

# Red Hat Enterprise Linux Troubleshooting Guide

*Trust the best-selling Cert Guide series from Pearson IT Certification to help you learn, prepare, and practice for exam success. Cert Guides are built with the objective of providing assessment, review, and practice to help ensure you are fully prepared for your certification exam. Master Red Hat RHCSA (EX200) and RHCE (EX300) exam topics Assess your knowledge with chapter-opening quizzes Review key concepts with exam preparation tasks Test yourself with 4 practice exams (2 RHCSA and 2 RHCE) Gain expertise and knowledge using the companion website, which contains over 40 interactive exercises, 4 advanced CLI simulations, 40 interactive quizzes and glossary quizzes (one for each chapter), 3 virtual machines and more. Red Hat RHCSA/RHCE 7 Cert Guide presents you with an organized test preparation routine through the use of proven series elements and techniques. “Do I Know This Already?” quizzes open each chapter and allow you to decide how much time you need to spend on each section. Exam topic lists make referencing easy. Chapter-ending labs help you drill on key concepts you must know thoroughly. Red Hat RHCSA/RHCE 7, Premium Edition eBook and Practice Test focuses specifically on the objectives for the newest Red Hat RHCSA (EX200) and RHCE (EX300) exams reflecting Red Hat Enterprise Linux 7. Expert Linux trainer and consultant Sander van Vugt shares preparation hints and test-taking tips, helping you identify areas of weakness and improve both your conceptual knowledge and hands-on skills. Material is*

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*presented in a concise manner, focusing on increasing your understanding and retention of exam topics. Well-regarded for its level of detail, assessment features, comprehensive design scenarios, and challenging review questions and exercises, this study guide helps you master the concepts and techniques that will allow you to succeed on the exam the first time. This study guide helps you master all the topics on the new RHCSA (EX200) and RHCE (EX300) exams, including*

*Part 1: RHCSA Basic System Management: Installation, tools, text files, server connections; user, group, and permissions management; network configuration Operating Running Systems: Process management, VMs, package installation, task scheduling, logging, managing partitions and LVM logical volumes Advanced System Administration: Basic kernel management, basic Apache server configuration, boot procedures/troubleshooting Managing Network Services: Using Kickstart; managing SELinux; configuring firewalls, remote mounts, FTP, and time services*

*Part 2: RHCE System Configuration/Management: External authentication/authorization, iSCSI SANs, performance reporting, optimization, logging, routing/advanced networking, Bash scripting System Security: Configuring firewalls, advanced Apache services, DNS, MariaDB, NFS, Samba, SMTP, SSH, and time synchronization*

*Over 60 recipes to help you build, configure, and orchestrate RHEL 7 Server to make your everyday administration experience seamless*

*About This Book- Create fully unattended installations and deploy configurations without breaking a sweat- Discover and kick-start the newest RHEL 7 configuration and management tools through an easy-to-follow, practical approach for a lazy system management- Be*

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*guided by an experienced RHEL expert who is a certified Linux engineer with a passion for open source and open standards*

**Who This Book Is For** Red Hat Enterprise Linux Server Cookbook is for RHEL 7 system administrators and DevOps in need of a practical reference guide to troubleshoot common issues and quickly perform tasks.

**What You Will Learn-** Set up and configure RHEL 7 Server- Use NetworkManager to configure all aspects of your network- Manage virtual environments using libvirt- Set up software repositories- Secure and monitor your RHEL environment- Configure SELinux, and create and apply its policies- Create kickstart scripts to automatically deploy RHEL 7 systems- Use Orchestration and configuration management tools to manage your environment

**In Detail** Dominating the server market, the Red Hat Enterprise Linux operating system gives you the support you need to modernize your infrastructure and boost your organization's efficiency. Combining both stability and flexibility, RHEL helps you meet the challenges of today and adapt to the demands of tomorrow. This practical Cookbook guide will help you get to grips with RHEL 7 Server and automating its installation. Designed to provide targeted assistance through hands-on recipe guidance, it will introduce you to everything you need to know about KVM guests and deploying multiple standardized RHEL systems effortlessly. Get practical reference advice that will make complex networks setups look like child's play, and dive into in-depth coverage of configuring a RHEL system. Also including full recipe coverage of how to set up, configuring, and troubleshoot SELinux, you'll also discover how secure your operating system, as well as how to monitor it.

**Style and approach** This practical guide is packed full of

*hands-on recipes that provide quick solutions to the problems faced when building your RHEL 7 system from scratch using orchestration tools. Each topic is explained sequentially in the process of setting up a system and binding everything together.*

*The book will cover the troubleshooting methods for web applications and services such as Apache and MySQL. Then, you will learn to identify system performance bottlenecks and troubleshoot network issues; all while learning about vital troubleshooting steps such as understanding the problem statement, establishing a hypothesis, and understanding trial, error, and documentation. If you have a basic knowledge of Linux from administration or consultant experience and wish to add to your Red Hat Enterprise Linux troubleshooting skills, then this book is ideal for you. The ability to navigate and use basic Linux commands is expected.*

*As a market-leading, free, open-source Linux operating system (OS), Fedora 10 is implemented in Red Hat Enterprise Linux and serves as an excellent OS for those who want more frequent updates. Bestselling author Christopher Negus offers an ideal companion resource for both new and advanced Linux users. He presents clear, thorough instructions so you can learn how to make Linux installation simple and painless, take advantage of the desktop interface, and use the Linux shell, file system, and text editor. He also describes key system administration skills, including setting up users, automating system tasks, backing up and restoring files, and understanding the latest security issues and threats. Included is both a DVD distribution of Fedora Linux 10 and a bootable Fedora LiveCD. Note: CD-ROM/DVD and other supplementary materials are not included as part of eBook*

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*file.*

*Talking Directly to the Kernel and C Library*

*Linux Basics for Hackers*

*Red Hat Enterprise Linux Troubleshooting Handbook*

*EX200*

*RHCSA Red Hat Enterprise Linux 8:*

*Linux Administration Cookbook*

CentOS is the enterprise-grade Linux operating system built using the same source code as Red Hat Enterprise Linux (RHEL) to provide a free-to-use alternative to Red Hat's commercial Linux offering. The purpose of this book is to build on your understanding of CentOS and to explore those mission-critical services you are entrusted to manage and maintain. Starting with a brief introduction to the overall subject of troubleshooting a CentOS server, this book will take you on a journey across the whole spectrum of issue-based problem solving, which includes active processes, the networking environment, package management, users, folders, files, shared resources, security, databases, and web-based services. By the end of the book, you will have expert-level competency in identifying and

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diagnosing the root causes of CentOS storage, network, and administration issues and resolving them.

