

Red Hat Enterprise Linux Server Cookbook

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[Professional Red Hat Enterprise Linux 3](#) - Kapil Sharma 2005-03-11

What is this book about? Professional Red Hat Enterprise Linux 3 is a complete professional guide to setting up, configuring, and deploying Red Hat Enterprise Linux in the corporate production environment. The book focuses on Enterprise Server and Advanced Server features, including the key areas of high availability with the Red Hat Cluster Suite, Red Hat Network Control Center, and Red Hat Enterprise applications such as the Content Management System and portal server. Other key unique features include kernel tuning for various performance profiles; advanced Apache configuration; Tux installation/maintenance; building high-performance FTP servers; building high-performance mail servers (which means replacing Sendmail); Mailing list management; how to efficiently add, remove, or modify 100 users at the same time; and a discussion of disk quota management and monitoring. What does this book cover? The key features of the book include the following: How to install and setup RHEL 3 How to deploy RHEL 3 in production environment How to manage an RHEL system using Perl and shell scripting Advanced administration tools How to use Red Hat network service Details on installation and setup of security tools Ability to use and deploy High Availability solutions provided with RHEL 3 Performance tuning How to use monitoring tools Ability to use RHEL to provide scalable infrastructure solutions.

The Virtualization Cookbook for IBM z Systems Volume 4: Ubuntu Server 16.04 - Lydia Parziale 2016-09-23

This IBM® Redbooks® publication is Volume 4 of a series of books entitled The Virtualization Cookbook for IBM z Systems. The other volumes in the series are: The Virtualization Cookbook for IBM z Systems Volume 1: IBM z/VM 6.3, SG24-8147 The Virtualization Cookbook for IBM z Systems Volume 2: Red Hat Enterprise Linux 7.1 Servers, SG24-8303 The Virtualization Cookbook for IBM z Systems Volume 3: SUSE Linux Enterprise Server 12, SG24-8890 It is advised that you start with Volume 1 of this series, because the IBM z/VM® Hypervisor is the foundation for installing Linux on IBM zTM Systems.

[The Virtualization Cookbook for IBM z Systems Volume 3: SUSE Linux Enterprise Server 12](#) - Lydia Parziale 2016-05-06

This IBM® Redbooks® publication is Volume 3 of a series of three books called The Virtualization Cookbook for IBM z Systems. The other two volumes are called: The Virtualization Cookbook for IBM z Systems Volume 1: IBM z/VM 6.3, SG24-8147 The Virtualization Cookbook for IBM z Systems Volume 2: Red Hat Enterprise Linux 7.1 Servers, SG24-8303 It is suggested that you start with Volume 1 of this series, because IBM z/VM® is the base "layer" when installing Linux on IBM z SystemsTM. Volume 1 starts with an introduction, describes planning, and then describes z/VM installation into a two-node, single system image (SSI) cluster, configuration, hardening, automation, and servicing. It adopts a cookbook format that provides a concise, repeatable set of procedures for installing and configuring z/VM using the SSI clustering feature. Volumes 2 and 3 describe how to roll your own Linux virtual servers on z Systems hardware under z/VM. The cookbook format continues with installing and customizing Linux. Volume 3 focuses on SUSE Linux Enterprise Server 12. It describes how to install and configure SUSE Linux Enterprise Server 12 onto the Linux administration system, which does the cloning and other tasks. It also explains how to use AutoYaST2, which enables you to automatically install Linux using a configuration file, and explains how to create and use appliances and bootable images from configuration files. In addition, it provides information about common tasks and tools available to service SUSE Linux Enterprise Server.

