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Administration Second Edition

SELinux System Administration - Second

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Administration - Second Edition ...

SELinux provides a mandatory access

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control (MAC) system that, unlike its DAC counterpart, gives the administrator full control over what is allowed on the system and what isn't. It accomplishes this by supporting a policy-driven approach over what processes are and aren't allowed to do and by enforcing this policy through the Linux kernel.

SELinux System Administration - Second Edition

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SELinux System Administration - Second Edition. By Sven Vermeulen December 2016. ... He also authored the Linux Sea online publication (a basic introduction to Linux for novice system administrators) and SELinux System Administration and SELinux Cookbook for Packt Publishing.
Table of Contents. 1 Fundamental SELinux

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Concepts.

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SELinux System Administration – Second Edition. K ö nyvt á runkb ó l; ... covers the core SELinux concepts and shows you how to leverage SELinux to improve the protection measures of a Linux system. You will learn the SELinux fundamentals and all of SELinux ' s configuration handles including conditional policies, constraints, policy types, and ...

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In this article by Sven Vermeulen, the author of the book SELinux System Administration Second Edition, we will see how Security Enhanced Linux (SELinux) brings additional security measures for your Linux system to further protect the resources on the system. This article explains why SELinux has opted to use labels to identify

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resources, the way SELinux differentiates itself from regular Linux access controls through the enforcement of security rules, how the access control rules enforced ...

Fundamental SELinux Concepts | Packt Hub

The Red Hat Enterprise Linux 6 SELinux User Guide is for people with minimal or no experience with SELinux. Although system administration experience is not necessary, content in this guide is written for system administration tasks. This guide provides an introduction to fundamental concepts and practical applications of SELinux.

Security-Enhanced Linux - User Guide

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Administration Second Edition Thomas A.

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The Practice of System and Network Administration

NNATE CAMPI is a UNIX and Linux system administrator by trade, currently working as a UNIX operations manager in San Francisco. His system administration experience is almost entirely with companies with large-scale web operations based on open source software. In his copious free time, he enjoys jogging, watching spaghetti westerns,

Automating Linux and Unix System Administration

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on Linux, 3rd Edition Dec 4 2020 by Sven Vermeulen

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SUSE LINUX ENTERPRISE SERVER ADMINISTRATION, SECOND EDITION is geared towards readers who are interested in administering, using, or developing programs for the Linux operating system. Readers are introduced to SUSE Linux Enterprise Server (SLES) 11 operating system and learn to administer Linux in a network administration environment.

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SUSE Linux Enterprise Server Administration (Course 3112 ...

Defining and distributing policies - SELinux System Administration - Second Edition
Enabling SELinux does not automatically start the enforcement of access. If SELinux is enabled and it cannot find a policy, it will refuse to start. Enabling SELinux does not automatically start the enforcement of access.

Ward off traditional security permissions and effectively secure your Linux systems with SELinux
About This Book* Leverage SELinux to improve the security of your Linux system* An easy-to-follow approach and instructions to help you adopt SELinux within your organization* Acquire key skills and techniques in your system administration career
Who This Book Is

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This book is for both beginners as well as seasoned Linux administrators who want to control the secure state of their systems. Packed with the latest information on SELinux operations and administrative procedures, you will enjoy hardening your system further through the Mandatory Access Control system that has been shaping Linux' security for years.

What You Will Learn*

- Analyse SELinux events and selectively enable or disable SELinux enforcement*
- Manage Linux users and associate them with the right role and permission set*
- Secure network communications through SELinux' access controls*
- Tune the full service flexibility by dynamically assigning resource labels*
- Handle SELinux' access patterns enforced through the system*
- Query the SELinux policy in depth

In Detail

Do you have the daunting job of protecting your and your company's systems from malicious attacks

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and undefined application behaviour? Or are you looking to secure your Linux systems with improved access control? Well, look no further! This book gives you all the preliminary know-hows about enhancing your system's security across Linux distributions, helping you keep application vulnerabilities at bay. In this book, we describe the SELinux concepts and show you how to leverage SELinux to improve the secure state of a Linux system. You will learn not only about the fundamental SELinux concepts, but also about all of SELinux's configuration handles including conditional policies, constraints, policy types, and audit capabilities, with genuine examples that you as administrators might come across. In addition, you will learn how to further harden the virtualization offering of both libvirt (sVirt) and Docker through SELinux. By the end of the book, you will know how SELinux works and how it can be

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tuned to your needs.

