at IT security professionals, pentesters, and security analysts who have basic knowledge of Kali Linux and want to conduct advanced penetration testing techniques. What You Will Learn Installing, setting up and customizing Kali for pentesting on multiple platforms Pentesting routers and embedded devices Bug hunting 2017 Pwning and escalating through corporate network Buffer overflows 101 Auditing wireless networks Fiddling around with software-defined radio Hacking on the run with NetHunter Writing good quality reports In Detail With the current rate of hacking, it is very important to pentest your environment in order to ensure advanced-level security. This book is packed with practical recipes that will quickly get you started with Kali Linux (version 2016.2) according to your needs, and move on to core functionalities. This book will start with the installation and configuration of Kali Linux so that you can perform your tests. You will learn how to plan attack strategies and perform web application exploitation using tools such as Burp, and Jexboss. You will also learn how to perform network exploitation using Metasploit, Sparta, and Wireshark. Next, you will perform wireless and password attacks using tools such as Patator, John the Ripper, and airoscript-ng.

Lastly, you will learn how to create an optimum quality pentest report! By the end of this book, you will know how to conduct advanced penetration testing thanks to the book's crisp and task-oriented recipes. Style and approach This is a recipe-based book that allows you to venture into some of the most cutting-edge practices and techniques to perform penetration testing with Kali Linux. This book is written in a Cookbook style and it offers learning through recipes with examples and illustrations. Each recipe contains step-by-step instructions about everything necessary to execute a particular task. The book is designed so that you can read it from start to end for beginners, or just open up any chapter and start following the recipes as a reference for advanced users. If you are a beginner or an intermediate user who wants to master the skill of quickly writing scripts to perform various tasks without reading the entire manual, this book is for you. You can start writing scripts and one-liners by simply looking at the similar recipe and its descriptions without any working knowledge of shell scripting or Linux. Intermediate/advanced users as well as system administrators/ developers and programmers can use this book as a reference when they face problems while coding. Take the guesswork out of using regular expressions. With more than 140 practical recipes, this cookbook provides everything you need to solve a wide range of real-world problems. Novices will learn basic skills and tools, and programmers and experienced users will find a wealth of detail. Each recipe provides samples you can use right away. This revised edition covers the regular expression flavors used by C#, Java, JavaScript, Perl, PHP, Python, Ruby, and VB.NET. You'll learn powerful new tricks, avoid flavor-specific gotchas, and save valuable time with this huge library of practical solutions. Learn regular expressions basics through a detailed tutorial Use code listings to implement regular expressions with your language of choice Understand how regular expressions differ from language to language Handle common user input with recipes for validation and formatting Find and manipulate words, special characters, and lines of text Detect integers, floating-point numbers, and other numerical formats Parse source code and process log files Use regular expressions in URLs, paths, and IP addresses Manipulate HTML, XML, and data exchange formats Discover little-known regular expression tricks and techniques Kali Linux is an open source Linux distribution for security, digital forensics, and penetration testing tools, and is now an operating system for Linux users. It is the successor to BackTrack, the world's most popular penetration testing distribution tool. In this age, where online information is at its most vulnerable, knowing how to execute penetration testing techniques such as wireless and password attacks, which hackers use to break into your system or network, help you plug loopholes before it's too late and can save you countless hours and money. Kali Linux Cookbook, Second Edition is an invaluable guide, teaching you how to install Kali Linux and set up a virtual environment to perform your tests. You will learn how to eavesdrop and intercept traffic on wireless networks, bypass intrusion detection systems, attack web applications, check for open ports, and perform data forensics. This book follows the logical approach of a penetration test from start to finish with many screenshots and illustrations that help to explain each tool in detail. This book serves as an excellent source of information for security professionals and novices alike. Intended to anyone interested in numerical computing and data science: students, researchers, teachers, engineers, analysts, hobbyists... Basic knowledge of Python/NumPy is recommended. Some skills in mathematics will help you understand the theory behind the computational methods.

Over 80 recipes on how to identify, exploit, and test web application security with Kali Linux 2 About This Book Familiarize yourself with the most common web vulnerabilities a web application faces, and understand how attackers take advantage of them Set up a penetration testing lab to conduct a preliminary assessment of attack surfaces and run exploits Learn how to prevent vulnerabilities in web applications before an attacker can make the most of it Who This Book Is For This book is for IT professionals, web developers, security enthusiasts, and security professionals who want an accessible reference on how to find, exploit, and prevent security vulnerabilities in web applications. You should know the basics of operating a Linux environment and have some exposure to security technologies and tools. What You Will Learn Set up a penetration testing laboratory in a secure way Find out what information is useful to gather when performing penetration tests and where to look for it Use crawlers and spiders to investigate an entire website in minutes Discover security vulnerabilities in web applications in the web browser and using command-line tools Improve your testing efficiency with the use of automated vulnerability scanners Exploit vulnerabilities that require a complex setup, run custom-made exploits, and prepare for extraordinary scenarios Set up Man in the Middle attacks and use them to identify and exploit security flaws within the communication between users and the web server Create a malicious site that will find and exploit vulnerabilities in the user's web browser Repair the most common web vulnerabilities and understand how to prevent them becoming a threat to a site's security In Detail Web applications are a huge point of attack for malicious hackers and a critical area for security professionals and penetration testers to lock down and secure. Kali Linux is a Linux-based penetration testing platform and operating system that provides a huge array of testing tools, many of which can be used specifically to execute web penetration testing. This book will teach you, in the form step-by-step recipes, how to detect a wide array of vulnerabilities, exploit them to analyze their consequences, and ultimately buffer attackable surfaces so applications are more secure, for you and your users. Starting from the setup of a testing laboratory, this book will give you the skills you need to cover every stage of a penetration test: from gathering information about the system and the application to identifying vulnerabilities through manual testing and the use of vulnerability scanners to both basic and advanced exploitation techniques that may lead to a full system compromise. Finally, we will put this into the context of OWASP and the top 10 web application vulnerabilities you are most likely to encounter, equipping you with the ability to combat them effectively. By the end of the book, you will have the required skills to identify, exploit, and prevent web application vulnerabilities. Style and approach Taking a recipe-based approach to web security, this book has been designed to cover each stage of a penetration test, with descriptions on how tools work and why certain programming or configuration practices can become security vulnerabilities that may put a whole system, or network, at risk. Each topic is presented as a sequence of tasks and contains a proper explanation of why each task is performed and what it accomplishes. 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. This book is written in a Cookbook style and it offers learning through recipes with examples and illustrations. Each recipe contains step-by-step instructions about everything necessary to execute a particular task. The book is designed so that you can read it from start to end for beginners, or just open up any chapter and start following the recipes as a reference for advanced users.