[The Virtualization Cookbook for IBM Z Volume 1: IBM z/VM 7.2](#) - Lydia Parziale 2021-07-06

This IBM® Redbooks® publication is volume one of five in a series of books entitled The Virtualization Cookbook for IBM Z. The series

includes the following volume: The Virtualization Cookbook for IBM z Systems® Volume 1: IBM z/VM® 6.3, SG24-8147 The Virtualization Cookbook for IBM Z Volume 2: Red Hat Enterprise Linux 8.2 Servers, SG24-8303 The Virtualization Cookbook for IBM z Systems Volume 3: SUSE Linux Enterprise Server 12, SG24-8890 The Virtualization Cookbook for IBM z Systems Volume 4: Ubuntu Server 16.04, SG24-8354 Virtualization Cookbook for IBM Z Volume 5: KVM, SG24-8463 It is recommended that you start with Volume 1 of this series because the IBM z/VM hypervisor is the foundation (or base "layer") for installing Linux on IBM Z®. This book series assumes that you are generally familiar with IBM Z technology and terminology. It does not assume an in-depth understanding of z/VM or Linux. It is written for individuals who want to start quickly with z/VM and Linux, and get virtual servers up and running in a short time (days, not weeks or months). Volume 1 starts with a solution orientation, discusses planning and security, and then, describes z/VM installation methods, configuration, hardening, automation, servicing, networking, optional features, and more. It adopts a "cookbook-style" format that provides a concise, repeatable set of procedures for installing, configuring, administering, and maintaining z/VM. This volume also includes a chapter on monitoring z/VM and the Linux virtual servers that are hosted. Volumes 2, 3, and 4 assume that you completed all of the steps that are described in Volume 1. From that common foundation, these volumes describe how to create your own Linux virtual servers on IBM Z hardware under IBM z/VM. The cookbook format continues with installing and customizing Linux. Volume 5 provides an explanation of the kernel-based virtual machine (KVM) on IBM Z and how it can use the z/Architecture®. It focuses on the planning of the environment and provides installation and configuration definitions that are necessary to build, manage, and monitor a KVM on Z environment. This publication applies to the supported Linux on Z distributions (Red Hat, SUSE, and Ubuntu).

[RHCSA Red Hat Enterprise Linux 8 \(UPDATED\)](#) - Asghar Ghori 2020-11-13

HIGHLIGHTS > Covers ALL Latest Official Exam Objectives for RHCSA 8 including Containers and Shell Scripting > Great for Self-Study and In-Class/Virtual Training > 108 Real-Life Step-By-Step Exercises and Shell Scripts > 80 Do-It-Yourself Challenge Labs > 408 Review Questions & Answers > 4 Realistic Sample RHCSA Exams (23 tasks per exam) RHCSA Red Hat Enterprise Linux 8 (UPDATED): Training and Exam Preparation Guide, Second Edition provides in-depth coverage of the latest RHCSA EX200 exam objectives that include Shell Scripting and Containers. The most definitive guide available on the subject, this book explains concepts, analyzes configuration files, describes command outputs, shows step-by-step procedures (includes screenshots of actual commands executed and outputs they produced), and challenges the readers' comprehension of the concepts and procedures by presenting plenty of additional labs and sample realistic exam tasks to perform on their own. This book has 23 chapters that are organized logically, from setting up the lab to the fundamentals of Linux to sophisticated Linux administration topics. The book covers the topics on local RHEL 8 installation; initial interaction with the system; basic Linux 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 file systems and swap regions; network device and connection configuration; remote file systems and automounting; time synchronization and hostname resolution; the secure shell service; firewall and SELinux controls; and shell scripting and containers. Each

chapter highlights the major topics and relevant exam objectives at the beginning and ends with several review questions & answers and Do-It-Yourself challenge labs. Throughout the book, figures, tables, screen shots, examples, notes, and exam tips are furnished to support explanation and exam preparation. This book includes four sample RHCSA exams that are expected to be performed using the knowledge and skills attained from reading the material, following the exercises, and completing the challenge labs. The labs and the sample exams include hints to relevant topics and/or exercises. This book may be used as a self-learning guide by RHCSA 8 exam aspirants, a resource by instructors and students to follow in physical and virtual training sessions, an on-the-job resource for reference, and an easy-to-understand guide by novice and non-RHEL administrators.