"If you're a developer trying to figure out why your application is not responding at 3 am, you need this book! This is now my go-to book when diagnosing production issues. It has saved me hours in troubleshooting complicated operations problems."

–Trotter Cashion, cofounder, Mashion DevOps can help developers, QAs, and admins work together to solve Linux server problems far more rapidly, significantly improving IT performance, availability, and efficiency. To gain these benefits, however, team members need common troubleshooting skills and practices. In DevOps Troubleshooting: Linux Server Best Practices , award-winning Linux expert Kyle Rankin brings together all the standardized, repeatable techniques your team needs to stop finger-pointing, collaborate effectively, and quickly solve virtually any Linux server problem.

Rankin walks you through using DevOps techniques to troubleshoot everything from boot failures and corrupt disks to

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lost email and downed websites. You'll master indispensable skills for diagnosing high-load systems and network problems in production environments. Rankin shows how to Master DevOps' approach to troubleshooting and proven Linux server problem-solving principles Diagnose slow servers and applications by identifying CPU, RAM, and Disk I/O bottlenecks Understand healthy boots, so you can identify failure points and fix them Solve full or corrupt disk issues that prevent disk writes Track down the sources of network problems Troubleshoot DNS, email, and other network services Isolate and diagnose Apache and Nginx Web server failures and slowdowns Solve problems with MySQL and Postgres database servers and queries Identify hardware failures—even notoriously elusive intermittent failures

O'Reilly's Pocket Guides have earned a reputation as inexpensive, comprehensive, and compact guides that have the stuff but not the fluff. Every page of Linux Pocket Guide lives up to this billing. It clearly explains how

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to get up to speed quickly on day-to-day Linux use. Once you're up and running, Linux Pocket Guide provides an easy-to-use reference that you can keep by your keyboard for those times when you want a fast, useful answer, not hours in the man pages. Linux Pocket Guide is organized the way you use Linux: by function, not just alphabetically. It's not the 'bible of Linux'; it's a practical and concise guide to the options and commands you need most. It starts with general concepts like files and directories, the shell, and X windows, and then presents detailed overviews of the most essential commands, with clear examples. You'll learn each command's purpose, usage, options, location on disk, and even the RPM package that installed it. The Linux Pocket Guide is tailored to Fedora Linux--the latest spin-off of Red Hat Linux--but most of the information applies to any Linux system. Throw in a host of valuable power user tips and a friendly and accessible style, and you'll quickly find this practical, to-the-point book a small but mighty resource for Linux



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users.

Develop the skill to manage and administer Red Hat Enterprise Linux and get ready to achieve the RHCSA certification

**Key Features**

- Learn the most common administration and security tasks and manage enterprise Linux infrastructures efficiently
- Assess your knowledge using self-assessment questions based on real-world examples
- Understand how to apply the concepts of core systems administration in the real world

**Book Description**

Whether in infrastructure or development, as a DevOps or site reliability engineer, Linux skills are now more relevant than ever for any IT job, forming the foundation of understanding the most basic layer of your architecture. With Red Hat Enterprise Linux (RHEL) becoming the most popular choice for enterprises worldwide, achieving the Red Hat Certified System Administrator (RHCSA) certification will validate your Linux skills to install, configure, and troubleshoot applications and services on RHEL systems. Complete with easy-to-follow tutorial-style content, self-assessment

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questions, tips, best practices, and practical exercises with detailed solutions, this book covers essential RHEL commands, user and group management, software management, networking fundamentals, and much more. You'll start by learning how to create an RHEL 8 virtual machine and get to grips with essential Linux commands. You'll then understand how to manage users and groups on an RHEL 8 system, install software packages, and configure your network interfaces and firewall. As you advance, the book will help you explore disk partitioning, LVM configuration, Stratis volumes, disk compression with VDO, and container management with Podman, Buildah, and Skopeo. By the end of this book, you'll have covered everything included in the RHCSA EX200 certification and be able to use this book as a handy, on-the-job desktop reference guide. This book and its contents are solely the work of Miguel Perez Colino, Pablo Iranzo Gomez, and Scott McCarty. The content does not reflect the views of their employer (Red Hat Inc.). This work has no connection to Red Hat, Inc. and is

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not endorsed or supported by Red Hat, Inc. What you will learn Deploy RHEL 8 in different footprints, from bare metal and virtualized to the cloud Manage users and software on local and remote systems at scale Discover how to secure a system with SELinux, OpenSCAP, and firewalld Gain an overview of storage components with LVM, Stratis, and VDO Master remote administration with passwordless SSH and tunnels Monitor your systems for resource usage and take actions to fix issues Understand the boot process, performance optimizations, and containers Who this book is for This book is for IT professionals or students who want to start a career in Linux administration and anyone who wants to take the RHCSA 8 certification exam. Basic knowledge of Linux and familiarity with the Linux command-line is necessary.

Red Hat Enterprise Linux Server  
Cookbook

Essentials of Linux Administration

DevOps Troubleshooting

Getting Started with Networking,  
Scripting, and Security in Kali

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Training and Exam Preparation Guide  
(EX200), First Edition

Learn to Install, Administer and Deploy  
RHEL 8 Systems

\* Updated to cover Red Hat Linux Enterprise Workstation with the latest on advanced Linux kernel features, the Tux Web server, the latest Apache 2.x Web server, and the expanded suite of custom configuration tools \* Starts with network planning and Red Hat installation and configuration, then progresses to optimizing network and Internet services and monitoring and maintaining the network \* Examines the basics of Red Hat Linux security and offers trouble-shooting and problem-solving advice \* Includes important new chapters that focus on optimizing standard network services, such as file and print services, and Internet-related servers, such as the Apache Web server Copyright © 2004 by Red Hat, Inc. Material from Chapters 4-6, 8-10, 17 and 21 may be distributed only subject to the terms and conditions set forth in the Open Publication License, V1.0 or later (the latest version is presently available at

<http://www.opencontent.org/openpub/>).