If you are a beginner or an intermediate user who wants to master the skill of quickly writing scripts to perform various tasks without reading the entire manual, this book is for you. You can start writing scripts and one-liners by simply looking at the similar recipe and its descriptions without any working knowledge of shell scripting or Linux. Intermediate/advanced users as well as system administrators/ developers and programmers can use this book as a reference when they face problems while coding. Don't neglect the shell - this book will empower you to use simple commands to perform complex tasks. Whether you're a casual or advanced Linux user, the cookbook approach makes it all so brilliantly accessible and, above all, useful.

Overview
Master the art of crafting one-liner command sequence to perform text processing, digging data from files, backups to sysadmin tools, and a lot more
And if powerful text processing isn't enough, see how to make your scripts interact with the web-services like Twitter, Gmail
Explores the possibilities with the shell in a simple and elegant way - you will see how to effectively solve problems in your day to day life
In Detail
The shell remains one of the most powerful tools on a computer system - yet a large number of users are unaware of how much one can accomplish with it. Using a combination of simple commands, we will see how to solve complex problems in day to day computer usage. Linux Shell Scripting Cookbook, Second Edition will take you through useful real-world recipes designed to make your daily life easy when working with the shell. The book shows the reader how to effectively use the shell to accomplish complex tasks with ease. The book discusses basics of using the shell, general commands and proceeds to show the reader how to use them to perform complex tasks with ease. Starting with the basics of the shell, we will learn simple commands with

their usages allowing us to perform operations on files of different kind. The book then proceeds to explain text processing, web interaction and concludes with backups, monitoring and other sysadmin tasks. Linux Shell Scripting Cookbook, Second Edition serves as an excellent guide to solving day to day problems using the shell and few powerful commands together to create solutions. What you will learn from this book Explore a variety of regular usage tasks and how it can be made faster using shell command Write shell scripts that can dig data from web and process it with few lines of code Use different kinds of tools together to create solutions Interact with simple web API from scripts Perform and automate tasks such as automating backups and restore with archiving tools Create and maintain file/folder archives, compression formats and encrypting techniques with shell Set up Ethernet and Wireless LAN with the shell script Monitor different activities on the network using logging techniques Approach This book is written in a Cookbook style and it offers learning through recipes with examples and illustrations. Each recipe contains step-by-step instructions about everything necessary to execute a particular task. The book is designed so that you can read it from start to end for beginners, or just open up any chapter and start following the recipes as a reference for advanced users. Who this book is written for This book is both for the casual GNU/Linux users who want to do amazing things with the shell, and for advanced users looking for ways to make their lives with the shell more productive. You can start writing scripts and one-liners by simply looking at the similar recipe and its descriptions without any working knowledge of shell scripting or Linux. Intermediate/advanced users as well as system administrators/ developers and programmers can use this book as a reference when they face problems while coding. The key to mastering any Unix system, especially Linux and Mac OS X, is a thorough knowledge of shell scripting. Scripting is a way to harness and customize the power of any Unix system, and it's an essential skill for any Unix users, including system administrators and professional OS X developers. But beneath this simple promise lies a treacherous ocean of variations in Unix commands and standards. bash Cookbook teaches shell scripting the way Unix masters practice the craft. It presents a variety of recipes and tricks for all levels of shell programmers so that anyone can become a proficient user of the most common Unix shell -- the bash shell -- and cygwin or other popular Unix emulation packages. Packed full of useful scripts, along with examples that explain how to create better scripts, this new cookbook gives professionals and power users everything they need to automate routine tasks and enable them to truly manage their systems -- rather than have their systems manage them. Over 80 recipes to get up and running with CentOS 7 Linux server About This Book A practical guide to install, configure, administer and maintain CentOS 7 servers An in-depth guide to the CentOS 7 operating system, exploring its various new features and changes in server administration Presents tricks and solutions to tackle common server issues with the help of practical examples and real-life scenarios Who This Book Is For This book is targeted at beginner and more experienced system administrators alike who want to use CentOS as their server solution. Readers do not need much pre-knowledge or experience at all to work with this book. What You Will Learn Install and configure CentOS 7 Linux server system from scratch using normal and advanced methods Maintain a performance-based and secure server solution by deploying expert configuration advice and managing software packages Monitor, manage and develop your server's file system to maintain a stable performance Gain best practice methods

