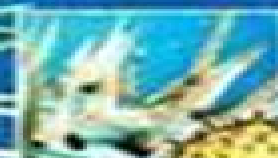


"This book works in tandem with the OpenBSD's manual pages.  
As a result, it will help many users grow and get the most from the system."  
—Theo de Raadt, OpenBSD project leader



# SECURE ARCHITECTURES WITH *OpenBSD*



BRANDON PALMER  
JOSE NAZARIO

# Secure Architectures With Openbsd

**Yanek Korff, Paco Hope, Bruce Potter**



## **Secure Architectures With Openbsd:**

**Secure Architectures with OpenBSD** Brandon Palmer, Jose Nazario, 2004 This book works in tandem with the OpenBSD's manual pages. As a result, it will help many users grow and get the most from the system. Theo de Raadt, OpenBSD project leader, says the OpenBSD system intimidates many administrators who would benefit from using it. This book lets people start much higher up on the curve. Secure Architectures with OpenBSD not only presents the hows but also shows some of the whys that only insiders know. Mike Frantzen, NFR Security, says Secure Architectures with OpenBSD explains all of the tasks an administrator has to know about to successfully maintain an OpenBSD server. It helps the reader save time by condensing the vast amount of information available in man pages into a compact form, reducing unneeded information and explaining other things in much more detail and prose than a man page can afford. Daniel Hartmeier, the OpenBSD Project, says this book will become the de facto text for OpenBSD administration. Unix and BSD books abound, but none cover OpenBSD with the clarity and expertise of Palmer and Nazario. They explain the optimal way to configure and administer your OpenBSD machines with a keen eye to security at all stages. Brian Hatch, coauthor of *Hacking Exposed: Linux and Building Linux Virtual Private Networks*, says Descended from BSD, OpenBSD is a popular choice for those who demand stability and security from their operating system. No code goes into OpenBSD without first undergoing a rigorous security check, making it a terrific choice for Web servers, VPNs, and firewalls. Secure Architectures with OpenBSD is the insider's guide to building secure systems using OpenBSD. Written by Brandon Palmer and Jose Nazario, this book is a how-to for system and network administrators who need to move to a more secure operating system and a reference for seasoned OpenBSD users who want to fully exploit every feature of the system. After getting readers started with OpenBSD, the authors explain system configuration and administration, then explore more exotic hardware and advanced topics. Every chapter of the book addresses the issue of security because security is integrated into almost every facet of OpenBSD. Examples appear throughout the book, and the authors provide source code and system details unavailable anywhere else. This goes well beyond the basics and gives readers information they will need long after they have installed the system. Key topic coverage includes installation and upgrade details, basic system usage in OpenBSD versus other Unix systems, third-party software via packages and the ports tree, SMTP services in OpenBSD, Web services with Apache, using OpenBSD as a firewall, OpenBSD as a Kerberos V client and server, use of IPsec, configuration and use of IPv6, network intrusion detection. Secure Architectures with OpenBSD takes you inside OpenBSD, giving you the insights and expertise no system manual can provide. The companion Web site tracks advances and changes made to the operating system and contains updates to the book and working code samples.

Mastering FreeBSD and OpenBSD Security Yanek Korff, Paco Hope, Bruce Potter, 2005-03-24 FreeBSD and OpenBSD are increasingly gaining traction in educational institutions, non-profits, and corporations worldwide because they provide significant security advantages over Linux. Although a lot can be said for the robustness, clean organization, and stability of

the BSD operating systems security is one of the main reasons system administrators use these two platforms There are plenty of books to help you get a FreeBSD or OpenBSD system off the ground and all of them touch on security to some extent usually dedicating a chapter to the subject But as security is commonly named as the key concern for today s system administrators a single chapter on the subject can t provide the depth of information you need to keep your systems secure FreeBSD and OpenBSD are rife with security building blocks that you can put to use and Mastering FreeBSD and OpenBSD Security shows you how Both operating systems have kernel options and filesystem features that go well beyond traditional Unix permissions and controls This power and flexibility is valuable but the colossal range of possibilities need to be tackled one step at a time This book walks you through the installation of a hardened operating system the installation and configuration of critical services and ongoing maintenance of your FreeBSD and OpenBSD systems Using an application specific approach that builds on your existing knowledge the book provides sound technical information on FreeBSD and Open BSD security with plenty of real world examples to help you configure and deploy a secure system By imparting a solid technical foundation as well as practical know how it enables administrators to push their server s security to the next level Even administrators in other environments like Linux and Solaris can find useful paradigms to emulate Written by security professionals with two decades of operating system experience Mastering FreeBSD and OpenBSD Security features broad and deep explanations of how how to secure your most critical systems Where other books on BSD systems help you achieve functionality this book will help you more thoroughly secure your deployments *The Book of PF, 3rd Edition* Peter N.M. Hansteen,2014-10-03 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 provision ing 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 *The Book of PF, 2nd Edition* Peter N. M. Hansteen,2011 This second edition is an up to date no nonsense guide to harnessing the power of PF The author covers NAT network address translation and redirection wireless networking SPAM fighting failover provisioning logging and more *Critical Information*