CentOS 6 Linux Server Cookbook - Jonathan Hobson 2013-04-18

This book is written in cookbook style and it offers learning through recipes with examples and illustrations. Each recipe contains step-by-step instructions about everything necessary to execute a particular task. The book is designed so that you can read it from start to end for beginner's or just open up any chapter and start following the recipes as a reference for advanced users, "CentOS 6 Linux Server Cookbook" is for Linux professionals and system administrators using CentOS for their business's server

Red Hat Enterprise Linux Administration Unleashed - Tammy Fox 2007-04-20

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).

Red Hat RHCSA/RHCE 7 Cert Guide - Sander van Vugt 2015-08-07

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 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

Red Hat Enterprise Linux 7 - Richard Petersen 2017

This book examines Red Hat Enterprise Linux 7 for the desktop user and administrator. The focus here is on what users face when using Red Hat Enterprise Linux 7, covering topics like applications, the GNOME and KDE desktops, shell commands, and the administration and network tools.

z/VM and Linux on IBM System z: The Virtualization Cookbook for Red Hat Enterprise Linux 6.0 - Michael MacIsaac 2011-02-18

This IBM® Redbooks® publication describes how to create Linux® virtual servers in IBM z/VM® on IBM System z® hardware. This book adopts a cookbook format that provides a concise, repeatable set of procedures for installing and configuring z/VM in a logical partition (LPAR) and then installing and customizing Linux. You need an IBM System z LPAR with the associated resources, z/VM V6.1 media, and a Linux distribution. This book assumes that you have a general familiarity with System z technology and terminology. It does not assume an in-depth understanding of z/VM and Linux. It is written for those clients who want to get a quick start with z/VM and Linux on the mainframe.

CentOS 7 Server Deployment Cookbook - Timothy Boronczyk 2016-10-06

Deploy and manage today's essential services on an enterprise-class, open operating system About This Book Configure and manage Linux servers in varying scenarios and for a range of business requirements Explore the up-to-date features of CentOS using real-world scenarios See practical and extensive recipes to deploy and manage CentOS Who This Book Is For This book is for Linux professionals with basic Unix/Linux functionality experience, perhaps even having set up a server before, who want to advance their knowledge in administering various services. What You Will Learn See how to deploy CentOS easily and painlessly, even in multi-server environments Configure various methods of remote access to the server so you don't always have to be in the data center Make changes to the default configuration of many services to harden them and increase the security of the system Learn to manage DNS, emails and web servers Protect yourself from threats by monitoring and logging network intrusion and system intrusion attempts, rootkits, and viruses Take advantage of today's powerful hardware by running multiple systems using virtualization In Detail CentOS is derived from Red Hat Enterprise Linux (RHEL) sources and is widely used as a Linux server. This book will help you to better configure and manage Linux servers in varying scenarios and business requirements. Starting with installing CentOS, this book will walk you through the networking aspects of CentOS. You will then learn how to manage users and their permissions, software installs, disks, filesystems, and so on. You'll then see how to secure connection to remotely access a desktop and work with databases. Toward the end, you will find out how to manage DNS, e-mails, web servers, and more. You will also learn to detect threats by monitoring network intrusion. Finally, the book will cover virtualization techniques that will help you make the most of CentOS. Style and approach This easy-to-read cookbook is filled with practical recipes. Hands-on, task-based exercises will present you with real-world solutions to deploy and manage CentOS in varying business scenarios.

JBoss: Developer's Guide - Elvadas Nono Woguia 2017-08-31

Build your own enterprise applications and integration flows with JBoss and its products About This Book Build fast, smart, and flexible applications using JBoss Couple one or more JBoss products to effectively solve various business problems Explore the JBoss product ecosystem for improving the performance of your projects Who This Book Is For If you are a Java developer who wants to have a complete view of the JBoss ecosystem or quickly explore a specific JBoss Product, then this is the book you want. Integrators and consultants, familiar with JBoss, who want integrate several JBoss products within their ongoing project will also find this book useful. What You Will Learn Create new applications or integrate existing systems with JBoss products Setup and manage a JBoss domain Setup and manage a JBoss Fuse cluster with Fabric and Apache Karaf Create and deploy OSGi applications on JBoss Fuse containersv Manage enterprise data with JBoss Datagrid Aggregate various data sources with JBoss Data virtualization to offer data as a service Optimize your business and workflows with both JBoss Business