on sharing files and resources through a network Install and configure common standard services such as web, mail, FTP, database and domain name server technologies Introduce you to the world of operating-system-level virtualization using the Docker platform. Understand the fundamentals of the Security-Enhanced Linux access control architecture Monitor your IT infrastructure using Nagios In Detail This book will provide you with a comprehensive series of starting points that will give you direct access to the inner workings of the latest CentOS version 7 and help you trim the learning curve to master your server. You will begin with the installation and basic configuration of CentOS 7, followed by learning how to manage your system, services and software packages. You will then gain an understanding of how to administer the file system, secure access to your server and configure various resource sharing services such as file, printer and DHCP servers across your network. Further on, we cover advanced topics such as FTP services, building your own DNS server, running database servers, and providing mail and web services. Finally, you will get a deep understanding of SELinux and you will learn how to work with Docker operating-system virtualization and how to monitor your IT infrastructure with Nagios. By the end of this book, you will have a fair understanding of all the aspects of configuring, implementing and administering CentOS 7 Linux server and how to put it in control. Style and approach This book is a practical reference guide with hands-on examples and solutions to real-world administration problems. It covers in-depth and comprehensive information on CentOS 7 and its new features. Introduction to the Command Line is a visual guide that teaches the most important Unix and Linux shell commands in a simple and straight forward manner. Command line programs covered in this book are demonstrated with typical usage to aid in the learning process and help you master the command line quickly and easily. Covers popular Unix, Linux, and BSD systems. This unique and valuable collection of tips, tools, and scripts provides clear, concise, hands-on solutions that can be applied to the challenges facing anyone running a network of Linux servers from small networks to large data centers in the practical and popular problem-solution-discussion O'Reilly cookbook format. The Linux Cookbook covers everything you'd expect: backups, new users, and the like. But it also covers the non-obvious information that is often ignored in other books the time-sinks and headaches that are a real part of an administrator's job, such as: dealing with odd kinds of devices that Linux historically hasn't supported well, building multi-boot systems, and handling things like video and audio. The knowledge needed to install, deploy, and maintain Linux is not easily found, and no Linux distribution gets it just right. Scattered information can be found in a pile of man pages, texinfo files, and source code comments, but the best source of information is the experts themselves who built up a working knowledge of managing Linux systems. This cookbook's proven techniques distill years of hard-won experience into practical cut-and-paste solutions to everyday Linux dilemmas. Use just one recipe from this varied collection of real-world solutions, and the hours of tedious trial-and-error saved will more than pay for the cost of the book. But those who prefer to learn hands-on will find that this cookbook not only solves immediate problems quickly, it also cuts right to the chase pointing out potential pitfalls and illustrating tested practices that can be applied to a myriad of other situations. Whether you're responsible for a small Linux system, a huge corporate system, or a mixed Linux/Windows/MacOS network, you'll find valuable, to-the-point, practical recipes for dealing with Linux systems everyday. The

Linux Cookbook is more than a time-saver; it's a sanity saver. Over 80 recipes to effectively test your network and boost your career in security

About This Book Learn how to scan networks to find vulnerable computers and servers Hack into devices to control them, steal their data, and make them yours Target wireless networks, databases, and web servers, and password cracking to make the most of Kali Linux

Who This Book Is For If you are looking to expand your career into penetration testing, you will need a good understanding of Kali Linux and the variety of tools it includes. This book will work as a perfect guide for anyone who wants to have a practical approach in leveraging penetration testing mechanisms using Kali Linux

What You Will Learn Acquire the key skills of ethical hacking to perform penetration testing Learn how to perform network reconnaissance Discover vulnerabilities in hosts Attack vulnerabilities to take control of workstations and servers Understand password cracking to bypass security Learn how to hack into wireless networks Attack web and database servers to exfiltrate data Obfuscate your command and control connections to avoid firewall and IPS detection

In Detail Kali Linux is a Linux distribution designed for penetration testing and security auditing. It is the successor to BackTrack, the world's most popular penetration testing distribution. Kali Linux is the most widely used platform and toolkit for penetration testing. Security is currently the hottest field in technology with a projected need for millions of security professionals. This book focuses on enhancing your knowledge in Kali Linux for security by expanding your skills with toolkits and frameworks that can increase your value as a security professional.

Kali Linux Cookbook, Second Edition starts by helping you install Kali Linux on different options available. You will also be able to understand the lab architecture and install a Windows host for use in the lab. Next, you will understand the concept of vulnerability analysis and look at the different types of exploits. The book will introduce you to the concept and psychology of Social Engineering and password cracking. You will then be able to use these skills to expand the scope of any breaches you create. Finally, the book will guide you in exploiting specific technologies and gaining access to other systems in the environment. By the end of this book, you will have gained the core knowledge and concepts of the penetration testing process.

