Pfsense 2 0 And Beyond Bsdcan 09

The Complete Guide to FreeBSD
PfSense Essentials: The Complete Reference to the PfSense Internet Gateway and Firewall
Building Enterprise Firewalls with Open Source
Attack Detection and Response with iptables, psad, and fwsnort
Infrastructure as Code (IAC) Cookbook
PfSense.org
Red Team Field Manual
The Definitive Guide of the PfSense Open Source Firewall and Router Distribution
Protect your network and enterprise against advanced cybersecurity attacks and threats
Book of PF, 3rd Edition
The Practice of System and Network Administration
Mastering Proxmox
Learn pfSense 2.4
Get up and running with Pfsense and all the core concepts to build firewall and routing solutions
Infrastructure and Application Performance Monitoring
Building Internet Firewalls
Building Secure Systems in Untrusted Networks
Ethical Hacking
Getting Started with the Feature Pack for OSGi Applications and JPA 2.0
Beginner's Guide
The Hands-On Guide to Dissecting Malicious Software
Hands-On Penetration Testing on Windows
Electric Machines
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Internet and Web Security
Prometheus: Up & Running
FreeBSD Handbook
Volume 1: DevOps and other Best Practices for Enterprise IT
Linux Firewalls
Proceedings of International Conference on ICRIHE - 2020, Delhi, India: IICT-2020
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Build and Integrate Virtual Private Networks Using OpenVPN
A No-Nonsense Guide to the OpenBSD Firewall