RulesManagement System and JBoss Business Process Management platforms. In Detail Have you often wondered what is the best JBoss product to solve a specific problem? Do you want to get started with a specific JBoss product and know how to integrate different JBoss products in your IT Systems? Then this is the book for you. Through hands-on examples from the business world, this guide presents details on the major products and how you can build your own Enterprise services around the JBoss ecosystem. Starting with an introduction to the JBoss ecosystem, you will gradually move on to developing and deploying clustered application on JBoss Application Server, and setting up high availability using undertow or HA proxy loadbalancers. As you are moving to a micro service architecture, you will be taught how to package existing Java EE applications as micro service using Swarm or create your new micro services from scratch by coupling most popular Java EE frameworks like JPA, CDI with Undertow handlers. Next, you will install and configure JBoss Data grid in development and production environments, develop cache based applications and aggregate various data source in JBoss data virtualization. You will learn to build, deploy, and monitor integration scenarios using JBoss Fuse and run both producers/consumers applications relying on JBoss AMQ. Finally, you will learn to develop and run business workflows and make better decisions in your applications using Drools and Jboss BPM Suite Platform. Style and Approach The book works through the major JBoss products, with examples and instructions to help you understand each product and how they work together.

Linux Bible - Christopher Negus 2012-09-07

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.

Practical Guide Server Administration Red Hat Enterprise Linux 6.5 - Agus Susanto 2021-04-09

This book talks about a quick guide to become Linux System Administrator using Red Hat Enterprise Linux Server, a Linux distro made by Red Hat, Inc. This book talks Linux discussions from basic to intermediate & completed with two case studies. This book has 7 chapter, there are: Chapter 1: Red Hat Enterprise Linux 6.5 64 Bit Installation Chapter 2: Linux Directory, Commands & Basic System Administration Chapter 3: Software Management Chapter 4: Linux Computer Network Chapter 5: Building Web Server, Repository Server & Database Server Chapter 6: Case Study 1: Proxy Server Monitoring Chapter 7: Case Study 2: System Monitoring

Kubernetes Operators - Jason Dobies 2020-02-21

Operators are a way of packaging, deploying, and managing Kubernetes applications. A Kubernetes application doesn't just run on Kubernetes; it's composed and managed in Kubernetes terms. Operators add application-specific operational knowledge to a Kubernetes cluster, making it easier to automate complex, stateful applications and to augment the platform. Operators can coordinate application upgrades seamlessly, react to failures automatically, and streamline repetitive maintenance like backups. Think of Operators as site reliability engineers in software. They work by extending the Kubernetes control plane and API, helping systems integrators, cluster administrators, and application developers reliably deploy and manage key services and components. Using real-world examples, authors Jason Dobies and Joshua Wood demonstrate how to use Operators today and how to create Operators for your applications with the Operator Framework and SDK. Learn how to establish a Kubernetes cluster and deploy an Operator Examine a range of Operators from usage to implementation Explore the three pillars of the Operator Framework: the Operator SDK, the Operator Lifecycle Manager, and Operator Metering Build Operators from the ground up using the Operator SDK Build, package, and run an Operator in development, testing, and production phases Learn how to distribute your Operator for installation on Kubernetes clusters