Style and approach This book teaches you everything you need to know about Kali Linux from the perspective of a penetration tester. It is filled with powerful recipes and practical examples that will help you gain in-depth knowledge of Kali Linux. Discover end-to-end penetration testing solutions to enhance your ethical hacking skills

Key Features Practical recipes to conduct effective penetration testing using the latest version of Kali Linux Leverage tools like Metasploit, Wireshark, Nmap, and more to detect vulnerabilities with ease Confidently perform networking and application attacks using task-oriented recipes

Book Description Many organizations have been affected by recent cyber events. At the current rate of hacking, it has become more important than ever to pentest your environment in order to ensure advanced-level security. This book is packed with practical recipes that will quickly get you started with Kali Linux (version 2018.4 / 2019), in addition to covering the core functionalities. The book will get you off to a strong start by introducing you to the installation and configuration of Kali Linux, which will help you to perform your tests. You will also learn how to plan attack strategies and perform web application exploitation using tools such as Burp and JexBoss. As you progress, you will get to grips with performing network exploitation using Metasploit, Sparta, and Wireshark. The book will also help

you delve into the technique of carrying out wireless and password attacks using tools such as Patator, John the Ripper, and airoscripting. Later chapters will draw focus to the wide range of tools that help in forensics investigations and incident response mechanisms. As you wrap up the concluding chapters, you will learn to create an optimum quality pentest report. By the end of this book, you will be equipped with the knowledge you need to conduct advanced penetration testing, thanks to the book's crisp and task-oriented recipes.

What you will learn

- Learn how to install, set up and customize Kali for pentesting on multiple platforms
- Pentest routers and embedded devices
- Get insights into fiddling around with software-defined radio
- Pwn and escalate through a corporate network
- Write good quality security reports
- Explore digital forensics and memory analysis with Kali Linux

Who this book is for

If you are an IT security professional, pentester, or security analyst who wants to conduct advanced penetration testing techniques, then this book is for you. Basic knowledge of Kali Linux is assumed.

Downloading the example code for this book

You can download the example code files for all Packt books you have purchased from your account at <http://www.PacktPub.com>. If you purchas ...

Over 40 recipes to help you set up and configure Linux networks

About This Book

Move beyond the basics of how a Linux machine works and gain a better understanding of Linux networks and their configuration

Impress your peers by setting up and configuring a Linux server and its various network elements like a pro

This is a hands-on solution guide to building, maintaining, and securing a network using Linux

Who This Book Is For

This book is targeted at Linux systems administrators who have a good basic understanding and some prior experience of how a Linux machine operates, but want to better understand how various network services function, how to set them up, and how to secure them. You should be familiar with how to set up a Linux server and how to install additional software on them.

What You Will Learn

- Route an IPv6 netblock to your local network
- Modify your named instance to support setting hostnames for your IPv6 addresses
- Use SSH for remote console access
- Configure NGINX with TLS
- Secure XMPP with TLS
- Leverage iptables6 to firewall your IPv6 traffic
- Configure Samba as an Active Directory compatible directory service

In Detail

Linux can be configured as a networked workstation, a DNS server, a mail server, a firewall, a gateway router, and many other things. These are all part of administration tasks, hence network administration is one of the main tasks of Linux system administration. By knowing how to configure system network interfaces in a reliable and optimal manner, Linux administrators can deploy and configure several network services including file, web, mail, and servers while working in large enterprise environments. Starting with a simple Linux router that passes traffic between two private networks, you will see how to enable NAT on the router in order to allow Internet access from the network, and will also enable DHCP on the network to ease configuration of client systems. You will then move on to configuring your own DNS server on your local network using bind9 and tying it into your DHCP server to allow automatic configuration of local hostnames. You will then future enable your network by setting up IPv6 via tunnel providers. Moving on, we'll configure Samba to centralize authentication for your network services; we will also configure Linux client to leverage it for authentication, and set up a RADIUS server that uses the directory server for authentication. Toward the end, you will have a network with a number of services running on it, and will implement monitoring in order to detect problems as they occur.

Style and approach

This book is packed with

practical recipes and a task-based approach that will walk you through building, maintaining, and securing a computer network using Linux. Explore the latest ethical hacking tools and techniques to perform penetration testing from scratch Purchase of the print or Kindle book includes a free eBook in the PDF format Key Features Learn to compromise enterprise networks with Kali Linux Gain comprehensive insights into security concepts using advanced real-life hacker techniques Use Kali Linux in the same way ethical hackers and penetration testers do to gain control of your environment Book Description Kali Linux is the most popular and advanced penetration testing Linux distribution within the cybersecurity industry. Using Kali Linux, a cybersecurity professional will be able to discover and exploit various vulnerabilities and perform advanced penetration testing on both enterprise wired and wireless networks. This book is a comprehensive guide for those who are new to Kali Linux and penetration testing that will have you up to speed in no time. Using real-world scenarios, you'll understand how to set up a lab and explore core penetration testing concepts. Throughout this book, you'll focus on information gathering and even discover different vulnerability assessment tools bundled in Kali Linux. You'll learn to discover target systems on a network, identify security flaws on devices, exploit security weaknesses and gain access to networks, set up Command and Control (C2) operations, and perform web application penetration testing. In this updated second edition, you'll be able to compromise Active Directory and exploit enterprise networks. Finally, this book covers best practices for performing complex web penetration testing techniques in a highly secured environment. By the end of this Kali Linux book, you'll have gained the skills to perform advanced penetration testing on enterprise networks using Kali Linux. What you will learn Explore the fundamentals of ethical hacking Understand how to install and configure Kali Linux Perform asset and network discovery techniques Focus on how to perform vulnerability assessments Exploit the trust in Active Directory domain services Perform advanced exploitation with Command and Control (C2) techniques Implement advanced wireless hacking techniques Become well-versed with exploiting vulnerable web applications Who this book is for This pentesting book is for students, trainers, cybersecurity professionals, cyber enthusiasts, network security professionals, ethical hackers, penetration testers, and security engineers. If you do not have any prior knowledge and are looking to become an expert in penetration testing using the Kali Linux operating system (OS), then this book is for you. This handy cookbook teaches new-to-intermediate Linux users the essential skills necessary to manage a home or small business network. The recipes in this book are updated to cover new technologies such as systemctl, firewalld, modern package managers, the Raspberry Pi, and connecting Android and iOS devices to your network. You'll learn how to install, maintain, and troubleshoot a Linux system, add and remove software, manage filesystems, run backups and restores, manage name services, securely connect to remote systems, partition storage devices, build a LAN gateway on Raspberry Pi, and more: all the fundamental tasks you'll need to run and maintain a Linux system. Carla Schroder, author of over a thousand Linux how-tos for various publications, as well as the Networking Cookbook and the Book of Audacity, teaches the solid Linux foundations you need to build and run your network. How do you multiboot? Or troubleshoot software, hardware, and network issues? Each recipe addresses a specific problem and includes a discussion that explains the solution and provides insight into how it works. Learn how the Linux ecosystem is structured