MARITZA RIVERA

The Complete Guide to FreeBSD Addison-Wesley Professional
Master building and integrating secure private networks using OpenVPN About This Book Discover how to configure and set up a secure OpenVPN Enhance user experience by using multiple authentication methods Delve into better reporting, monitoring, logging, and control with OpenVPN Who This Book Is For If you are familiar with TCP/IP networking and general system administration, then this book is ideal for you. Some knowledge and understanding of core elements and applications related to Virtual Private Networking is assumed. What You Will Learn Identify different VPN protocols (IPSec, PPTP, OpenVPN) Build your own PKI and manage certificates Deploy your VPN on various devices like PCs, mobile phones, tablets, and more Differentiate between the routed and bridged network Enhance your VPN with monitoring and logging Authenticate against third-party databases like LDAP or the Unix password file Troubleshoot an OpenVPN setup that is not performing correctly In Detail Security on the internet is increasingly vital to both businesses and individuals. Encrypting network traffic using Virtual Private Networks is one method to enhance security. The internet, corporate, and “free internet” networks grow more hostile every day. OpenVPN, the most widely used open source VPN package, allows you to create a secure network across these systems, keeping your private data secure. The main advantage of using OpenVPN is its portability, which allows it to be embedded into several systems. This book is an advanced guide that will help you build secure Virtual Private Networks using OpenVPN. You will begin your journey with an exploration of OpenVPN, while discussing its modes of operation, its clients, its secret keys, and their format types. You will explore PKI: its setting up and working, PAM authentication, and MTU troubleshooting. Next, client-server mode is discussed, the most commonly used deployment model, and you will learn about the two modes of operation using "tun" and "tap" devices. The book then progresses to more advanced concepts, such as deployment scenarios in tun devices which will include integration with back-end authentication, and securing your OpenVPN server using iptables, scripting, plugins, and using OpenVPN on mobile devices and networks. Finally, you will discover the strengths and weaknesses of the current OpenVPN implementation, understand the future directions of OpenVPN, and delve into the troubleshooting techniques for OpenVPN. By the end of the book, you will be able to build secure private networks across the internet and hostile networks with confidence. Style and approach An easy-to-follow yet comprehensive guide to building secure Virtual Private Networks using OpenVPN. A progressively complex VPN design is developed with the help of examples. More advanced topics are covered in each chapter, with subjects grouped according to their complexity, as well as their utility.
PfSense Essentials: The Complete Reference to the PfSense Internet Gateway and Firewall No Starch Press
Install and configure a pfSense router/firewall, and become a pfSense expert in the process. Key Features You can always do more to secure your software - so extend and customize your pfSense firewall Build a high availability security system that's fault-tolerant - and capable of blocking potential threats Put the principles of better security into practice by implementing examples provided in the text Book Description pfSense has the same reliability and stability as even the most popular commercial firewall offerings on the market - but, like the very best open-source software, it doesn't limit you. You're in control - you can exploit and customize pfSense around your security needs. Mastering pfSense - Second Edition, covers features that have long been part of pfSense such as captive portal, VLANs, traffic shaping, VPNs, load balancing, Common Address Redundancy Protocol (CARP), multi-WAN, and routing. It also covers features that have been added with the release of 2.4, such as support for ZFS partitions and OpenVPN 2.4. This book takes into account the fact that, in order to support increased cryptographic loads, pfSense version 2.5 will require a CPU that supports AES-NI. The second edition of this book places more of an emphasis on the practical side of utilizing pfSense than the previous edition, and, as a result, more examples are provided which show in step-by-step fashion how to implement many features. What you will learn Configure pfSense services such as DHCP, Dynamic DNS, captive portal, DNS, NTP and SNMP Set up a managed switch to work with VLANs Use pfSense to allow, block and deny traffic, and to implement Network Address Translation (NAT) Make use of the traffic shaper to lower and raise the priority of certain types of traffic Set up and connect to a VPN tunnel with pfSense Incorporate redundancy and high availability by utilizing load balancing and the Common Address Redundancy Protocol (CARP) Explore diagnostic tools in pfSense to solve network problems Who this book is for This book is for those with at least an intermediate understanding of networking. Prior knowledge of pfSense would be helpful but is not required. Those who have the resources to set up a pfSense firewall, either in a real or virtual environment, will especially benefit, as they will be able to follow along with the examples in the book.
Building Enterprise Firewalls with Open Source No Starch Press
A practical handbook for network adminstrators who need to develop and implement security assessment programs, exploring a variety of offensive technologies, explaining how to design and deploy networks that are immune to offensive tools and scripts, and detailing an efficient testing model. Original. (Intermediate)
Attack Detection and Response with iptables, psad, and fwsnort "O'Reilly Media, Inc."
Written in an easy-to-follow approach using hands-on examples, this book helps you create virtual environments for advanced penetration testing, enabling you to build a multi-layered architecture to include firewalls, IDS/IPS, web application firewalls, and endpoint protection, which is essential in the penetration testing world.If you are a penetration tester, security consultant, security test engineer, or analyst who wants to practice and perfect penetration testing skills by building virtual pentesting labs in varying industry scenarios, this is the book for you. This book is ideal if you want to build and enhance your existing pentesting methods and skills. Basic knowledge of network security features is expected along with web application testing experience.