Over 100 recipes to get up and running with the modern Linux administration ecosystem Key Features Understand and implement the core system administration tasks in Linux Discover tools and techniques to troubleshoot your Linux

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system Maintain a healthy system with good security and backup practices

**Book Description** Linux is one of the most widely used operating systems among system administrators, and even modern application and server development is heavily reliant on the Linux platform. The Linux Administration Cookbook is your go-to guide to get started on your Linux journey. It will help you understand what that strange little server is doing in the corner of your office, what the mysterious virtual machine languishing in Azure is crunching through, what that circuit-board-like thing is doing under your office TV, and why the LEDs on it are blinking rapidly. This book will get you started with administering Linux, giving you the knowledge and tools you need to troubleshoot day-to-day problems, ranging from a Raspberry Pi to a server in Azure, while giving you a good understanding of the fundamentals of how GNU/Linux works. Through the course of the book, you 'll install and configure a system, while the author regales you with errors and anecdotes from his vast experience as a data center hardware engineer, systems administrator, and DevOps consultant. By the end of the book, you will have gained practical knowledge of Linux, which will serve as a bedrock for learning Linux administration and aid you in your Linux journey. What you will learn

Install and manage a Linux server, both locally and in the cloud Understand how

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to perform administration across all Linux distros Work through evolving concepts such as IaaS versus PaaS, containers, and automation Explore security and configuration best practices Troubleshoot your system if something goes wrong Discover and mitigate hardware issues, such as faulty memory and failing drives Who this book is for If you are a system engineer or system administrator with basic experience of working with Linux, this book is for you.

The definitive guide to administering a Red Hat Enterprise Linux 6 network Linux professionals who need a go-to guide on version 6 of Red Hat Enterprise Linux (RHEL) will find what they need in this comprehensive Sybex book. It covers RHEL administration in detail, including how to set up and manage web and mail services, use RHEL in enterprise environments, secure it, optimize storage, configure for virtualization and high availability, and much more. It also provides a great study aid for those preparing for either the RHCSA or RHCE certification exam. Red Hat is the Linux market leader, and Red Hat administrators are in demand. This Sybex guide is a comprehensive resource on Red Hat Enterprise Linux administration and useful for those preparing for one of the Red Hat certification exams. Covers setting up and managing web and mail services, using RHEL in enterprise environments, securing RHEL, and

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optimizing storage to fit your environment Explores advanced RHEL configurations, including virtualization and high availability Red Hat Enterprise Linux 6 Administration is the guide Linux professionals and Red Hat administrators need to stay current on the newest version.

More than 50 percent new and revised content for today's Linux environment gets you up and running in no time! Linux continues to be an excellent, low-cost alternative to expensive operating systems. Whether you're new to Linux or need a reliable update and reference, this is an excellent resource. Veteran bestselling author Christopher Negus provides a complete tutorial packed with major updates, revisions, and hands-on exercises so that you can confidently start using Linux today. Offers a complete restructure, complete with exercises, to make the book a better learning tool Places a strong focus on the Linux command line tools and can be used with all distributions and versions of Linux Features in-depth coverage of the tools that a power user and a Linux administrator need to get started This practical learning tool is ideal for anyone eager to set up a new Linux desktop system at home or curious to learn how to manage Linux server systems at work.

Linux Server Best Practices

Insightful recipes to work with system administration tasks on Linux

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Red Hat Enterprise Linux 4 For Dummies  
Red Hat® Certified Technician & Engineer (RHCT  
and RHCE) Training Guide and Administrator's  
Reference

With Troubleshooting Skills

***Arguably one of the most highly regarded and widely used enterprise level operating systems available today is the Red Hat Enterprise Linux 8 distribution. Not only is it considered to be among the most stable and reliable operating systems, it is also backed by the considerable resources and technical skills of Red Hat, Inc. Red Hat Enterprise Linux 8 Essentials is designed to provide detailed information on the installation, use and administration of the Red Hat Enterprise Linux 8 distribution. For beginners, the book covers topics such as operating system installation, the basics of the GNOME desktop environment, configuring email and web servers and installing packages and system updates using App Streams. Additional installation topics such as dual booting with Microsoft Windows are also covered, together with all important security topics such as configuring a firewall and user and group administration. For the***



***experienced user, topics such as remote desktop access, the Cockpit web interface, logical volume management (LVM), disk partitioning, swap management, KVM virtualization, Secure Shell (SSH), Linux Containers and file sharing using both Samba and NFS are covered in detail to provide a thorough overview of this enterprise class operating system.***

***> Covers Red Hat Enterprise Linux 8 > Covers ALL official exam objectives for the RHCSA exam based on Red Hat Enterprise Linux 8 > Equally good for self-study and in-class training > 81 Step-by-Step exercises > 70 Do-It-Yourself Challenge Labs > 375 Check Your Understanding Questions & Answers > Concepts explained with diagrams > Commands and options summarized in tables > Exam tips included > 4 Unique Sample RHCSA Exams This book has 21 chapters that are organized logically. It covers the topics on local RHEL 8 installation; initial interaction with the system and basic commands; compression and archiving; file editing and manipulation; standard and special permissions; file searching and access***

***controls; user monitoring and authentication files; users, groups, and password aging; bash shell features and startup files; processes and task scheduling; basic and advanced software administration techniques; system boot process and bootloader; kernel management and system initialization; logging and system tuning; basic and advanced storage management tools and solutions; local and remote file systems and swap regions; network device and connection configuration; time synchronization and hostname resolution; the secure shell service; and firewall and SELinux controls. Each chapter highlights the major topics and relevant exam objectives at the beginning, and ends with review questions & answers and Do-It-Yourself challenge labs. Throughout the book, figures, tables, screen shots, examples, and exam tips have been furnished to support explanation and exam preparation. This book includes four sample exams for RHCSA, which are expected to be done using the knowledge and skills attained from reading the material and practicing the exercises and***

***challenge labs. The labs and the sample exams include references to relevant topics and/or exercises.***

***Linux is a fast-growing operating system with power and appeal, and enterprises worldwide are quickly adopting the system to utilize its benefits. But as with all operating systems, performance problems do occur causing system administrators to scramble into action. Finally, there is a complete reference for troubleshooting Linux-quickly! Linux Troubleshooting for System***

