

WHAT IS UNIX OPERATING SYSTEM



Unix System Security

William C. Boni, Gerald L. Kovacich



Unix System Security:

UNIX System Security David Allan Curry,1992 Many of the same features that have attracted the corporate and government world to UNIX have made security very difficult to control This book examines several high profile security break ins and then provides the information necessary to protect a UNIX system from unauthorized access Covers all the most recent releases of UNIX

UNIX System Security Rik Farrow,1991 This complete guide to maintaining data integrity and preventing security break ins shows UNIX users and administrators how to protect their files and directories from viruses worms and hackers Essential points are illustrated with actual cases

UNIX System Security Patrick H. Wood,Stephen G. Kochan,1985

Network and System Security Gerald Beuchelt,2013-08-26 There are many objectives and goals to be considered when securing a operating system When configuring Unix operating system security consider the critical principles of security known as the confidentiality integrity and availability CIA triad In addition to incorporating security controls that relate to the CIA triad three other security features directly affect CIA and aid the overall site security program access control auditing and backups Although this chapter covers general Unix considerations it also addresses several Linux specific items This chapter is for all Linux variants file names directory paths variable names and so on may also have to be taken into consideration There are numerous versions of Linux and it would be beyond the scope of this chapter to try to detail them all All requirements listed within this chapter will pertain to all versions of Linux unless explicitly noted otherwise

UNIX System Security Handbook ,1992

UNIX Security for the Organization R. Bringle Bryant,1994 For both the administrator and the end user this handbook shows how to make a UNIX system secure and keep it that way Covering every aspect of system security security specialist Richard Bryant reveals how to set up a security plan tie security mechanisms together protect files and workstations and more

UNIX System Security Tools Seth T. Ross,2000 This text focuses on the security fixes and tools used to fend off hackers Topics include passwords permissions cryptography backups and auditing and logging The CD ROM contains UNIX security programs available for security checkers IIS SATAN and Kerberos

Practical UNIX and Internet Security Simson Garfinkel,Gene Spafford,Alan Schwartz,2003-02-21 When Practical Unix Security was first published more than a decade ago it became an instant classic Crammed with information about host security it saved many a Unix system administrator from disaster The second edition added much needed Internet security coverage and doubled the size of the original volume The third edition is a comprehensive update of this very popular book a companion for the Unix Linux system administrator who needs to secure his or her organization s system networks and web presence in an increasingly hostile world Focusing on the four most popular Unix variants today Solaris Mac OS X Linux and FreeBSD this book contains new information on PAM Pluggable Authentication Modules LDAP SMB Samba anti theft technologies embedded systems wireless and laptop issues forensics intrusion detection chroot jails telephone scanners and firewalls virtual and cryptographic filesystems WebNFS kernel security levels outsourcing legal

issues new Internet protocols and cryptographic algorithms and much more Practical Unix Internet Security consists of six parts Computer security basics introduction to security problems and solutions Unix history and lineage and the importance of security policies as a basic element of system security Security building blocks fundamentals of Unix passwords users groups the Unix filesystem cryptography physical security and personnel security Network security a detailed look at modem and dialup security TCP IP securing individual network services Sun s RPC various host and network authentication systems e g NIS NIS and Kerberos NFS and other filesystems and the importance of secure programming Secure operations keeping up to date in today s changing security world backups defending against attacks performing integrity management and auditing Handling security incidents discovering a break in dealing with programmed threats and denial of service attacks and legal aspects of computer security Appendixes a comprehensive security checklist and a detailed bibliography of paper and electronic references for further reading and research Packed with 1000 pages of helpful text scripts checklists tips and warnings this third edition remains the definitive reference for Unix administrators and anyone who cares about protecting their systems and data from today s threats

UNIX Security N. Derek Arnold,1993-01-01 A unique hands on tutorial providing in depth information on how to protect UNIX based computer systems from unauthorized users and destructive data manipulation Includes all the essential tools and techniques to manage and control security in a UNIX system