Linux: Powerful Server Administration - Uday R. Sawant 2017-04-27

Get hands-on recipes to make the most of Ubuntu Server, CentOS 7 Linux Server and RHEL 7 Server About This Book Get Linux servers up and running in seconds, In-depth guide to explore new features and solutions in server administration Maintain performance and security of your server solution by deploying expert configuration advice Who This Book Is For This Learning Path is intended for system administrators with a basic understanding of Linux operating systems and written with the novice-to-intermediate Linux user in mind. To get the most of this Learning Path, you should have a working knowledge of basic system administration and management tools. What You Will Learn Set up high performance, scalable, and fault-tolerant back ends with web and database servers Facilitate team communication with a real-time chat service and collaboration tools Monitor, manage and develop your server's file system to maintain a stable performance Gain best practice methods on sharing files and resources through a network Install and configure common standard services such as web, mail, FTP, database and domain name server technologies Create kickstart scripts to automatically deploy RHEL 7 systems Use Orchestration and configuration management tools to manage your environment In Detail Linux servers are frequently selected over other server operating systems for their stability, security and flexibility advantages. This Learning Path will teach you how to get up and running with three of the most popular Linux server distros: Ubuntu Server, CentOS 7 Server, and RHEL 7 Server. We will begin with the Ubuntu Server and show you how to make the most of Ubuntu's advanced functionalities. Moving on, we will provide you with all the knowledge that will give you access to the inner workings of the latest CentOS version 7. Finally, touching RHEL 7, we will provide you with solutions to common RHEL 7 Server challenges. This Learning Path combines some of the best that Packt has to offer in one complete, curated package. It includes content from the following Packt products: 1) Ubuntu Server Cookbook 2) CentOS 7 Linux Server Cookbook, Second Edition 3) Red Hat Enterprise Linux Server Cookbook Style and approach This easy-to-follow practical guide contains hands on examples and solutions to real word administration problems and problems faced when building your RHEL 7 system from scratch using orchestration tools.

RHCSA Red Hat Enterprise Linux 8: - Asghar Ghori 2020-01-10

> 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.

Red Hat RHCSA 8 Cert Guide - Sander van Vugt 2019-11-04

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

CentOS 7 Linux Server Cookbook - Oliver Pelz 2016-01-29

Over 80 recipes to get up and running with CentOS 7 Linux server About This Book A practical guide to install, configure, administer and maintain CentOS 7 servers An in-depth guide to the CentOS 7 operating system, exploring its various new features and changes in server administration Presents tricks and solutions to tackle common server issues with the help of practical examples and real-life scenarios Who This Book Is For This book is targeted at beginner and more experienced system administrators alike who want to use CentOS as their server solution. Readers do not need much pre-knowledge or experience at all to work with this book. What You Will Learn Install and configure CentOS 7 Linux server system from scratch using normal and advanced methods Maintain a performance-based and secure server solution by deploying expert configuration advice and managing software packages Monitor, manage and develop your server's file system to maintain a stable performance Gain best practice methods on sharing files and resources through a network Install and configure common standard services such as web, mail, FTP, database and domain name server technologies Introduce you to the world of operating-system-level virtualization using the Docker platform. Understand the fundamentals of the Security-Enhanced Linux access control architecture Monitor your IT infrastructure using Nagios In Detail This book will provide you with a comprehensive series of starting points that will give you direct access to the inner workings of the latest CentOS version 7 and help you trim the learning curve to master your server. You will begin with the installation and basic configuration of CentOS 7, followed by learning how to manage your system, services and software packages. You will then gain an understanding of how to administer the file system, secure access to your server and configure various resource sharing services such as file, printer and DHCP servers across your network. Further on, we cover advanced topics such as FTP services, building your own DNS server, running database servers, and providing mail and web services. Finally, you will get a deep understanding of SELinux and you will learn how to work with Docker operating-system virtualization and how to monitor your IT infrastructure with Nagios. By the end of this book, you will have a fair understanding of all the aspects of configuring, implementing and administering CentOS 7 Linux server and how to put it in control. Style and approach This book is a practical reference guide with hands-on examples and solutions to real-world administration problems. It covers in-depth and comprehensive information on CentOS 7 and its new features.

Learning Red Hat Linux - Bill McCarty 1999

A guide for intermediate to advanced users highlights the latest Linux kernel and updated libraries while offering expert advice on installation, configuration, programming, administration, and networking

CentOS 8 Essentials - Neil Smyth 2019-12-11

Arguably one of the most highly regarded and widely used enterprise level operating systems available today is the CentOS 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. CentOS 8 Essentials is designed to provide detailed information on the installation, use and administration of the CentOS 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.