Enable smartphones and tablets to safely connect to your LAN Manage fundamental subsystems and essential tasks Secure remote access and build a firewall/internet gateway Manage users and groups, and filesystems and partitions Rescue nonbooting systems Manage name services and the Dynamic Host Configuration Protocol (DHCP) 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 necessary to understand the concepts covered in this book. Over 100 practical recipes that leverage custom scripts and integrated tools in Kali Linux to help you effectively master network scanning

About This Book* Learn the fundamentals behind commonly used scanning techniques* Deploy powerful scanning tools that are integrated into the Kali Linux testing platform* The practical recipes will help you automate menial tasks and build your own script library

Who This Book Is For This book is for information security professionals and casual security enthusiasts alike. It provides foundational principles if you're a novice, but will also introduce scripting techniques and in-depth analysis if you're more advanced. Whether you are brand new to Kali Linux or a seasoned veteran, this book will help you both understand and ultimately master many of the most powerful and useful scanning techniques in the industry. It is assumed that you have some basic security testing experience.

What You Will Learn* Develop a network-testing environment to test scanning tools and techniques* Understand the

principles of network-scanning tools by building scripts and tools* Identify distinct vulnerabilities in web apps and remote services and learn how they are exploited* Perform comprehensive scans to identify listening on TCP and UDP sockets* Get started with different Kali desktop environments--KDE, MATE, LXDE, and Xfce* Use Sparta for information gathering, port scanning, fingerprinting, vulnerability scanning, and more* Evaluate DoS threats and learn how common DoS attacks are performed* Learn how to use Burp Suite to evaluate web applications

In Detail

With the ever-increasing amount of data flowing in today's world, information security has become vital to any application. This is where Kali Linux comes in. Kali Linux focuses mainly on security auditing and penetration testing. This step-by-step cookbook on network scanning trains you in important scanning concepts based on version 2016.2. It will enable you to conquer any network environment through a range of network scanning techniques and will also equip you to script your very own tools. Starting with the fundamentals of installing and managing Kali Linux, this book will help you map your target with a wide range of network scanning tasks, including discovery, port scanning, fingerprinting, and more. You will learn how to utilize the arsenal of tools available in Kali Linux to conquer any network environment. The book offers expanded coverage of the popular Burp Suite and has new and updated scripts for automating scanning and target exploitation. You will also be shown how to identify remote services, how to assess security risks, and how various attacks are performed. You will cover the latest features of Kali Linux 2016.2, which includes the enhanced Sparta tool and many other exciting updates. This immersive guide will also encourage the creation of personally scripted tools and the skills required to create them.

Style and approach

This step-by-step guide is full of recipes that will help you use integrated scanning tools in Kali Linux and develop custom scripts to make new and unique tools of your own. Master the complexities of Bash shell scripting and unlock the power of shell for your enterprise

Key Features

- Identify high-level steps such as verifying user input
- Using the command line and conditional statements in creating/executing simple shell scripts
- Create and edit dynamic shell scripts to manage complex and repetitive tasks
- Leverage the command-line to bypass GUI and automate common tasks

Book Description

In this book, you'll discover everything you need to know to master shell scripting and make informed choices about the elements you employ. Grab your favorite editor and start writing your best Bash scripts step by step. Get to grips with the fundamentals of creating and running a script in normal mode, and in debug mode. Learn about various conditional statements' code snippets, and realize the power of repetition and loops in your shell script. You will also learn to write complex shell scripts. This book will also deep dive into file system administration, directories, and system administration like networking, process management, user authentications, and package installation and regular expressions. Towards the end of the book, you will learn how to use Python as a BASH Scripting alternative. By the end of this book, you will know shell scripts at the snap of your fingers and will be able to automate and communicate with your system with keyboard expressions. What you will learn

