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SELinux System Administration - Second Edition

Sven Vermeulen

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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 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 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.

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