***Administrators and Power Users is THE book for locating and solving problems and maintaining high performance in Red Hat® Linux and Novell® SUSE® Linux systems. This book not only teaches you how to troubleshoot Linux, it shows you how the system works-so you can attack any problem at its root. Should you reinstall if Linux does not boot? Or can you save time by troubleshooting the problem? Can you enhance performance when Linux hangs or runs slowly? Can you overcome problems with printing or accessing a network? This book provides easy-to-follow examples and an extensive look at***

***the tools, commands, and scripts that make Linux run properly. A troubleshooting guide for all Linux users: Focuses on common problems with start-up, printing, login, the network, security, and more Restore Linux when boot, startup, or shutdown fails-and reinstall Linux properly when all troubleshooting fails Explains how to use some of the most popular Linux performance tools, including top, sar, vmstat, iostat, and free Handle storage problems and CPU slamming to ensure high Linux performance Solve hardware device problems by deciphering error messages and using the lspci tool Use backup/recover commands and tape libraries to create proper backups Identify and correct remote and network printing problems using spooler commands Gone are the days of searching online for solutions that are out of date and unreliable. Whether you are a system admin, developer, or user, this book is an invaluable resource for ensuring that Linux runs smoothly, efficiently, and securely.***

***\* The latest edition of this perennial bestseller offers clear, thorough coverage***

***of the basic user and administrator skills needed to master the latest version of both Red Hat Enterprise Linux and Fedora \* This new edition includes key technical support advice for Fedora, guidelines for contributing to the Fedora project, and new sections on managing and manipulating file systems and disk tuning, system rescue, VNC (virtual network computing), and VmWare \* A new chapter helps Mac OS 9 and OS X users work closely with Linux servers \* Features step-by-step instructions for making Linux installation simple and painless, taking advantage of the new desktop interface, and using the Linux shell, file system, and text editor \* Key topics include system administration essentials such as setting up users, automating system tasks, backing up and restoring files, and understanding the latest security issues and threats***

***Linux Bible 2011 Edition***

***DevOps with OpenShift***

***Boot up to Ubuntu, Fedora, KNOPPIX, Debian, openSUSE, and 13 Other Distributions***

***RHCSA & RHCE Red Hat Enterprise Linux 7: Training and Exam Preparation***

***Guide (EX200 and EX300), Third Edition  
Linux Pocket Guide  
Red Hat Enterprise Linux (RHEL) 7 New  
Features***

More than a quarter of a million copies sold in previous editions! Freedom is a feature With Fedora's new Online Desktop, you are free to shape your desktop environment to include the services, applications, and online friends you desire. As always, Fedora's total dedication to freedom lets you draw on thousands of free software packages to create the exact desktop or server computer you need. Fedora puts together the software (provided here on CD and DVD). This book acts as a guide to everything from playing music and writing documents to configuring many powerful Web, file, print, DHCP, and database servers. Customize Fedora or Red Hat Enterprise Linux to: Explore your computer or the Internet from GNOME®, KDE®, or Online Desktops Manage and use documents, spreadsheets, presentations, music, and images Try the new advanced PulseAudio sound server Draw from online software repositories with Package Manager and Package Updater Build an Internet server with e-mail, Web, DNS, FTP, and database services Secure your computer with firewalls, password protection, and SELinux Try out cutting-edge Fedora 8 features: Use Codeina to get legal software to play MP3, Windows media, and other audio/video formats Organize photos, music, friends, docs, and Web favorites in the new experimental Online Desktop Explore the latest in KVM and QEMU virtualization and AIGLX 3D-desktop What's on the DVD and CD-ROM? Install Fedora 8 (8GB) from DVD Boot Fedora 8 GNOME Live CD, and then install its contents to your hard drive System Requirements: Please see the Preface and Appendix A for details and complete system requirements. Open for more! Check out the new Online Desktop Find ten cool things to do with Fedora Run a Fedora 8 quick install Add pop and power with Online Desktop and 3D acceleration

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Organizing the people, places, and things you need on your desktop is now easier with the new GNOME Online Desktop. Get organized, then pile on some bling with 3D-accelerated desktop effects. Put friends, photos, and fun on your new Online Desktop. Your favorite people and your online favorites are totally accessible from the new GNOME Online Desktop. Play with 3D desktop animations. Continued improvements in 3D software let you rotate workspaces on a 3D cube, choose 3D minimize effects, and set 3D wobble effects.

This comprehensive guide can help you administer Red Hat Enterprise Linux 5 effectively in any production environment, no matter how complex or challenging. Long-time Red Hat insider Tammy Fox brings together today's best practices for the entire system lifecycle, from planning and deployment through maintenance and troubleshooting. Fox shows how to maximize your efficiency and effectiveness by automating day-to-day maintenance through scripting, deploying security updates via Red Hat Network, implementing central identity management services, and providing shared data with NFS and Samba. Red Hat Enterprise Linux 5 Administration Unleashed contains extensive coverage of network and web services, from the Apache HTTP server and Sendmail email services to remote login with OpenSSH. Fox also describes Red Hat's most valuable tools for monitoring and optimization and presents thorough coverage of security—including a detailed introduction to Security-Enhanced Linux (SELinux).

Description Red Hat Enterprise Linux (RHEL) 7 New Features LiveLessons lets you update your Red Hat Skills! In this unique video product, expert Red Hat Certified Instructor and author Sander van Vugt features what's new in Red Hat Enterprise Linux version 7. Detailing what's new, revised, and improved so you can update your skills quickly and easily. This course was created for experienced Linux administrators and focuses on new features only. Major topics include: Installing Red Hat Enterprise Linux Server Configuring Networking Managing Systemd services Integrating

