



Fedora Linux System Administration : Install, Manage, and Secure Your Fedora Linux Environments /

Callejas, Alex,
author

Monografía

Configure your Fedora Linux environment as a professional system administration workstation with this comprehensive guide. Key Features: Leverage best practices and post-installation techniques to optimize your Fedora Linux workstation. Learn how to optimize operating system tuning to enhance system administration. Explore Fedora Linux's virtualization resources using QEMU, KVM, and libvirt technologies. Purchase of the print or Kindle book includes a free PDF eBook. Book Description: Fedora Linux is a free and open-source platform designed for hardware, clouds, and containers that enables software developers and community members to create custom solutions for their customers. This book is a comprehensive guide focusing on workstation configuration for the modern system administrator. The book begins by introducing you to the philosophy underlying the open-source movement, along with the unique attributes of the Fedora Project that set it apart from other Linux distributions. The chapters outline best practices and strategies for essential system administration tasks, including operating system installation, first-boot configuration, storage, and network setup. As you make progress, you'll get to grips with the selection and usage of top applications and tools in the tech environment. The concluding chapters help you get a clear understanding of the basics of version control systems, enhanced Linux security, automation, virtualization, and containers, which are integral to modern system administration. By the end of this book, you'll have gained the knowledge needed to optimize day-to-day tasks related to Linux-based system administration. What you will learn: Discover how to configure a Linux environment from scratch. Review the basics of Linux resources and components. Familiarize yourself with enhancements and updates made to common Linux desktop tools. Optimize the resources of the Linux operating system. Find out how to bolster security with the SELinux module. Improve system administration using the tools provided by Fedora. Get up and running with open container creation using Podman. Who this book is for: This book is for individuals who want to use Fedora Linux as a workstation for daily system administration tasks and learn how to optimize the distribution's tools for these functions. Although you should have a basic understanding of Linux and system administration, extensive knowledge of it is not necessary.

<https://rebiunoda.pro.baratznet.cloud:28443/OpacDiscovery/public/catalog/detail/b2FpOmNlbGVicmF0aW9uOmVzLmJhcmF0ei5yZW4vMzQ1NzZM0MTM>

Título: Fedora Linux System Administration Install, Manage, and Secure Your Fedora Linux Environments Alex Callejas

Edición: 1st ed

Editorial: Birmingham, England Packt Publishing Ltd. [2023] 2023

Descripción física: 1 online resource (560 pages)

Nota general: Includes index

Contenido: Cover -- Title Page -- Copyright -- Dedication -- Contributors -- Table of Contents -- Preface -- Part 1: The Fedora Project -- Chapter 1: Linux and Open Source Projects -- A brief history of Linux -- Understanding Linux distributions -- The Fedora Project -- The Red Hat contribution path -- Fedora's mission and foundations -- Contributing to the project -- Fedora as a system administration tool -- The command-line interface -- The basics -- Guided example - releasing space in the filesystem -- Desktop environments -- Summary -- Further reading -- Part 2: Workstation Configuration -- Chapter 2: Best Practices for Installation -- Technical requirements -- Creating the boot media -- Fedora Media Writer -- Booting -- Partitioning local storage -- The first startup -- Package management -- Extra package selection -- Summary -- Further reading -- Chapter 3: Tuning the Desktop Environment -- Technical requirements -- Initial system tuning -- Tuning the swappiness value -- Tuning the desktop experience -- GNOME Tweak Tool -- Customizing the panel and the taskbar -- The taskbar -- Making tasks easy with widgets -- Conky -- Handy applications with docks -- Summary -- Further reading -- Chapter 4: Optimizing Storage Usage -- Technical requirements -- Understanding file formats and filesystems -- Creating a Btrfs filesystem -- Optimizing storage space size -- Space allocation check -- Using the btrfs-usage-report command -- Deep diving into Logical Volume Manager -- Differences between snapshots -- Discovering Stratis storage -- Creating a Stratis pool -- Summary -- Further reading -- Chapter 5: Network and Connectivity -- Technical requirements -- Walking through the basics -- NetworkManager command-line interface (nmcli) -- Tuning wireless connectivity -- Identifying the device -- Finding the best quality network connection -- nm-connection-editor What about security? -- Improving network connectivity using a VPN -- IPSec-based VPN -- OpenVPN -- Configuring a VPN client with the Control Center -- Network performance monitoring -- nmon -- bpytop -- Summary -- Further reading -- Part 3: Productivity Tools -- Chapter 6: Sandbox Applications -- Technical requirements -- Inspecting sandbox applications -- SELinux sandbox -- Diving deep into AppImage apps -- Running an AppImage -- Developing AppImages -- Examining Flatpak applications -- Using Flatpak applications -- Building Flatpak applications -- Summary -- Further reading -- Chapter 7: Text Editors -- Technical requirements -- Text editors and the command line -- Emacs overview -- The basics -- Mastering GNU Emacs -- Nano basics -- The mighty vim -- The basics -- Mastering vim -- Summary -- Further reading -- Chapter 8: LibreOffice Suite -- Technical requirements -- Exploring office tools on Fedora Linux -- WPS Office -- ONLYOFFICE -- Calligra -- Fonts -- LibreOffice -- Getting used to Writer and Calc -- Writer -- Calc -- Creating slides and image management -- Summary -- Further reading -- Chapter 9: Mail Clients and Browsers -- Technical requirements -- Mailing with Evolution -- Mailing with Thunderbird -- Trusty old Firefox -- Customizing Firefox -- Expanding browsing with Google Chrome -- Summary -- Further reading -- Part 4: System Administration Tools -- Chapter 10: System Administration -- Technical requirements -- The three laws of the SysAdmin -- The KISS principle -- Knowing the basic tasks -- A little bit of Git and programming -- Bash scripting -- Git -- The basics -- Don't forget to back up -- Archiving and compression -- Version management with Git -- Automating with Ansible -- The basics -- First steps -- Never-ending study -- Summary -- Chapter 11: Performance Tuning Best Practices -- Technical requirements -- Understanding kernel tuning -- Tuning kernel parameters -- Main tuning - CPU and memory -- Overview of monitoring tools -- Improving CPU usage -- Improving memory usage -- Don't ignore storage tuning -- Improving storage space usage -- Boosting performance with network tuning -- Analyzing metrics -- Summary -- Chapter 12: Untangling Security with SELinux -- Technical requirements -- Learning about mandatory access control -- Labeling and type enforcement -- How SELinux works -- How to troubleshoot SELinux issues -- Labeling -- SELinux needs to know -- Policy bugs -- Hack attack -- Summary -- Further reading -- Chapter 13: Virtualization and Containers -- Technical requirements -- Virtualization with QEMU, KVM, and libvirt -- Management tools -- Streamlining the creation of virtual machines -- Using GNOME Boxes -- Discovering OCI containers with Podman -- Summary -- Further reading -- Index -- About Packt -- Other Books You May Enjoy

ISBN: 1-80461-683-4

Materia Título preferido: Linux

Materia: Operating systems (Computers)

Enlace a formato físico adicional: 9781804618400

Baratz Innovación Documental

- Gran Vía, 59 28013 Madrid
- (+34) 91 456 03 60
- informa@baratz.es