Network and System Security Mario Santana,2013-08-26 Linux and other Unix like operating systems are prevalent on the Internet for a number of reasons As an operating system designed to be flexible and robust Unix lends itself to providing a wide array of host and network based services Unix also has a rich culture from its long history as a fundamental part of computing research in industry and academia Unix and related operating systems play a key role as platforms for delivering the key services that make the Internet possible For these reasons it is important that information security practitioners understand fundamental Unix concepts in support of practical knowledge of how Unix systems might be securely operated This chapter is an introduction to Unix in general and to Linux in particular presenting some historical context and describing some fundamental aspects of the operating system architecture Considerations for hardening Unix deployments will be contemplated from network centric host based and systems management perspectives Finally proactive considerations are presented to identify security weaknesses to correct them and to deal effectively with security breaches when they do occur

Practical UNIX Security Simson Garfinkel,Gene Spafford,1991 This handbook tells system administrators how to make their UNIX system as secure as it possibly can be without going to trusted system technology If you are a UNIX system administrator or user who needs to deal with security you need this book

UNIX System Security Essentials Christoph Braun,1995 How can a broad variety of UNIX operating system users keep the system secure This book provides answers for users system administrators and programmers The author pinpoints the critical threats to data security the UNIX system users should recognize avoid and overcome Includes a summary of the key UNIX system security

commands and system calls Operating System Security Trent Jaeger, 2022-05-31 Operating systems provide the fundamental mechanisms for securing computer processing Since the 1960s operating systems designers have explored how to build secure operating systems operating systems whose mechanisms protect the system against a motivated adversary Recently the importance of ensuring such security has become a mainstream issue for all operating systems In this book we examine past research that outlines the requirements for a secure operating system and research that implements example systems that aim for such requirements For system designs that aimed to satisfy these requirements we see that the complexity of software systems often results in implementation challenges that we are still exploring to this day However if a system design does not aim for achieving the secure operating system requirements then its security features fail to protect the system in a myriad of ways We also study systems that have been retrofit with secure operating system features after an initial deployment In all cases the conflict between function on one hand and security on the other leads to difficult choices and the potential for unwise compromises From this book we hope that systems designers and implementors will learn the requirements for operating systems that effectively enforce security and will better understand how to manage the balance between function and security Table of Contents Introduction Access Control Fundamentals Multics Security in Ordinary Operating Systems Verifiable Security Goals Security Kernels Securing Commercial Operating Systems Case Study Solaris Trusted Extensions Case Study Building a Secure Operating System for Linux Secure Capability Systems Secure Virtual Machine Systems System Assurance **Handbook of Heterogeneous Networking** Raj Rajgopal, 2018-01-31 Here is all the practical hands on information you need to build manage and maintain a heterogeneous computing environment with hardware software and network equipment from a number of different vendors Packed with real world case studies and proven techniques for integrating disparate platforms operating systems and servers Handbook of Heterogeneous Computing is a one stop non nonsense guide that shows you how to port and develop applications in a heterogeneous environment manage desktops data access communications and security in a heterogeneous environment and build distributed heterogeneous systems What is best for your installation Should you standardize on the Windows environment for both production applications and office applications Should you adopt the Windows NT workstation as a standard desktop and use Windows NT as the network operating system Handbook of Heterogeneous Computing details the advantages and disadvantages of these and other approaches The book also explains the arts of porting and developing applications in a heterogeneous environment using Java CGI Perl and other tools how to build interfaces with mainframe legacy systems how to use CORBA to integrate distributed database systems while at the same time managing database gateways and interoperability how to manage interlan switching multicast networking structures SNA LAN integration and all aspects of enterprise networks and how to use Kerberos firewalls PGP RSA public keys and other tools to assure security in heterogeneous environments Heterogeneous computing is here to stay It is therefore up to corporate end users to make

competing products fit into their environments efficiently effectively and economically Handbook of Heterogeneous Computing gives you t **AUUGN**, 1987-10 **Computer Security and the UNIX System** Juanita Koilpillai, 1987