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journal and rsyslog logging Understanding GRUB2 Managing the XFS and btrfs file system Troubleshooting RHEL 7 boot problems Configuring a firewall with firewalld Managing DNS Managing Time Synchronization About the Instructor Sander van Vugt is an independent Linux trainer, author and consultant living in the Netherlands. Sander has written numerous books about different Linux related topics, and many articles for Linux publications around the world. Sander has been teaching Red Hat, SUSE and LPI Linux classes since 1994. As a consultant he is specialized in Linux High Availability solutions and Performance Optimization. More information about Sander is on his website at [www.sandervanvugt.com](http://www.sandervanvugt.com) . Skill Level Intermediate to advanced What You Will Learn Provides an easy-to-use and cost effective means to update skills to RHEL 7 Provides multimedia tutorials that users can apply to real world scenarios Who Should Take This Course Primary audience Skilled Linux administrators that either already have a lot of experience with previous versions of Red Hat Enterprise Linux, or are holding a current RHCSA or RHCE certificate on previous versions of Red Hat (estimate approximately 100,000 certified professionals worldwide). Because the changes between RHEL 6 and RHEL 7, even skilled professionals will need information on how to use these new features. Secondary audience Those working towards an RHCE certificate, particularly if their RHCSA certificate was on RHEL 6. Table of Contents Lesson 1: Installing Red Hat Enterprise Linux 7 Learning Objectives 1.1 System Requirements 1.2 Performing an Advanced RHEL Server Installation Lesson 2: Managing Systemd Services Learning Objectives 2.1 Understanding Units 2.2 Understanding Systemd Targets 2.3 Managing Services in Systemd 2.4 Understanding Cgroups 2.5 Mounting File Systems Through Systemd 2.6 Managing Automount Through Systemd Lesson 3: Co... This practical, tutorial-style book uses the Kali Linux distribution to teach Linux basics with a focus on how hackers would use them. Topics include Linux command line basics, filesystems, networking,



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BASH basics, package management, logging, and the Linux kernel and drivers. If you're getting started along the exciting path of hacking, cybersecurity, and pentesting, Linux Basics for Hackers is an excellent first step. Using Kali Linux, an advanced penetration testing distribution of Linux, you'll learn the basics of using the Linux operating system and acquire the tools and techniques you'll need to take control of a Linux environment. First, you'll learn how to install Kali on a virtual machine and get an introduction to basic Linux concepts. Next, you'll tackle broader Linux topics like manipulating text, controlling file and directory permissions, and managing user environment variables. You'll then focus in on foundational hacking concepts like security and anonymity and learn scripting skills with bash and Python. Practical tutorials and exercises throughout will reinforce and test your skills as you learn how to:

- Cover your tracks by changing your network information and manipulating the rsyslog logging utility
- Write a tool to scan for network connections, and connect and listen to wireless networks
- Keep your internet activity stealthy using Tor, proxy servers, VPNs, and encrypted email
- Write a bash script to scan open ports for potential targets
- Use and abuse services like MySQL, Apache web server, and OpenSSH
- Build your own hacking tools, such as a remote video spy camera and a password cracker

Hacking is complex, and there is no single way in. Why not start at the beginning with Linux Basics for Hackers?

Red Hat Enterprise Linux 8 Essentials

Mastering Red Hat Enterprise Linux 3

Fedora Linux Toolbox

Fedora 9 and Red Hat Enterprise Linux Bible

Real World Skills for Red Hat Administrators

Red Hat Enterprise Linux 8 Administration

The industry favorite Linux guide, updated for Red Hat Enterprise Linux 7 and the cloud Linux Bible, 9th Edition is the ultimate hands-on Linux user guide, whether you're a

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true beginner or a more advanced user navigating recent changes. This updated ninth edition covers the latest versions of Red Hat Enterprise Linux 7 (RHEL 7), Fedora 21, and Ubuntu 14.04 LTS, and includes new information on cloud computing and development with guidance on Openstack and Cloudforms. With a focus on RHEL 7, this practical guide gets you up to speed quickly on the new enhancements for enterprise-quality file systems, the new boot process and services management, firewalld, and the GNOME 3 desktop. Written by a Red Hat expert, this book provides the clear explanations and step-by-step instructions that demystify Linux and bring the new features seamlessly into your workflow. This useful guide assumes a base of little or no Linux knowledge, and takes you step by step through what you need to know to get the job done. Get Linux up and running quickly Master basic operations and tackle more advanced tasks Get up to date on the recent changes to Linux server system management Bring Linux to the cloud using Openstack and Cloudforms Linux Bible, 9th Edition is the one resource you need, and provides the hands-on training that gets you on track in a flash.

This is the eBook version of the print title. Learn, prepare, and practice for Red Hat RHCSA 8 (EX200) exam success with this Cert Guide from Pearson IT Certification, a leader in IT Certification learning. Master Red Hat RHCSA 8 EX200 exam topics Assess your knowledge with chapter-ending quizzes Review key concepts with exam-preparation tasks Practice with four unique practice

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tests Learn from two full hours of video training from the author's Red Hat Certified System Administrator (RHCSA) Complete Video Course, 3rd Edition. Red Hat RHCSA 8 Cert Guide is a best-of-breed exam study guide. Leading Linux consultant, author, and instructor Sander van Vugt shares preparation hints and test-taking tips, helping you identify areas of weakness and improve both your conceptual knowledge and hands-on skills. Material is presented in a concise manner, focusing on increasing your understanding and retention of exam topics. The book presents you with an organized test-preparation routine through the use of proven series elements and techniques. Exam topic lists make referencing easy. Chapter-ending Exam Preparation Tasks help you drill on key concepts you must know thoroughly. Review questions help you assess your knowledge, and a final preparation chapter guides you through tools and resources to help you craft your final study plan. Well regarded for its level of detail, assessment features, and challenging review questions and exercises, this study guide helps you master the concepts and techniques that will enable you to succeed on the exam the first time, including Basic system management: Installation, tools, file management, text files, RHEL8 connections, user/group management, permissions, and network configuration Operating running systems: Managing software, processes, storage, and advanced storage; working with systemd; scheduling tasks; and configuring logging Advanced system administration: Managing the kernel and boot procedures, essential

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troubleshooting, bash shell scripting Managing network services: Configuring SSH, firewalls, and time services; managing Apache HTTP services and SE Linux; and accessing network storage