- Make, execute, and debug your first Bash script
- Create interactive scripts that prompt for user input
- Foster menu structures for operators with little command-line experience
- Develop scripts that dynamically edit web configuration files to produce a new virtual host
- Write scripts that use AWK to search and reports on log files
- Draft effective scripts using functions as building blocks, reducing maintenance and build time
- Make

informed choices by comparing different script languages such as Python with BASH Who this book is for If you are a Linux administrator or a system administrator and are interested in automating tasks in your daily lives, saving time and effort, this book is for you. Basic shell scripting and command-line experience will be required. Familiarity with the tasks you need to automate will be helpful. O'Reilly's Pocket Guides have earned a reputation as inexpensive, comprehensive, and compact guides that have the stuff but not the fluff. Every page of Linux Pocket Guide lives up to this billing. It clearly explains how to get up to speed quickly on day-to-day Linux use. Once you're up and running, Linux Pocket Guide provides an easy-to-use reference that you can keep by your keyboard for those times when you want a fast, useful answer, not hours in the man pages. Linux Pocket Guide is organized the way you use Linux: by function, not just alphabetically. It's not the 'bible of Linux'; it's a practical and concise guide to the options and commands you need most. It starts with general concepts like files and directories, the shell, and X windows, and then presents detailed overviews of the most essential commands, with clear examples. You'll learn each command's purpose, usage, options, location on disk, and even the RPM package that installed it. The Linux Pocket Guide is tailored to Fedora Linux--the latest spin-off of Red Hat Linux--but most of the information applies to any Linux system. Throw in a host of valuable power user tips and a friendly and accessible style, and you'll quickly find this practical, to-the-point book a small but mighty resource for Linux users. Over 79 hands-on recipes for professional embedded Linux developers to optimize and boost their Yocto Project know-how Key Features Optimize your Yocto setup to speed up development and debug build issues Use what is quickly becoming the standard embedded Linux product builder framework—the Yocto Project Recipe-based implementation of best practices to optimize your Linux system Book Description The Yocto Project has become the de facto distribution build framework for reliable and robust embedded systems with a reduced time to market. You'll get started by working on a build system where you set up Yocto, create a build directory, and learn how to debug it. Then, you'll explore everything about the BSP layer, from creating a custom layer to debugging device tree issues. In addition to this, you'll learn how to add a new software layer, packages, data, scripts, and configuration files to your system. You will then cover topics based on application development, such as using the Software Development Kit and how to use the Yocto project in various development environments. Toward the end, you will learn how to debug, trace, and profile a running system. This second edition has been updated to include new content based on the latest Yocto release. What you will learn Optimize your Yocto Project setup to speed up development and debug build issues Use Docker containers to build Yocto Project-based systems Take advantage of the user-friendly Toaster web interface to the Yocto Project build system Build and debug the Linux kernel and its device trees Customize your root filesystem with already-supported and new Yocto packages Optimize your production systems by reducing the size of both the Linux kernel and root filesystems Explore the mechanisms to increase the root filesystem security Understand the open source licensing requirements and how to comply with them when cohabiting with proprietary programs Create recipes, and build and run applications in C, C++, Python, Node.js, and Java Who this book is for If you are an embedded Linux developer with the basic knowledge of Yocto Project, this book is an ideal way to broaden your knowledge with recipes for embedded development. The shell remains one of the

most powerful tools on a computer system - yet a large number of users are unaware of how much one can accomplish with it. Using a combination of simple commands, we will see how to solve complex problems in day to day computer usage. **Linux Shell Scripting Cookbook, Second Edition** will take you through useful real-world recipes designed to make your daily life easy when working with the shell. The book shows the reader how to effectively use the shell to accomplish complex tasks with ease. The book discusses basics of using the shell, general commands and proceeds to show the reader how to use them to perform complex tasks with ease. Starting with the basics of the shell, we will learn simple commands with their usages allowing us to perform operations on files of different kind. The book then proceeds to explain text processing, web interaction and concludes with backups, monitoring and other sysadmin tasks. **Linux Shell Scripting Cookbook, Second Edition** serves as an excellent guide to solving day to day problems using the shell and few powerful commands together to create solutions.

Approach This book is written in cookbook style and it offers learning through recipes with examples and illustrations. Each recipe contains step-by-step instructions about everything necessary to execute a particular task. The book is designed so that you can read it from start to end for beginner's or just open up any chapter and start following the recipes as a reference for advanced users.

Who this book is for This book is both for the casual GNU/Linux users who want to do amazing things with the shell, and for advanced users looking for ways to make their lives with the shell more productive. You can start writing scripts and one-liners by simply looking at the similar recipe and its descriptions without any working knowledge of shell scripting or Linux.

Intermediate/advanced users as well as system administrators/ developers and programmers can use this book as a reference when they face problems while coding.

Discover the most common web vulnerabilities and prevent them from becoming a threat to your site's security

Key Features

- Familiarize yourself with the most common web vulnerabilities
- Conduct a preliminary assessment of attack surfaces and run exploits in your lab
- Explore new tools in the Kali Linux ecosystem for web penetration testing

Book Description Web applications are a huge point of attack for malicious hackers and a critical area for security professionals and penetration testers to lock down and secure. Kali Linux is a Linux-based penetration testing platform that provides a broad array of testing tools, many of which can be used to execute web penetration testing.

Kali Linux Web Penetration Testing Cookbook gives you the skills you need to cover every stage of a penetration test - from gathering information about the system and application, to identifying vulnerabilities through manual testing. You will also cover the use of vulnerability scanners and look at basic and advanced exploitation techniques that may lead to a full system compromise. You will start by setting up a testing laboratory, exploring the latest features of tools included in Kali Linux and performing a wide range of tasks with OWASP ZAP, Burp Suite and other web proxies and security testing tools. As you make your way through the book, you will learn how to use automated scanners to find security flaws in web applications and understand how to bypass basic security controls. In the concluding chapters, you will look at what you have learned in the context of the Open Web Application Security Project (OWASP) and the top 10 web application vulnerabilities you are most likely to encounter, equipping you with the ability to combat them effectively. By the end of this book, you will have acquired the skills you need to identify, exploit, and prevent web application vulnerabilities.