Infrastructure as Code (IAC) Cookbook Packt Publishing Ltd
This book presents the peer-reviewed proceedings of the 5th International Conference on Intelligent Computing and Applications (ICICA 2019), held in Ghaziabad, India, on December 6–8, 2019. The contributions reflect the latest research on advanced computational methodologies such as neural networks, fuzzy systems, evolutionary algorithms, hybrid intelligent systems, uncertain reasoning techniques, and other machine learning methods and their applications to decision-making and problem-solving in mobile and wireless communication networks.
PfSense.org "O'Reilly Media, Inc."
Simple packet filters are becoming a thing of the past. Even the open-source domain is moving towards Next-Generation Firewalls. And OPNsense is a top player when it comes to intrusion detection, application control, web filtering, and anti-virus. No network is too insignificant to be spared by an attacker. Even home networks, washing machines, and smartwatches are threatened and require a secure environment. Firewalls are a component of the security concept. They protect against known and new threats to computers and networks. A firewall offers the highest level of protection if its functions are known, its operation is simple, and it is ideally positioned in the surrounding infrastructure. OPNsense accepts the challenge and meets these criteria in different ways. This book is the ideal companion for understanding, installing and setting up an OPNsense firewall. Each chapter explains a real-world situation, describes the theoretical fundamentals, and presents a laboratory experiment for better understanding. Finally, it offers a solution using OPNsense methods and knowledge from a technical background. The chapters are mostly independent of each other, but presented with increasing levels of proficiency. Thus, the topics dealt with are appropriate for beginners to professionals.
Red Team Field Manual No Starch Press
This text contains sufficient material for a single semester core course in electric machines and energy conversion, while allowing some selectivity among the topics covered by the latter sections of Chapters 3-7 depending on a school's curriculum. The text can work for either a course in energy design principles and analysis with an optional design project, or for a capstone design course that follows an introductory course in energy device principles. A unique feature of "Electric Machines: Analysis and Design Applying MATLAB" is its integration of the popular interactive computer software MATLAB to handle the tedious calculations arising in electric machine analysis. As a result, more exact models of devices can be retained for analysis rather than the approximate models commonly introduced for the sake of computational simplicity.
The Definitive Guide of the PfSense Open Source Firewall and Router Distribution Createspace Independent Publishing Platform
Malware analysis is big business, and attacks can cost a company dearly. When malware breaches your defenses, you need to act quickly to cure current infections and prevent future ones from occurring. For those who want to stay ahead of the latest malware, Practical Malware Analysis will teach you the tools and techniques used by professional analysts. With this book as your guide, you'll be able to safely analyze, debug, and disassemble any malicious software that comes your way. You'll learn how to: –Set up a safe virtual environment to analyze malware –Quickly extract network signatures and host-based indicators –Use key analysis tools like IDA Pro, OllyDbg, and WinDbg –Overcome malware tricks like obfuscation, anti-disassembly, anti-debugging, and anti-virtual machine techniques –Use your newfound knowledge of Windows internals for malware analysis –Develop a methodology for unpacking malware and get practical experience with five of the most popular packers –Analyze special cases of malware with shellcode, C++, and 64-bit code Hands-on labs throughout the book challenge you to practice and synthesize your skills as you dissect real malware samples, and pages of detailed dissections offer an over-the-shoulder look at how the pros do it. You'll learn how to crack open malware to see how it really works, determine what damage it has done, thoroughly clean your network, and ensure that the malware never comes back. Malware analysis is a cat-and-mouse game with rules that are constantly changing, so make sure you have the fundamentals. Whether you're tasked with securing one network or a thousand networks, or you're making a living as a malware analyst, you'll find what you need to succeed in Practical Malware Analysis.
Protect your network and enterprise against advanced cybersecurity attacks and threats Packt Publishing Ltd
OpenBSD’s stateful packet filter, PF, is the heart of the OpenBSD firewall. With more and more services placing high demands on bandwidth and an increasingly hostile Internet environment, no sysadmin can afford to be without PF expertise. The third edition of The Book of PF covers the most up-to-date developments in PF, including new content on IPv6, dual stack configurations, the “queues and priorities” traffic-shaping system, NAT and redirection, wireless networking, spam fighting, failover provisioning, logging, and more. You’ll also learn how to: * Create rule sets for all kinds of network traffic, whether crossing a simple LAN, hiding behind NAT, traversing DMZs, or spanning bridges or wider networks * Set up wireless networks with access points, and lock them down using authpf and special access restrictions * Maximize flexibility and service availability via CARP, relayd, and redirection * Build adaptive firewalls to proactively defend against attackers and spammers * Harness OpenBSD’s latest traffic-shaping system to keep your network responsive, and convert your existing ALTQ configurations to the new system * Stay in control of your traffic with monitoring and visualization tools (including NetFlow) The Book of PF is the essential guide to building a secure network with PF. With a little effort and this book, you’ll be well prepared to unlock PF’s full potential.
Book of PF, 3rd Edition No Starch Press
This book is full of practical code examples aimed at a beginner to ease his or her learning curve.This book is written for IT professionals and enthusiasts who are interested in quickly getting a powerful telephony system up and running using the free and open source application, FreeSWITCH.Telephony experience will be helpful, but not required.
The Practice of System and Network Administration Walnut Creek CDROM
A hands-on guide to hacking computer systems from the ground up, from capturing traffic to crafting sneaky, successful trojans. A crash course in modern hacking techniques, Ethical Hacking is already being used to prepare the next generation of offensive security experts. In its many hands-on labs, you’ll explore crucial skills for any aspiring penetration tester, security researcher, or malware analyst. You’ll begin with the basics: capturing a victim’s network traffic with an ARP spoofing attack and then viewing it in Wireshark. From there, you’ll deploy reverse shells that let you remotely run commands on a victim’s computer, encrypt files by writing your own ransomware in Python, and fake emails like the ones used in phishing attacks. In advanced chapters, you’ll learn