Red Hat Enterprise Linux Troubleshooting GuidePackt Publishing Ltd

Highlights: > Updated to the latest version of Red Hat Enterprise Linux 7 > Upated to cover ALL official exam objectives for the RHCSA and RHCE exams based on Red Hat Enterprise Linux 7 > Equally good for self-study and in-class training > Step-by-step exercises to accomplish tasks > Do-It-Yourself challenge labs at the end of each chapter > Concepts explained with diagrams > Commands and options summarized in tables > Exam tips included > FOUR scenario-based sample exams (TWO for RHCSA and TWO for RHCE) > TWENTY-FIVE chapters (THIRTEEN for RHCSA and TWELVE for RHCE) > Separate sections on RHCSA and RHCE RHCSA Section (chapters 1 to 13): covers local and network (automated with kickstart) RHEL7 installations, general Linux concepts and basic tools, compression and archiving, text file editing, file manipulation and security, processes and task scheduling, bash shell features, software package administration, yum repository configuration, host virtualization, virtual machines, system boot, kernel management, system initialization and service management with systemd, local logging, users and groups, LVM and file systems, AutoFS, Swap, ACLs, firewall, SELinux, network interfaces, NTP/LDAP clients, SSH, and TCP

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Wrappers. RHCE Section (chapters 14 to 25): covers shell scripting, interface bonding and teaming, IPv6 and routing configuration, NTP, firewalld, Kerberos authentication, kernel tuning, resource utilization reporting, network logging, block storage sharing with iSCSI, file sharing with NFS and Samba/CIFS, HTTP/HTTPS web servers and virtual hosting, Postfix mail SMTP, DNS, and MariaDB. Each chapter lists major topics and relevant exam objectives in the beginning and ends with a summary followed by review questions/answers and Do-It-Yourself challenge labs.

Troubleshooting CentOS

Linux Troubleshooting for System Administrators and Power Users

Red Hat RHCSA 8 Cert Guide

Fedora 11 and Red Hat Enterprise Linux Bible

Red Hat Enterprise Linux Administration Unleashed

Red Hat Fedora and Enterprise Linux 4 Bible

*Master All the Techniques You Need to Succeed with Fedora and Red Hat Enterprise Linux in the Workplace*  
*You're studying Fedora and Red Hat Enterprise Linux with a single goal: to succeed with these state-of-the-art operating systems in real workplace environments. In this book, one of the world's leading Linux experts brings together all the knowledge you'll need to achieve that goal. Writing in plain English, best-selling author Mark Sobell explains Linux clearly and effectively, focusing on the skills you will actually use as a professional administrator, user, or programmer. Sobell assumes no prior Linux knowledge: He starts at the very beginning*

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*and walks you through every topic and skill that matters. Step by step, you'll learn how to install and configure Linux from the accompanying DVD, navigate its graphical user interfaces, set up Linux to provide file/print sharing and Internet services, make sure Linux desktops and networks are as secure as possible, work with the powerful command line, and administer Linux in real business environments. Mark Sobell has taught hundreds of thousands of Linux and UNIX professionals. He knows every Linux nook and cranny—and he never forgets what it's like to be new to Linux. Whatever your Linux-related career goals, this book gives you all you need—and more. Compared with the other Linux books out there, A Practical Guide to Fedora™ and Red Hat® Enterprise Linux®, College Edition, delivers Complete, up-to-the-minute coverage of Fedora 8 and Enterprise Linux 5 Deeper coverage of the command line and the GNOME and KDE GUIs, including customizing the desktop More practical coverage of file sharing using Samba, NFS, and FTP More usable, realistic coverage of Internet server configuration, including Apache, sendmail, NFS, DNS/BIND, and LDAP More state-of-the-art security techniques, including SELinux (Security Enhanced Linux), ACLs (Access Control Lists), firewall setup using both the Red Hat GUI and iptables, and a full chapter on OpenSSH More and better coverage of “meat-and-potatoes” system/network administration tasks A more practical introduction to writing bash shell scripts Complete instructions on keeping Linux systems up-to-date using yum And much more...including a 500+ term glossary and a comprehensive index to help you find*

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*what you need fast! Includes DVD! Get the full version of the Fedora 8 release!*

*Master the latest version of Fedora and Red Hat Enterprise Linux with the step-by-step instructions and hands-on advice in Fedora 9 and Red Hat Enterprise Linux Bible. Learn key system administration skills like setting users and automating system tasks, understand the latest security issues and threats, and gain confidence with using and customizing the desktop menus, icons, and window manager. Updated every six months to correspond with the latest Fedora release, this book includes an official Fedora 9 LiveCD so that you can practice your knowledge and improve your skills. Note: CD-ROM/DVD and other supplementary materials are not included as part of eBook file.*

*For many organizations, a big part of DevOps' appeal is software automation using infrastructure-as-code techniques. This book presents developers, architects, and infra-ops engineers with a more practical option. You'll learn how a container-centric approach from OpenShift, Red Hat's cloud-based PaaS, can help your team deliver quality software through a self-service view of IT infrastructure. Three OpenShift experts at Red Hat explain how to configure Docker application containers and the Kubernetes cluster manager with OpenShift's developer- and operational-centric tools. Discover how this infrastructure-agnostic container management platform can help companies navigate the murky area where infrastructure-as-code ends and application automation begins. Get an application-centric view of automation—and understand why it's important Learn*

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*patterns and practical examples for managing continuous deployments such as rolling, A/B, blue-green, and canary Implement continuous integration pipelines with OpenShift's Jenkins capability Explore mechanisms for separating and managing configuration from static runtime software Learn how to use and customize OpenShift's source-to-image capability Delve into management and operational considerations when working with OpenShift-based application workloads Install a self-contained local version of the OpenShift environment on your computer*

*In this handy, compact guide, you'll explore a ton of powerful Fedora Linux commands while you learn to use Fedora Linux as the experts do: from the command line. Try out more than 1,000 commands to find and get software, monitor system health and security, and access network resources. Then, apply the skills you learn from this book to use and administer desktops and servers running Fedora, CentOS, Red Hat Enterprise Linux, or any other Linux distribution.*

*Linux Bible*

*Cloud Deployments Made Easy*

*Red Hat RHCSA/RHCE 7 Cert Guide*

*Update Your Red Hat Skills*

*Red Hat Linux Networking and System Administration*

*1000+ Commands for Fedora, CentOS and Red Hat*

*Power Users*

**UNIX, UNIX LINUX & UNIX TCL/TK. Write software that makes the most effective use of the Linux system, including the kernel and core system libraries. The majority of both Unix and Linux code is still written at the**



system level, and this book helps you focus on everything above the kernel, where applications such as Apache, bash, cp, vim, Emacs, gcc, gdb, glibc, ls, mv, and X exist. Written primarily for engineers looking to program at the low level, this updated edition of Linux System Programming gives you an understanding of core internals that makes for better code, no matter where it appears in the stack. -- Provided by publisher.