What you will learn

- Set up a

secure penetration testing laboratory Use proxies, crawlers, and spiders to investigate an entire website Identify cross-site scripting and client-side vulnerabilities Exploit vulnerabilities that allow the insertion of code into web applications Exploit vulnerabilities that require complex setups Improve testing efficiency using automated vulnerability scanners Learn how to circumvent security controls put in place to prevent attacks Who this book is for Kali Linux Web Penetration Testing Cookbook is for IT professionals, web developers, security enthusiasts, and security professionals who want an accessible reference on how to find, exploit, and prevent security vulnerabilities in web applications. The basics of operating a Linux environment and prior exposure to security technologies and tools are necessary. Whether you're just starting out with Linux or looking to hone your existing skills, this book will provide you with the knowledge you need. Discover end-to-end penetration testing solutions to enhance your ethical hacking skills Key Features Practical recipes to conduct effective penetration testing using the latest version of Kali Linux Leverage tools like Metasploit, Wireshark, Nmap, and more to detect vulnerabilities with ease Confidently perform networking and application attacks using task-oriented recipes Book Description Many organizations have been affected by recent cyber events. At the current rate of hacking, it has become more important than ever to pentest your environment in order to ensure advanced-level security. This book is packed with practical recipes that will quickly get you started with Kali Linux (version 2018.4 / 2019), in addition to covering the core functionalities. The book will get you off to a strong start by introducing you to the installation and configuration of Kali Linux, which will help you to perform your tests. You will also learn how to plan attack strategies and perform web application exploitation using tools such as Burp and JexBoss. As you progress, you will get to grips with performing network exploitation using Metasploit, Sparta, and Wireshark. The book will also help you delve into the technique of carrying out wireless and password attacks using tools such as Patator, John the Ripper, and airoscript-ng. Later chapters will draw focus to the wide range of tools that help in forensics investigations and incident response mechanisms. As you wrap up the concluding chapters, you will learn to create an optimum quality pentest report. By the end of this book, you will be equipped with the knowledge you need to conduct advanced penetration testing, thanks to the book's crisp and task-oriented recipes. What you will learn Learn how to install, set up and customize Kali for pentesting on multiple platforms Pentest routers and embedded devices Get insights into fiddling around with software-defined radio Pwn and escalate through a corporate network Write good quality security reports Explore digital forensics and memory analysis with Kali Linux Who this book is for If you are an IT security professional, pentester, or security analyst who wants to conduct advanced penetration testing techniques, then this book is for you. Basic knowledge of Kali Linux is assumed. Provides step-by-step instructions on how to use the computer operating system Linux. 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. Over 90 practical and exciting

recipes that leverage the power of OpenVPN 2.4 to obtain a reliable and secure VPN

About This Book* Master the skills of configuring, managing, and securing your VPN using the latest OpenVPN* Gain expertise in establishing IPv6 connections and understand PolarSSL using the latest version of OpenVPN* This book contains enticing recipes about OpenVPN functionalities that cater to mission critical applications

Who This Book Is For This book is for system administrators who have a basic knowledge of OpenVPN and are eagerly waiting to build, secure, and manage VPNs using the latest version. This book assumes some prior knowledge of TCP/IP networking and OpenVPN and you must have network administration skills to get the most out of this book.

What You Will Learn* Determine the best type of OpenVPN setup for your networking needs* Get to grips with the encryption, authentication, and certifications features of OpenSSL* Integrate an OpenVPN server into the local IT infrastructure with the scripting features of OpenVPN* Ease the integration of Windows clients into the VPN using Windows-specific client-side configuration* Understand the authentication plugins for PAM and LDAP* Get to know the difference between TUN-style and TAP-style networks and when to use what* Troubleshoot your VPN setup* Establish a connection via IPv6 along with demonstrations

In Detail OpenVPN provides an extensible VPN framework that has been designed to ease site-specific customization, such as providing the capability to distribute a customized installation package to clients, and supporting alternative authentication methods via OpenVPN's plugin module interface. This is an update to OpenVPN 2 Cookbook and is based on OpenVPN 2.4. This book provides you with many different recipes to help you set up, monitor, and troubleshoot an OpenVPN network. You will learn to configure a scalable, load-balanced VPN server farm that can handle thousands of dynamic connections from incoming VPN clients. You will also get to grips with the encryption, authentication, security, extensibility, and certifications features of OpenSSL. You will also get an understanding of IPv6 support and will get a demonstration of how to establish a connection via IPv6. This book will explore all the advanced features of OpenVPN and even some undocumented options, covering all the common network setups such as point-to-point networks and multi-client TUN-style and TAP-style networks. Finally, you will learn to manage, secure, and troubleshoot your virtual private networks using OpenVPN 2.4.