I-Way Robbery William C. Boni, Gerald L. Kovacich, 1999 *I Way Robbery* is for security investigative law enforcement and other criminal justice professionals offering a unique look at the Internet as the new crime environment for the 21st century The book provides an overview of the Internet its impact on nations societies criminals security officers and law enforcement professionals and includes recommended basic protective measures *I Way Robbery* is written in non technical terms It is also an excellent reference for business and government agency managers who must understand their responsibilities as they relate to asset protection especially those who have on and off ramps connected to the I Way Boni and Kovacich start with the basics and teach users about the internet before teaching them about the security risks This addresses the subject from the non information systems perspective and educates the average user about the overall risks and appropriate protective measures they should enforce and follow This book is a must have for anyone with an interest in the pitfalls and precautions of doing business on the internet *I Way Robbery Crime on the Internet* uniquely approaches the much talked about topic of Internet Crime and security It is written for anyone who wants a basic understanding of the Internet crime environment now and into the 21st Century It covers related Internet business government global laws politics and privacy issues techniques being used to commit crimes what can be done about it and what challenges the future may hold including topics such as information warfare Drawing on their decades of experience in high technology and Internet crime investigations William Boni and Dr Gerald L Kovacich have written not only an excellent reference book for business and government agency managers small business owners and teachers but for anyone who drives along the I Way Addresses the subject of internet security from the non information systems perspective Detailed incident reports to fully illustrate the specific issues readers must understand to fully appreciate the risks of I Way activity Covers a broad range of issues [UNIX: The Complete Reference, Second Edition](#) Kenneth Rosen, Douglas Host, Rachel Klee, Richard Rosinski, 2006-12-19 The Definitive UNIX Resource Fully Updated Get cutting edge coverage of the newest releases of UNIX including Solaris 10 all Linux distributions HP UX AIX and FreeBSD from this thoroughly revised one stop resource for users at all experience levels Written by UNIX experts with many years of experience starting with Bell Laboratories UNIX The Complete Reference Second Edition provides step by step instructions on how to use UNIX and take advantage of its powerful tools and utilities Get up and running on UNIX quickly use the command shell and desktop and access the Internet and e mail You ll also learn to administer systems and networks develop applications and secure your UNIX environment Up to date chapters on UNIX desktops Samba Python Java Apache and UNIX Web development are included Install configure and maintain UNIX on your PC or workstation Work with files directories commands and the UNIX shell Create and modify text files using powerful text editors Use UNIX desktops including GNOME CDE and KDE as an end user or system administrator Use and manage e mail

TCP IP networking and Internet services Protect and maintain the security of your UNIX system and network Share devices printers and files between Windows and UNIX systems Use powerful UNIX tools including awk sed and grep Develop your own shell Python and Perl scripts and Java C and C programs under UNIX Set up Apache Web servers and develop browser independent Web sites and applications *Formal security policy model for the UNIX system* Trusted UNIX Working Group (TRUSIX). National Computer Security Center (US),1990 Secure UNIX Samuel Samalin,1999-06-01 Shows security administrators how to implement why secure systems are necessary how secure systems work security policy guidelines how to maintain a secure organization advanced security architecture using Secure UNIX valuable quick reference guidelines for secure systems administrators

The book delves into Unix System Security. Unix System Security is an essential topic that must be grasped by everyone, from students and scholars to the general public. This book will furnish comprehensive and in-depth insights into Unix System Security, encompassing both the fundamentals and more intricate discussions.

1. This book is structured into several chapters, namely:

- Chapter 1: Introduction to Unix System Security
- Chapter 2: Essential Elements of Unix System Security
- Chapter 3: Unix System Security in Everyday Life
- Chapter 4: Unix System Security in Specific Contexts
- Chapter 5: Conclusion

2. In chapter 1, this book will provide an overview of Unix System Security. This chapter will explore what Unix System Security is, why Unix System Security is vital, and how to effectively learn about Unix System Security.

3. In chapter 2, this book will delve into the foundational concepts of Unix System Security. This chapter will elucidate the essential principles that need to be understood to grasp Unix System Security in its entirety.

4. In chapter 3, the author will examine the practical applications of Unix System Security in daily life. This chapter will showcase real-world examples of how Unix System Security can be effectively utilized in everyday scenarios.

5. In chapter 4, the author will scrutinize the relevance of Unix System Security in specific contexts. The fourth chapter will explore how Unix System Security is applied in specialized fields, such as education, business, and technology.

6. In chapter 5, the author will draw a conclusion about Unix System Security. The final chapter will summarize the key points that have been discussed throughout the book.

This book is crafted in an easy-to-understand language and is complemented by engaging illustrations. This book is highly recommended for anyone seeking to gain a comprehensive understanding of Unix System Security.

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Unix System Security Introduction

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