Identify, capture and resolve common issues faced by Red Hat Enterprise Linux administrators using best practices and advanced troubleshooting techniques About This Book Develop a strong understanding of the base tools available within Red Hat Enterprise Linux (RHEL) and how to utilize these tools to troubleshoot and resolve real-world issues Gain hidden tips and techniques to help you quickly detect the reason for poor network/storage performance Troubleshoot your RHEL to isolate problems using this example-oriented guide full of real-world solutions Who This Book Is For If you have a basic knowledge of Linux from administration or consultant experience and wish to add to your Red Hat Enterprise Linux troubleshooting skills, then this book is ideal for you. The ability to navigate and use basic Linux commands is expected. What You Will Learn Identify issues that need rapid resolution against long term root cause analysis Discover commands for testing network connectivity such as telnet, netstat, ping, ip and curl Spot performance issues with commands such as top, ps, free, iostat, and vmstat Use tcpdump for traffic analysis Repair a degraded file system and rebuild a software raid Identify and troubleshoot hardware issues using dmesg Troubleshoot custom applications with strace

**and knowledge of Linux resource limitations** In Detail Red Hat Enterprise Linux is an operating system that allows you to modernize your infrastructure, boost efficiency through virtualization, and finally prepare your data center for an open, hybrid cloud IT architecture. It provides the stability to take on today's challenges and the flexibility to adapt to tomorrow's demands. In this book, you begin with simple troubleshooting best practices and get an overview of the Linux commands used for troubleshooting. The book will cover the troubleshooting methods for web applications and services such as Apache and MySQL. Then, you will learn to identify system performance bottlenecks and troubleshoot network issues; all while learning about vital troubleshooting steps such as understanding the problem statement, establishing a hypothesis, and understanding trial, error, and documentation. Next, the book will show you how to capture and analyze network traffic, use advanced system troubleshooting tools such as strace, tcpdump & dmesg, and discover common issues with system defaults. Finally, the book will take you through a detailed root cause analysis of an unexpected reboot where you will learn to recover a downed system.

**Style and approach** This is an easy-to-follow guide packed with examples of real-world core Linux concepts. All the topics are presented in detail while you're performing the actual troubleshooting steps. Provides just what administrators need to configure, manage, maintain, and upgrade a Red Hat Enterprise Linux (RHEL) system Red Hat is the most popular Linux distribution, with 70 percent of the U.S. market; RHEL subscriptions climbed to 87,000 during the quarter ending

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**February 2004-up 85 percent Covers all four RHEL versions-Desktop, Workstation, Enterprise Server, and Application Server Delivers the lowdown on the X Window System, printer configuration, Samba, Internet server set up, administration of users and groups, backups and file restoration, and security**

**\* An indispensable resource for Fedora users who must now work without customer support from Red Hat, Inc., covering critical troubleshooting techniques for networks, internal servers, and external servers \* Chris Negus is a well-known Linux authority and also the author of the top-selling Red Hat Linux Bible (0-7645-4333-4); Thomas Weeks is a trainer and administrator who manages hundreds of Red Hat Linux systems \* Covers all of the most common Fedora problem areas: firewalls, DNS servers, print servers, Samba, NFS, Web servers, FTP servers, e-mail servers, modems, adding hardware, and hardware certification \* Features easy-to-use flowcharts that guide administrators step by step through common Fedora troubleshooting scenarios \* A companion Web site offers troubleshooting updates to keep pace with the frequent Fedora Core releases as well as a forum for exchanging troubleshooting tips**

**Training and Exam Preparation Guide (EX200 and EX300)**

**Red Hat Enterprise Linux Troubleshooting Guide  
A Practical Guide to Fedora and Red Hat Enterprise Linux**

**Fedora 10 and Red Hat Enterprise Linux Bible  
Red Hat Enterprise Linux 7 (EX200 and EX300)  
Linux System Programming**

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Over 60 recipes to help you build, configure, and orchestrate RHEL 7 Server to make your everyday administration experience seamless About This Book Create fully unattended installations and deploy configurations without breaking a sweat Discover and kick-start the newest RHEL 7 configuration and management tools through an easy-to-follow, practical approach for a lazy system management Be guided by an experienced RHEL expert who is a certified Linux engineer with a passion for open source and open standards Who This Book Is For Red Hat Enterprise Linux Server Cookbook is for RHEL 7 system administrators and DevOps in need of a practical reference guide to troubleshoot common issues and quickly perform tasks. What You Will Learn Set up and configure RHEL 7 Server Use NetworkManager to configure all aspects of your network Manage virtual environments using libvirt Set up software repositories Secure and monitor your RHEL environment Configure SELinux, and create and apply its policies Create kickstart scripts to automatically deploy RHEL 7 systems Use Orchestration and configuration management tools to manage your environment In Detail Dominating the server market, the Red Hat Enterprise Linux operating system gives

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you the support you need to modernize your infrastructure and boost your organization's efficiency. Combining both stability and flexibility, RHEL helps you meet the challenges of today and adapt to the demands of tomorrow. This practical Cookbook guide will help you get to grips with RHEL 7 Server and automating its installation. Designed to provide targeted assistance through hands-on recipe guidance, it will introduce you to everything you need to know about KVM guests and deploying multiple standardized RHEL systems effortlessly. Get practical reference advice that will make complex networks setups look like child's play, and dive into in-depth coverage of configuring a RHEL system. Also including full recipe coverage of how to set up, configuring, and troubleshoot SELinux, you'll also discover how secure your operating system, as well as how to monitor it. Style and approach This practical guide is packed full of hands-on recipes that provide quick solutions to the problems faced when building your RHEL 7 system from scratch using orchestration tools. Each topic is explained sequentially in the process of setting up a system and binding everything together. For desktop or business, here's all the

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Linux you need Whether you want the latest Linux software in Fedora or a stable Red Hat Enterprise Linux for your business, this book covers it all. Install Fedora Core 4 from the DVD or two CDs included and learn to use Linux as a desktop system or an Internet server. Check out fun applications for surfing the Web and doing office tasks. Learn to manage basic system administration, and move up to running your own Web, mail, print, or file server. Configure Fedora or Red Hat Enterprise Linux to:

- Browse the Web with Firefox
- Read and send e-mail with Evolution
- Create documents, spreadsheets, or presentations with OpenOffice.org
- Set up networked Web, mail, file, database, LDAP, print, or other servers
- Transition your Fedora skills to Enterprise Linux with:

- Descriptions of RHEL products, features, and services
- Pointers to professional RHEL training and certification

Install complete Fedora Core 4 from DVD Using the bonus DVD, you can:

- Boot the DVD to check and prepare your computer before installing Fedora (using KNOPPIX)
- Install the complete Fedora Core 4 Linux operating system (all source code packages included)
- Install desktop Fedora Core 4 from CD

Using the bonus 2-CD set, you can:

- Select the software you need for a well-stocked

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desktop system Add key server features to use with your desktop Fedora system Open for more! Find ten cool things you can do with Fedora Use KNOPIX to test and prepare your computer Get your Windows stuff working in Linux

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The leading Fedora book—over a quarter of a million copies sold of previous editions! What better way to learn Fedora 11 than with the leading Fedora book from the best-selling Linux author, Christopher Negus with Eric Foster Johnson? Whether you're new to Linux or an advanced user, this power-packed guide is loaded with what you need. Install, run, and manage the latest version of Fedora and Red Hat Enterprise Linux—then polish your system administration skills and get up to speed on the very latest in networking, desktop, and server enhancements. Master the Linux shell, file system, and text editor; how to set up users and automate system tasks; and much more in over a thousand pages of step-by-step instruction. Boot the full DVD of Fedora 11, including almost all binary code packages, or do a Live Install of the CD for rescuing, troubleshooting, or installing Fedora. Fedora is a free, open source Linux operating system sponsored by Red Hat as an open source

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community project; the technological innovations from the Fedora Project are then implemented in Red Hat's commercial offering, Red Hat Enterprise Linux. Covers step-by-step instructions for making Linux installation simple and painless; how to take advantage of the desktop interface (including coverage of AIGLX); and how to use the Linux shell, file system, and text editor. Also covers setting up users; automating system tasks; backing up and restoring files; dealing with the latest security issues and threats; using and customizing the desktop menus, icons, window manager, and xterm; and how to create and publish formatted documents with Linux applications. The DVD and CD that come with the book include Fedora Linux 11 and an official Fedora 11 LiveCD (bootable and installable). This is the book you need to succeed with Fedora 11 and Red Hat Enterprise Linux. Note: CD-ROM/DVD and other supplementary materials are not included as part of eBook file. This book is based on Red Hat® Enterprise Linux 5 (RHEL 5) and is intended for individuals who plan to take the new Red Hat® Certified Technician (RH202) and/or Red Hat® Certified Engineer (RH302) exams and pass them, want to use it as a quick on-the-job resource or like to learn RHEL



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from the beginning in an easy-to-understand way. The book has 31 chapters and facilitates readers to grasp concepts, understand implementation procedures, learn command syntax, configuration files and daemons involved, and comprehend troubleshooting. The chapters are divided into four areas: Linux Essentials, RHEL System Administration, RHEL Network and Security Administration, and RHEL Troubleshooting.

01. Linux Essentials (Chapters 1 to 7) covers the basics of Linux. Information provided includes general Linux concepts, basic commands, file manipulation and file security techniques, text file editors, shell features, basic shell and awk programming and other essential topics. These chapters are good for gaining an overall understanding of Linux and cover common skills useful for both exams.

02. RHEL System Administration (Chapters 8 to 19) covers system administration concepts and topics including hardware management, local installation, X Window and desktop managers, software and user/group account administration, disk partitioning using standard, RAID and LVM, file system and swap management, system shutdown and boot procedures, kernel management, backup, restore and compression functions, print

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services administration, and automation and system logging. These chapters cover objectives outlined for the RH202 exam.

## 03. RHEL Network and Security

Administration (Chapters 20 to 30) covers network and security administration concepts and topics such as OSI and TCP/IP reference models, subnetting and IP aliasing, network interface administration, routing, basic network testing and troubleshooting tools, naming services (DNS, NIS, LDAP) and DHCP; Internet services and electronic mail management, time synchronization with NTP, resource sharing with NFS, AutoFS and Samba, network-based and hands-free automated installation, Apache web server and Squid caching/proxy server, secure shell, PAM, TCP Wrappers, IPTables, NATting, SELinux and recommendations for system hardening. These chapters cover objectives set for the RH302 exam.

04. RHEL Troubleshooting (Chapter 31) covers a number of sample system, network and security troubleshooting scenarios. This chapter covers objectives related to diagnoses and troubleshooting for both exams. The book covers ALL official exam objectives and includes several exercises for exam practice. This book is not a replacement for RHCT®/RHCE® training

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courses offered by Red Hat, Inc., but may be used to prepare for both the exams. The information contained in this book is not endorsed by Red Hat, Inc. Good Luck on the exams . . . . .

Master Linux administration skills and prepare for the RHCSA certification exam  
Fedora 8 and Red Hat Enterprise Linux Bible

Red Hat?Fedora?Linux?2 Bible

Red Hat Enterprise Linux 6 Administration  
Linux Troubleshooting Bible

What you'll learn-Linux Administration with Troubleshooting Skills-Linux basic concepts, Introduction & History of Unix/Linux-Linux Interview Questions and Answers-Bash profile, Variables & Standard Input output Redirecting-Linux User Administration-Permissions in Red Hat Linux-Controlling Access to files with ACLs-Process Management-Kernel Modules-Disk Partitions, File Systems Creations & RAID Configuration-Logical Volume Manager Administration-RPM (Red Hat Package Manager)-YUM (Yellowdog Updater, Modified)-Linux OS Minor Upgrade-FTP - File Transfer Protocol-Apache Web Server Administration-DNS (Domain Name System)-Samba Server Concepts & Configuration-Network File System (NFS)-Automating Installation using kickstart-Networking Concepts in Linux-Linux Performance Monitoring-Troubleshooting Linux Boot Problems in Linux (Basic System Recovery)-Overview of Red Hat Enterprise Linux 7-GRand Unified BootLoader (Grub2)-Kdump configuration on RHEL 7-Overview of Red Hat Satellite 6.2-Managing SELinux Security-Backup and Restore-Linux

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