how to fuzz for new vulnerabilities, craft trojans and rootkits, exploit websites with SQL injection, and escalate your privileges to extract credentials, which you'll use to traverse a private network. You'll work with a wide range of professional penetration testing tools—and learn to write your own tools in Python—as you practice tasks like: • Deploying the Metasploit framework's reverse shells and embedding them in innocent-seeming files • Capturing passwords in a corporate Windows network using Mimikatz • Scanning (almost) every device on the internet to find potential victims • Installing Linux rootkits that modify a victim's operating system • Performing advanced Cross-Site Scripting (XSS) attacks that execute sophisticated JavaScript payloads Along the way, you'll gain a foundation in the relevant computing technologies. Discover how advanced fuzzers work behind the scenes, learn how internet traffic gets encrypted, explore the inner mechanisms of nation-state malware like Drovorub, and much more. Developed with feedback from cybersecurity students, Ethical Hacking addresses contemporary issues in the field not often covered in other books and will prepare you for a career in penetration testing. Most importantly, you'll be able to think like an ethical hacker: someone who can carefully analyze systems and creatively gain access to them.

Mastering Proxmox Packt Publishing Ltd

Over 90 practical, actionable recipes to automate, test, and manage your infrastructure quickly and effectively About This Book Bring down your delivery timeline from days to hours by treating your server configurations and VMs as code, just like you would with software code. Take your existing knowledge and skill set with your existing tools (Puppet, Chef, or Docker) to the next level and solve IT infrastructure challenges. Use practical recipes to use code to provision and deploy servers and applications and have greater control of your infrastructure. Who This Book Is For This book is for DevOps engineers and developers working in cross-functional teams or operations and would now switch to IAC to manage complex infrastructures. What You Will Learn Provision local and remote development environments with Vagrant Automate production infrastructures with Terraform, Ansible and Cloud-init on AWS, OpenStack, Google Cloud, Digital Ocean, and more Manage and test automated systems using Chef and Puppet Build, ship, and debug optimized Docker containers Explore the best practices to automate and test everything from cloud infrastructures to operating system configuration In Detail Infrastructure as Code (IAC) is a key aspect of the DevOps movement, and this book will show you how to transform the way you work with your infrastructure—by treating it as software. This book is dedicated to helping you discover the essentials of infrastructure automation and its related practices; the over 90 organized practical solutions will demonstrate how to work with some of the very best tools and cloud solutions. You will learn how to deploy repeatable infrastructures and services on AWS, OpenStack, Google Cloud, and Digital Ocean. You will see both Ansible and Terraform in action, manipulate the best bits from cloud-init to easily bootstrap instances, and simulate consistent environments locally or remotely using Vagrant. You will discover how to automate and test a range of system tasks using Chef or Puppet. You will also build, test, and debug various Docker containers having developers' interests in mind. This book will help you to use the right tools, techniques, and approaches to deliver working solutions for today's modern infrastructure challenges. Style and approach This is a recipe-based book that allows you to venture into some of the most cutting-edge practices and techniques about IAC and solve immediate problems when trying to implement them.

Learn pfSense 2.4 Mastering PfsensePfSense Essentials: The Complete Reference to the PfSense Internet Gateway and Firewall Network security is not simply about building impenetrable walls—determined attackers will eventually overcome traditional defenses. The most effective computer security 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 –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.