*Infrastructures* Maitland Hyslop, 2007-09-05 Resilience is an increasingly important concept and quality in today's world. It is particularly important in the area of Critical Infrastructures. It is crucial in the area of Critical Information Infrastructure. This is because since the year 2000 man has been dependent on information and telecommunications systems for survival particularly in the Organization for Economic Cooperation and Development (OECD) countries and because all other Critical Infrastructures depend upon to a greater or lesser extent Critical Information Infrastructure. Until probably the late 1980s it would be fair to say that the defense of individual nation states depended upon a mixture of political will and armed might. The fall of the Berlin Wall may have effectively ended the Cold War and with it a bipolar world but it brought globalization and a multipolar digital world in its wake. Simply put a number of power vacuums were created and these have yet to be fully filled and settled. In this New World many changes were afoot. These changes include the increasing irrelevance of nation states in federated structures and the export of democracy on the back of globalization. One of the biggest changes though is the use of digital technology by the OECD countries. This is on such a scale that these countries have become both dependent upon information technology and as individual states largely irrelevant to the new global electronic economy. This adaptation of Maslow's hierarchy of needs is attributed to KPMG.

*Snort 2.1 Intrusion Detection, Second Edition* Brian Caswell, Jay Beale, 2004-06-06 Called the leader in the Snort IDS book arms race by Richard Bejtlich top Amazon reviewer this brand new edition of the best selling Snort book covers all the latest features of a major upgrade to the product and includes a bonus DVD with Snort 2.1 and other utilities. Written by the same lead engineers of the Snort Development team this will be the first book available on the major upgrade from Snort 2 to Snort 2.1 in this community. Major upgrades are noted by x and not by full number upgrades as in 2.0 to 3.0. Readers will be given invaluable insight into the code base of Snort and in depth tutorials of complex installation configuration and troubleshooting scenarios. Snort has three primary uses as a straight packet sniffer, a packet logger or as a full blown network intrusion detection system. It can perform protocol analysis, content searching, matching and can be used to detect a variety of attacks and probes. Snort uses a flexible rules language to describe traffic that it should collect or pass a detection engine that utilizes a modular plug-in architecture and a real time alerting capability. A CD containing the latest version of Snort as well as other up to date Open Source security utilities will accompany the book. Snort is a powerful Network Intrusion Detection System that can provide enterprise wide sensors to protect your computer assets from both internal and external attack. Completely updated and comprehensive coverage of snort 2.1. Includes free CD with all the latest popular plug-ins. Provides step by step instruction for installing, configuring and troubleshooting.

**802.11 Security** Bruce Potter, Bob Fleck, 2002-12-17 Focusing on wireless LANs in general and 802.11 based networks in particular Potter, VeriSign and Fleck Secure Software outline strategies and implementations for deploying a secure wireless network. They explain how the 802.11 protocols work and how an attacker will attempt to exploit weak spots within a network and suggest methods for locking down a wireless client machine and