Computer security is an ongoing process, a relentless contest between system administrators and intruders. A good administrator needs to stay one step ahead of any adversaries, which often involves a continuing process of education. If you're grounded in the basics of security, however, you won't necessarily want a complete treatise on the subject each time you pick up a book. Sometimes you want to get straight to the point. That's exactly what the new Linux Security Cookbook does. Rather than provide a total security solution for Linux computers, the authors present a series of easy-to-follow recipes--short, focused pieces of code that administrators can use to improve security and perform common tasks securely. The Linux Security Cookbook includes real solutions to a wide range of targeted problems, such as sending encrypted email within Emacs, restricting access to network services at particular times of day, firewalling a webserver, preventing IP spoofing, setting up key-based SSH authentication, and much more. With over 150 ready-to-use scripts and configuration files, this unique book helps administrators secure their systems without having to look up specific syntax. The book begins with recipes devised to establish a secure system, then moves on to secure

day-to-day practices, and concludes with techniques to help your system stay secure. Some of the "recipes" you'll find in this book are:

- Controlling access to your system from firewalls down to individual services, using iptables, ipchains, xinetd, inetd, and more
- Monitoring your network with tcpdump, dsniff, netstat, and other tools
- Protecting network connections with Secure Shell (SSH) and stunnel
- Safeguarding email sessions with Secure Sockets Layer (SSL)
- Encrypting files and email messages with GnuPG
- Probing your own security with password crackers, nmap, and handy scripts

This cookbook's proven techniques are derived from hard-won experience. Whether you're responsible for security on a home Linux system or for a large corporation, or somewhere in between, you'll find valuable, to-the-point, practical recipes for dealing with everyday security issues. This book is a system saver. Discover practical solutions for a wide range of real-world network programming tasks

About This Book Solve real-world tasks in the area of network programming, system/networking administration, network monitoring, and more. Familiarize yourself with the fundamentals and functionalities of SDN

Improve your skills to become the next-gen network engineer by learning the various facets of Python programming

Who This Book Is For This book is for network engineers, system/network administrators, network programmers, and even web application developers who want to solve everyday network-related problems. If you are a novice, you will develop an understanding of the concepts as you progress with this book.

What You Will Learn

- Develop TCP/IP networking client/server applications
- Administer local machines' IPv4/IPv6 network interfaces
- Write multi-purpose efficient web clients for HTTP and HTTPS protocols
- Perform remote system administration tasks over Telnet and SSH connections
- Interact with popular websites via web services such as XML-RPC, SOAP, and REST APIs
- Monitor and analyze major common network security vulnerabilities
- Develop Software-Defined Networks with Ryu, OpenDaylight, Floodlight, ONOS, and POX Controllers
- Emulate simple and complex networks with Mininet and its extensions for network and systems emulations
- Learn to configure and build network systems and Virtual Network Functions (VNF) in heterogeneous deployment environments
- Explore various Python modules to program the Internet

In Detail Python Network Programming Cookbook - Second Edition highlights the major aspects of network programming in Python, starting from writing simple networking clients to developing and deploying complex Software-Defined Networking (SDN) and Network Functions Virtualization (NFV) systems. It creates the building blocks for many practical web and networking applications that rely on various networking protocols. It presents the power and beauty of Python to solve numerous real-world tasks in the area of network programming, network and system administration, network monitoring, and web-application development. In this edition, you will also be introduced to network modelling to build your own cloud network. You will learn about the concepts and fundamentals of SDN and then extend your network with Mininet. Next, you'll find recipes on Authentication, Authorization, and Accounting (AAA) and open and proprietary SDN approaches and frameworks. You will also learn to configure the Linux Foundation networking ecosystem and deploy and automate your networks with Python in the cloud and the Internet scale. By the end of this book, you will be able to analyze your network security vulnerabilities using advanced network packet capture and analysis techniques.

Style and approach This book follows a practical approach and covers major aspects of network programming in Python. It provides hands-on

recipes combined with short and concise explanations on code snippets. This book will serve as a supplementary material to develop hands-on skills in any academic course on network programming. This book further elaborates network softwarization, including Software-Defined Networking (SDN), Network Functions Virtualization (NFV), and orchestration. We learn to configure and deploy enterprise network platforms, develop applications on top of them with Python. This unique and valuable collection of tips, tools, and scripts provides clear, concise, hands-on solutions that can be applied to the challenges facing anyone running a network of Linux servers from small networks to large data centers in the practical and popular problem-solution-discussion O'Reilly cookbook format. The Linux Cookbook covers everything you'd expect: backups, new users, and the like. But it also covers the non-obvious information that is often ignored in other books the time-sinks and headaches that are a real part of an administrator's job, such as: dealing with odd kinds of devices that Linux historically hasn't supported well, building multi-boot systems, and handling things like video and audio. The knowledge needed to install, deploy, and maintain Linux is not easily found, and no Linux distribution gets it just right. Scattered information can be found in a pile of man pages, texinfo files, and source code comments, but the best source of information is the experts themselves who built up a working knowledge of managing Linux systems. This cookbook's proven techniques distill years of hard-won experience into practical cut-and-paste solutions to everyday Linux dilemmas. Use just one recipe from this varied collection of real-world solutions, and the hours of tedious trial-and-error saved will more than pay for the cost of the book. But those who prefer to learn hands-on will find that this cookbook not only solves immediate problems quickly, it also cuts right to the chase pointing out potential pitfalls and illustrating tested practices that can be applied to a myriad of other situations. Whether you're responsible for a small Linux system, a huge corporate system, or a mixed Linux/Windows/MacOS network, you'll find valuable, to-the-point, practical recipes for dealing with Linux systems everyday. The Linux Cookbook is more than a time-saver; it's a sanity saver. 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. Downloading the example code for this book You can download the example code fi ...

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