The Linux Command Line, 2nd Edition - William Shotts 2019-03-07

You've experienced the shiny, point-and-click surface of your Linux computer—now dive below and explore its depths with the power of the command line. The Linux Command Line takes you from your very first terminal keystrokes to writing full programs in Bash, the most popular Linux shell (or command line). Along the way you'll learn the timeless skills handed down by generations of experienced, mouse-shunning gurus: file navigation, environment configuration, command chaining, pattern matching with regular expressions, and more. In addition to that practical knowledge, author William Shotts reveals the philosophy behind these tools and the rich heritage that your desktop Linux machine has inherited from Unix supercomputers of yore. As you make your way through the book's short, easily-digestible chapters, you'll learn how to: Create and delete files, directories, and symlinks Administer your system, including networking, package installation, and process management Use standard input and output, redirection, and pipelines Edit files with Vi, the world's most popular text editor Write shell scripts to automate common or boring tasks Slice and dice text files with cut, paste, grep, patch, and sed Once you overcome your initial "shell shock," you'll find that the command line is a natural and expressive way to communicate with your computer. Just don't be surprised if your mouse starts to gather dust.

Linux Administration Cookbook - Adam K. Dean 2018-12-31

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 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 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.

Fedora 10 and Red Hat Enterprise Linux Bible - Christopher Negus 2009-04-29

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 file.

The Virtualization Cookbook for IBM Z Volume 2: Red Hat Enterprise Linux 8.2 - Lydia Parziale 2021-10-15

This IBM® Redbooks® publication is Volume 2 of a five-volume series of books entitled The Virtualization Cookbook for IBM Z®. This volume includes the following chapters: Chapter 1, "Installing Red Hat Enterprise Linux on LNXADMIN" on page 3, describes how to install and configure Red Hat Enterprise Linux onto the Linux Administration server, which performs the cloning and other tasks. Chapter 2, "Automated Red Hat Enterprise Linux installations by using Kickstart" on page 37, describes how to use Red Hat's kickstart tool to create Linux systems. This tool is fundamentally different from cloning in that an automated installation is implemented. You can try kickstart and cloning. Understand that these applications attempt to accomplish the same goal of quickly getting Linux systems up and running, and that you do not need to use both. Chapter 3, "Working with subscription-manager, yum, and DaNdiFied" on page 47, describes how the Red Hat Network works. It provides centralized management and provisioning for multiple Red Hat Enterprise Linux systems. Kickstart is an easy and fast way to provision your Linux guests in any supported Linux platform. It re-creates the operating system from the beginning by using the kickstart profile configuration file that installs the new operating system unattended. It also sets up the new guest according to the definition that was set up in the kickstart file. Usually, Linux is administered by the same team that manages Linux on all platforms. By using kickstart, you can create a basic profile that can be used in all supported platforms and customize Linux profiles, as needed. Cloning requires a better understanding of the z/VM environment and z/VM skills. It is a fast process if you enable the IBM FlashCopy® feature in advance. It clones the disks from a golden image to new disks that are used by the new Linux guest. The process can be automated by using the cloning scripts that are supplied with this book. It is recommended that you start with The Virtualization Cookbook for IBM Z Volume 1: IBM z/VM 7.2, SG24-8147 of this series because the IBM® z/VM hypervisor is the foundation (or base "layer") for installing Linux on IBM Z.

A Practical Guide to Fedora and Red Hat Enterprise Linux - Mark G. Sobell 2012

In this book, one of the world's leading Linux experts brings together all the knowledge you need to master Fedora or Red Hat Enterprises Linux and succeed with it in the real world.