securely configuring a wireless access point Annotation 2004 Book News Inc Portland OR booknews com     Hacking Exposed Linux ISECOM,2007-08-22 The Latest Linux Security Solutions This authoritative guide will help you secure your Linux network whether you use Linux as a desktop OS for Internet services for telecommunications or for wireless services Completely rewritten the ISECOM way Hacking Exposed Linux Third Edition provides the most up to date coverage available from a large team of topic focused experts The book is based on the latest ISECOM security research and shows you in full detail how to lock out intruders and defend your Linux systems against catastrophic attacks Secure Linux by using attacks and countermeasures from the latest OSSTMM research Follow attack techniques of PSTN ISDN and PSDN over Linux Harden VoIP Bluetooth RF RFID and IR devices on Linux Block Linux signal jamming cloning and eavesdropping attacks Apply Trusted Computing and cryptography tools for your best defense Fix vulnerabilities in DNS SMTP and Web 2 0 services Prevent SPAM Trojan phishing DoS and DDoS exploits Find and repair errors in C code with static analysis and Hoare Logic     **Intrusion Detection with Snort** Jack Koziol,2003 The average Snort user needs to learn how to actually get their systems up and running Snort Intrusion Detection provides readers with practical guidance on how to put Snort to work Opening with a primer to intrusion detection the book takes readers through planning an installation to building the server and sensor     Secure Coding in C and C++ Robert C. Seacord,2005-09-09 The security of information systems has not improved at a rate consistent with the growth and sophistication of the attacks being made against them To address this problem we must improve the underlying strategies and techniques used to create our systems Specifically we must build security in from the start rather than append it as an afterthought That s the point of Secure Coding in C and C In careful detail this book shows software developers how to build high quality systems that are less vulnerable to costly and even catastrophic attack It s a book that every developer should read before the start of any serious project Frank Abagnale author lecturer and leading consultant on fraud prevention and secure documents Learn the Root Causes of Software Vulnerabilities and How to Avoid Them Commonly exploited software vulnerabilities are usually caused by avoidable software defects Having analyzed nearly 18 000 vulnerability reports over the past ten years the CERT Coordination Center CERT CC has determined that a relatively small number of root causes account for most of them This book identifies and explains these causes and shows the steps that can be taken to prevent exploitation Moreover this book encourages programmers to adopt security best practices and develop a security mindset that can help protect software from tomorrow s attacks not just today s Drawing on the CERT CC s reports and conclusions Robert Seacord systematically identifies the program errors most likely to lead to security breaches shows how they can be exploited reviews the potential consequences and presents secure alternatives Coverage includes technical detail on how to Improve the overall security of any C C application Thwart buffer overflows and stack smashing attacks that exploit insecure string manipulation logic Avoid vulnerabilities and security flaws resulting from the incorrect use of dynamic memory management functions Eliminate integer related problems integer

overflows sign errors and truncation errors Correctly use formatted output functions without introducing format string vulnerabilities Avoid I O vulnerabilities including race conditions Secure Coding in C and C presents hundreds of examples of secure code insecure code and exploits implemented for Windows and Linux If you re responsible for creating secure C or C software or for keeping it safe no other book offers you this much detailed expert assistance     Malicious Bots Ken Dunham,Jim Melnick,2008-08-06 Originally designed as neutral entities computerized bots are increasingly being used maliciously by online criminals in mass spamming events fraud extortion identity theft and software theft Malicious Bots An Inside Look into the Cyber Criminal Underground of the Internet explores the rise of dangerous bots and exposes the nefarious methods of botmasters This valuable resource assists information security managers in understanding the scope sophistication and criminal uses of bots With sufficient technical detail to empower IT professionals this volume provides in depth coverage of the top bot attacks against financial and government networks over the last several years The book presents exclusive details of the operation of the notorious Thr34t Krew one of the most malicious bot herder groups in recent history Largely unidentified by anti virus companies their bots spread globally for months launching massive distributed denial of service DDoS attacks and warez stolen software distributions For the first time this story is publicly revealed showing how the botherders got arrested along with details on other bots in the world today Unique descriptions of the criminal marketplace how criminals make money off of your computer are also a focus of this exclusive book With unprecedented detail the book goes on to explain step by step how a hacker launches a botnet attack providing specifics that only those entrenched in the cyber crime investigation world could possibly offer Authors Ken Dunham and Jim Melnick serve on the front line of critical cyber attacks and countermeasures as experts in the deployment of geopolitical and technical bots Their work involves advising upper level government officials and executives who control some of the largest networks in the world By examining the methods of Internet predators information security managers will be better able to proactively protect their own networks from such attacks     **Building a Server with FreeBSD 7** Bryan J. Hong,2008 A guide to using FreeBSD 7 to build servers covers such topics as installation and booting kernels system security disks and file systems Web services upgrading software management and system performance and monitoring     **Building Linux and OpenBSD Firewalls** Wes Sonnenreich,Tom Yates,2000-02-16 A step by step guide to bulding a commercial grade firewall with open source software Building Linux and OpenBSD Firewalls It s now more important than ever before to protect your data and computers from people trying to hack into your network Without the proper security the wrong person can gain access to your system and read critical documents change data delete items and much worse With this book you ll quickly learn how to protect your network from such attacks as you build a Linux or OpenBSD firewall From determining how much security you ll need to configuring the firewall and monitoring your system authors Tom Yates and Wes Sonnenreich clearly guide you through all the necessary steps to improve your security They show you how to Build Linux and OpenBSD firewalls that meet