Ward off traditional security permissions and effectively secure your Linux systems with SELinux About This Book Leverage SELinux to improve the secure state of your Linux system A clear approach to adopting SELinux within your organization Essential skills and techniques to help further your system administration career Who This Book Is For This book is for Linux administrators who want to control the secure state of their systems. It's packed with the latest information on SELinux operations and administrative procedures so you'll be able to further harden your system through mandatory access control (MAC) – a security strategy that has been shaping Linux security for years. What You Will Learn Analyze SELinux events and selectively enable or disable SELinux enforcement Manage Linux users and

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Associate them with the right role and permission set Secure network communications through SELinux access controls Tune the full service flexibility by dynamically assigning resource labels Handle SELinux access patterns enforced through the system Query the SELinux policy in depth In Detail Do you have the crucial job of protecting your private and company systems from malicious attacks and undefined application behavior? Are you looking to secure your Linux systems with improved access controls? Look no further, intrepid administrator! This book will show you how to enhance your system's secure state across Linux distributions, helping you keep application vulnerabilities at bay. This book covers the core SELinux concepts and shows you how to leverage SELinux to improve the protection measures of a Linux system. You will learn the SELinux fundamentals and all of

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SELinux's configuration handles including conditional policies, constraints, policy types, and audit capabilities. These topics are paired with genuine examples of situations and issues you may come across as an administrator. In addition, you will learn how to further harden the virtualization offering of both libvirt (sVirt) and Docker through SELinux. By the end of the book you will know how SELinux works and how you can tune it to meet your needs. Style and approach This book offers a complete overview of SELinux administration and how it integrates with other components on a Linux system. It covers the majority of SELinux features with a mix of real life scenarios, descriptions, and examples. This book contains everything an administrator needs to customize SELinux.

A step-by-step guide to learn how to set up security on Linux servers by taking SELinux

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policies into your own hands. Linux administrators will enjoy the various SELinux features that this book covers and the approach used to guide the admin into understanding how SELinux works. The book assumes that you have basic knowledge in Linux administration, especially Linux permission and user management.

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

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Edition
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

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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.

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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.

Achieve enterprise automation in your Linux environment with this comprehensive guide Key Features Automate your Linux infrastructure with the help of practical use cases and real-world scenarios Learn to plan, build, manage, and customize OS releases in your environment Enhance the scalability and efficiency of your infrastructure with advanced Linux system administration concepts Book Description Automation is paramount if you want to run Linux in your enterprise effectively. It helps you minimize costs by reducing manual operations, ensuring compliance across data centers, and accelerating deployments for your

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cloud infrastructures. Complete with detailed explanations, practical examples, and self-assessment questions, this book will teach you how to manage your Linux estate and leverage Ansible to achieve effective levels of automation. You'll learn important concepts on standard operating environments that lend themselves to automation, and then build on this knowledge by applying Ansible to achieve standardization throughout your Linux environments. By the end of this Linux automation book, you'll be able to build, deploy, and manage an entire estate of Linux servers with higher reliability and lower overheads than ever before. What you will learn Perform large-scale automation of Linux environments in an enterprise Overcome the common challenges and pitfalls of extensive automation Define the business processes needed to support a large-scale Linux environment Get well-versed

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with the most effective and reliable patch management strategies Automate a range of tasks from simple user account changes to complex security policy enforcement Learn best practices and procedures to make your Linux environment automatable Who this book is for This book is for anyone who has a Linux environment to design, implement, and maintain. Open source professionals including infrastructure architects and system administrators will find this book useful. You ' re expected to have experience in implementing and maintaining Linux servers along with knowledge of building, patching, and maintaining server infrastructure. Although not necessary, knowledge of Ansible or other automation technologies will be beneficial.

SELinux: Bring World-Class Security to Any Linux Environment! SELinux offers Linux/UNIX integrators, administrators,

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and developers a state-of-the-art platform for building and maintaining highly secure solutions. Now that SELinux is included in the Linux 2.6 kernel—and delivered by default in Fedora Core, Red Hat Enterprise Linux, and other major distributions—it's easier than ever to take advantage of its benefits. SELinux by Example is the first complete, hands-on guide to using SELinux in production environments. Authored by three leading SELinux researchers and developers, it illuminates every facet of working with SELinux, from its architecture and security object model to its policy language. The book thoroughly explains SELinux sample policies—including the powerful new Reference Policy—showing how to quickly adapt them to your unique environment. It also contains a comprehensive SELinux policy language reference and covers exciting new features in Fedora Core 5 and the upcoming Red Hat

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Enterprise Linux version 5. • Thoroughly understand SELinux 's access control and security mechanisms • Use SELinux to construct secure systems from the ground up • Gain fine-grained control over kernel resources • Write policy statements for type enforcement, roles, users, and constraints • Use optional multilevel security to enforce information classification and manage users with diverse clearances • Create conditional policies that can be changed on-the-fly • Define, manage, and maintain SELinux security policies • Develop and write new SELinux security policy modules • Leverage emerging SELinux technologies to gain even greater flexibility • Effectively administer any SELinux system

A guide geared toward seasoned Linux and Unix administrators offers practical knowledge for managing a range of Linux

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systems and servers, covering such topics as installing servers, setting up e-mail systems, and creating shell scripts.

If you are a Linux system administrator or a Linux-based service administrator and want to fine-tune SELinux to implement a supported, mature, and proven access control system, then this book is for you. Basic experience with SELinux enabled distributions is expected.

Based on Red Hat Enterprise Linux 6 (RHEL 6), this guide covers all official exam objectives and includes more than 100 exercises, more than 550 exam review questions, more than 70 practice labs, and two sample exams.

Offers a readable, practical introduction and step-by-step procedural manual for the installation, configuration, and use of

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SELinux, a kernel module and set of Linux programs developed by the National Security Agency to help protect computers running on Linux. Original. (All users)

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