OpenShift for Developers - Grant Shipley 2016-08-04

Keen to build web applications for the cloud? Get a quick hands-on introduction to OpenShift, the open source Platform as a Service (PaaS) offering from Red Hat. With this practical guide, you'll learn the steps necessary to build, deploy, and host a complete real-world application on OpenShift without having to slog through long, detailed explanations of the technologies involved. OpenShift enables you to use Docker application containers and the Kubernetes cluster manager to automate the way you create, ship, and run applications. Through the course of the book, you'll learn how to use OpenShift and the Wildfly application server to build and then immediately deploy a Java application online. Learn about OpenShift's core technology, including Docker-based containers and Kubernetes Use a virtual machine with OpenShift installed and configured on your local environment Create and deploy your first application on the OpenShift platform Add language runtime dependencies and connect to a database Trigger an automatic rebuild and redeployment when you push changes to the repository Get a working environment up in minutes with application templates Use commands to check and debug your application Create and build Docker-based images for your application

Getting Started with Satellite 6 - Adrian Bradshaw

This small book shows you how to get up and running with Red Hats Satellite 6 software.

Red Hat Enterprise Linux Server Cookbook - William Leemans 2015-12-23

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 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.

Red Hat Enterprise Linux 6 Administration - Sander van Vugt 2013-01-23

The definitive guide to administering a Red Hat EnterpriseLinux 6 network Linux professionals who need a go-to guide on version 6 of RedHat Enterprise Linux (RHEL) will find what they need in thiscomprehensive Sybex book. It covers RHEL administration in detail,including how to set up and manage web and mail services, use RHELin enterprise environments, secure it, optimize storage, configurefor virtualization and high availability, and much more. It also provides a great study aid for those preparing for either the RHCSAor RHCE certification exam. Red Hat is the Linux market leader, and Red Hat administratorsare in demand This Sybex guide is a comprehensive resource on Red HatEnterprise Linux administration and useful for those preparing forone of the Red Hat certification exams Covers setting up and managing web and mail services, usingRHEL in enterprise environments, securing RHEL, and optimizingstorage to fit your environment Explores advanced RHEL configurations, including virtualizationand high availability Red Hat Enterprise Linux 6 Administration is the guideLinux professionals and Red Hat administrators need to stay currenton the newest version.

Linux Troubleshooting Bible - Christopher Negus 2004-12-03

* 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

Red Hat Fedora and Enterprise Linux 4 Bible - Christopher Negus 2005-08-01

For desktop or business, here's all the 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 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 KNOPPIX to test and prepare your computer Get your Windows stuff working in Linux www.wiley.com/go/fedora4bible

Linux Server Cookbook - Alberto Gonzalez 2023-02-10

Learn How to Implement Key System Administration Tasks in Linux KEY FEATURES ● Configure and use Linux network commands to analyze, maintain, and troubleshoot the network. ● Get familiar with the most commonly used advanced commands required for administrating the Linux Server. ● Explore new and trending services in the system administration domain. DESCRIPTION Linux is the most popular operating system in the IT industry due to its security and performance. In this book, you will get familiar with the most important and advanced concepts of Linux server administration. The book begins by showing you how to install a Linux distribution and the different possibilities available depending on the end usage of it. After installation, the book shows how to manage your system, administrate users, and permissions, and how to install new software and configure the services. The book provides a review of the most common and useful CLI commands and will provide knowledge on how to manage files, directories, and processes. It explains how to install and administer advanced services like databases and file sharing. The book will then guide you through new technologies related to automation, containers, and continuous integration/delivery pipelines. Lastly, it will help you explore concepts such as Infrastructure as Code and Infrastructure as a Service and the usage of Linux on Public and Private clouds in detail with multiple examples. By the end of the book, you will be able to use different open-source tools available on Linux to perform tasks. WHAT YOU WILL LEARN ● Learn how to install a Linux distribution. ● Explore advanced Network Configuration in Linux. ● Configure firewall and network security in the Linux server. ● Learn how to automate your system administration tasks. ● Automate Linux Server Deployments with Terraform. WHO THIS BOOK IS FOR This book is best suited for System administrators, Linux administrators, IT managers, Network engineers, Network administrators, and Security professionals. TABLE OF CONTENTS 1. Introduction to Linux 2. Linux Installation 3. Using the Command Line Interface 4. User Administration and Software Management 5. Managing Files, Directories, and Processes 6. Monitoring System Resources 7. Network Configuration 8. Security 9. Network Services 10. File Sharing 11. Databases 12. Automation 13. Containers and CI/CD 14. Backup and Restore 15. Multi Cloud Management 16. Infrastructure as a Service

Red Hat Enterprise Linux 8 Administration - Miguel Perez Colino 2021-11-11

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 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 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 Linux Networking and System Administration - Terry Collings 2004-02-20

* 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/>).