your security needs Choose the appropriate hardware for each operating system and put the machine together Configure a firewall that allows network services such as email newsgroups and Internet and intranet access Monitor and update your system to close any holes in security Detect intruders and restore your network security The companion Web site at [www.wiley.com/compbooks/sonnenreich](http://www.wiley.com/compbooks/sonnenreich) features Updates for the most recent releases of OpenBSD and Red Hat Useful scripts and tools Sample firewall configurations Additional online resources **American Book Publishing Record**, 2004 *Network Dictionary* Javvin [www.networkdictionary.com](http://www.networkdictionary.com), 2007 Whether the reader is the biggest technology geek or simply a computer enthusiast this integral reference tool can shed light on the terms that ll pop up daily in the communications

industry Computer Books Communications Networking **Security Patterns in Practice** Eduardo Fernandez-Buglioni, 2013-06-25 Learn to combine security theory and code to produce secure systems Security is clearly a crucial issue to consider during the design and implementation of any distributed software architecture Security patterns are increasingly being used by developers who take security into serious consideration from the creation of their work Written by the authority on security patterns this unique book examines the structure and purpose of security patterns illustrating their use with the help of detailed implementation advice numerous code samples and descriptions in UML Provides an extensive up to date catalog of security patterns Shares real world case studies so you can see when and how to use security patterns in practice Details how to incorporate security from the conceptual stage Highlights tips on authentication authorization role based access control firewalls wireless networks middleware VoIP web services security and more Author is well known and highly respected in the field of security and an expert on security patterns Security Patterns in Practice shows you how to confidently develop a secure system step by step **Proceedings of the ... USENIX Security Symposium**, 2006

*Engineering Secure Software and Systems* Jan Jürjens, Ben Livshits, Riccardo Scandariato, 2013-02-26 This book constitutes the refereed proceedings of the 5th International Symposium on Engineering Secure Software and Systems ESSoS 2013 held in Paris France in February March 2013 The 13 revised full papers presented together with two idea papers were carefully reviewed and selected from 62 submissions The papers are organized in topical sections on secure programming policies proving formal methods and analyzing **Security for Linux on System z** Lydia Parziale, Jonathan Barney, Vic Cross, William Johnston, Eduardo Kienetz, Eric Marins, Nilesh Patel, Sri Venkatesen, IBM Redbooks, 2013-01-10 No IT server platform is 100% secure and useful at the same time If your server is installed in a secure vault three floors underground in a double locked room not connected to any network and switched off one would say it was reasonably secure but it would be a stretch to call it useful This IBM Redbooks publication is about switching on the power to your Linux on System z server connecting it to the data and to the network and letting users have access to this formidable resource space in a secure controlled and auditable fashion to make sure the System z server and Linux are useful to your business As the quotation illustrates the book is also about ensuring that before you start designing a security solution you understand what



the solution has to achieve The base for a secure system is tightly related to the way the architecture and virtualization has been implemented on IBM System z Since its inception 45 years ago the architecture has been continuously developed to meet the increasing demands for a more secure and stable platform This book is intended for system engineers and security administrators who want to customize a Linux on System z environment to meet strict security audit and control regulations For additional information there is a tech note that describes the best practices for securing your network It can be found at <http://www.redbooks.ibm.com/abstracts/tips0981.html> Open

*InfoSec Career Hacking: Sell Your Skillz, Not Your Soul* Chris Hurley,Johnny Long,Aaron W Bayles,Ed Brindley,2005-06-02 InfoSec Career Hacking starts out by describing the many different InfoSec careers available including Security Engineer Security Analyst Penetration Tester Auditor Security Administrator Programmer and Security Program Manager The particular skills required by each of these jobs will be described in detail allowing the reader to identify the most appropriate career choice for them Next the book describes how the reader can build his own test laboratory to further enhance his existing skills and begin to learn new skills and techniques The authors also provide keen insight on how to develop the requisite soft skills to migrate from the hacker to corporate world The InfoSec job market will experience explosive growth over the next five years and many candidates for these positions will come from thriving hacker communities Teaches these hackers how to build their own test networks to develop their skills to appeal to corporations and government agencies Provides specific instructions for developing time management and personal skills to build a successful InfoSec career

## Secure Architectures With Openbsd Book Review: Unveiling the Power of Words

In some sort of driven by information and connectivity, the power of words has be evident than ever. They have the capability to inspire, provoke, and ignite change. Such is the essence of the book **Secure Architectures With Openbsd**, a literary masterpiece that delves deep into the significance of words and their impact on our lives. Published by a renowned author, this captivating work takes readers on a transformative journey, unraveling the secrets and potential behind every word. In this review, we shall explore the book is key themes, examine its writing style, and analyze its overall affect readers.

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