Get up and running with Pfsense and all the core concepts to build firewall and routing solutions Packt Pub Limited

Addressing the firewall capabilities of Linux, a handbook for security professionals describes the Netfilter infrastruction in the Linux kernel and explains how to use Netfilter as an intrusion detection system by integrating it with custom open source software and Snort rulesets, discussin such topics as Linux firewall log analysis and policies, passive network authentication and authorization, and more. Original. (Intermediate)

Infrastructure and Application Performance Monitoring Reed Media Services

FreeBSD—the powerful, flexible, and free Unix-like operating system—is the preferred server for many enterprises. But it can be even trickier to use than either Unix or Linux, and harder still to master. Absolute FreeBSD, 2nd Edition is your complete guide to FreeBSD, written by FreeBSD committer Michael W. Lucas. Lucas considers this completely revised and rewritten second edition of his landmark work to be his best work ever; a true product of his love for FreeBSD and the support of the FreeBSD community. Absolute FreeBSD, 2nd Edition covers installation, networking, security, network services, system performance, kernel tweaking, filesystems, SMP, upgrading, crash debugging, and much more, including coverage of how to:–Use advanced security features like packet filtering, virtual machines, and host-based intrusion detection –Build custom live FreeBSD CDs and bootable flash –Manage network services and filesystems –Use DNS and set up email, IMAP, web, and FTP services for both servers and clients –Monitor your system with performance-testing and troubleshooting tools –Run diskless systems –Manage schedulers, remap shared libraries, and optimize your system for your hardware and your workload –Build custom network appliances with embedded FreeBSD –Implement redundant disks, even without special hardware –Integrate FreeBSD-specific SNMP into your network management system. Whether you're just getting started with FreeBSD or you've been using it for years, you'll find this book to be the definitive guide to FreeBSD that

you've been waiting for.
Building Internet Firewalls Pearson IT Certification
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 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 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 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.
Building Secure Systems in Untrusted Networks Springer Nature
This book is an easy introduction to OpenVPN. While providing only necessary theoretical background, it takes a practical approach, presenting plenty of examples. It is written in a friendly style making this complex topic easy and a joy to read. It first covers basic VPN concepts, then moves to introduce basic OpenVPN configurations, before covering advanced uses of OpenVPN. This book is for both experienced and new OpenVPN users. If you are interested in security and privacy in the internet, or want to have your notebook or mobile phone connected safely to the internet, the server in your company, or at home, you will find this book useful. It presumes basic knowledge of Linux, but no knowledge of VPNs is required.
Ethical Hacking No Starch Press
This IBM® Redbooks® publication introduces OSGi applications and JavaTM Persistence API (JPA) 2.0 technology and describes their implementation in the Feature Pack for OSGi Applications and JPA 2.0 for WebSphere Application Server 7.0. The book will help you understand the position of these new technologies as well as how to use them for Java enterprise development in a WebSphere Application Server environment. Though synergetic, both technologies can be used in isolation. This publication is structured to appeal to administrators, application developers, and all those individuals using the technologies together or independently. The book is split into two parts. Part 1, "Architecture and overview" on page 1 introduces OSGi applications and JPA 2.0 and describes how to set up a development and test environment. Part 2, "Examples" on page 55 uses examples to illustrate how to exploit the features of OSGi applications and JPA 2.0.
Getting Started with the Feature Pack for OSGi Applications and JPA 2.0 BoD – Books on Demand
Mastering PfsensePfSense Essentials: The Complete Reference to the PfSense Internet Gateway and FirewallReed Media Services
Beginner's Guide Packt Publishing Ltd
Get up to speed with Prometheus, the metrics-based monitoring system used by tens of thousands of organizations in production. This practical guide provides application developers, sysadmins, and DevOps practitioners with a hands-on introduction to the most important aspects of Prometheus, including dashboarding and alerting, direct code instrumentation, and metric collection from third-party systems with exporters. This open source system has gained popularity over the past few years for good reason. With its simple yet powerful data model and query language, Prometheus does one thing, and it does it well. Author and Prometheus developer Brian Brazil guides you through Prometheus setup, the Node exporter, and the Alertmanager, then demonstrates how to use them for application and infrastructure monitoring. Know where and how much to apply instrumentation to your application code Identify metrics with labels using unique key-value pairs Get an introduction to Grafana, a popular tool for building dashboards Learn how to use the Node Exporter to monitor your infrastructure Use service discovery to provide different views of your machines and services Use Prometheus with Kubernetes and examine exporters you can use with containers Convert data from other monitoring systems into the Prometheus format

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