Foundations of CentOS Linux - Chivas Sicam 2010-01-08

You need to maintain clients, servers and networks, while acquiring new skills. Foundations of Cent OS Linux: Enterprise Linux On the Cheap covers a free, unencumbered Linux operating system within the Red Hat lineage, but it does not assume you have a Red Hat Enterprise Linux license. Now you can learn CentOS Linux, the most powerful and popular of all Red Hat clones, keep maintaining your network at work, and become an Red Hat Certified Engineer, all just for the cost of this book. Introduces CentOS Linux and Fedora clients as equals to Red Hat Enterprise Linux Sets up CentOS as a secure, high-performance web services back end Prepares you for the RHCE examination, but does not assume an RHEL installation

Mastering Red Hat Linux 9 - Michael Jang 2006-09-30

Your Complete Guide to the World's Leading Linux Distribution Whether you depend on Linux as a server or desktop OS, Mastering Red Hat Linux 9 gives you the practical information you need to install, configure, and administer the latest version of Red Hat's operating system to suit your specific computing needs. Clear, step-by-step instruction teaches you basic, intermediate, and advanced techniques, and the Publisher's Edition of Red Hat Linux 9—included on two CDs—lets you get started right away. Coverage includes: Installing Linux from multiple sources Automating Linux installation over a network Navigating the command line interface Administering users and groups Managing RPM packages Troubleshooting the boot process Recompiling a kernel Configuring the X Window Working with GNOME and KDE Using Red Hat GUI administrative tools Understanding basic TCP/IP networking Securing Linux firewalls Setting up secure remote access Installing and testing DNS, DHCP, CUPS, and sendmail Configuring and troubleshooting FTP, NFS, Samba, and Apache Online Bonus Chapters: Linux Certification requirements (not yet available) Note: CD-ROM/DVD and other supplementary materials are not included as part of eBook file.

Linux Security Cookbook - Daniel J. Barrett 2003-06-02

Computer security is an ongoing process, a relentless contest between system administrators and intruders. A good administrator needs to stay one step ahead of any adversaries, which often involves a continuing process of education. If you're grounded in the basics of security, however, you won't necessarily want a complete treatise on the subject each time you pick up a book. Sometimes you want to get straight to the

point. That's exactly what the new Linux Security Cookbook does. Rather than provide a total security solution for Linux computers, the authors present a series of easy-to-follow recipes--short, focused pieces of code that administrators can use to improve security and perform common tasks securely. The Linux Security Cookbook includes real solutions to a wide range of targeted problems, such as sending encrypted email within Emacs, restricting access to network services at particular times of day, firewalling a webserver, preventing IP spoofing, setting up key-based SSH authentication, and much more. With over 150 ready-to-use scripts and configuration files, this unique book helps administrators secure their systems without having to look up specific syntax. The book begins with recipes devised to establish a secure system, then moves on to secure day-to-day practices, and concludes with techniques to help your system stay secure. Some of the "recipes" you'll find in this book are: Controlling access to your system from firewalls down to individual services, using iptables, ipchains, xinetd, inetd, and more Monitoring your network with tcpdump, dsniff, netstat, and other tools Protecting network connections with Secure Shell (SSH) and stunnel Safeguarding email sessions with Secure Sockets Layer (SSL) Encrypting files and email messages with GnuPG Probing your own security with password crackers, nmap, and handy scripts This cookbook's proven techniques are derived from hard-won experience. Whether you're responsible for security on a home Linux system or for a large corporation, or somewhere in between, you'll find valuable, to-the-point, practical recipes for dealing with everyday security issues. This book is a system saver.

Red Hat Enterprise Linux 8 Essentials - Neil Smyth 2019-06-13

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.

Red Hat Enterprise Linux Troubleshooting Guide - Benjamin Cane 2015-10-19

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.