Red Hat System Administration Study Guide

This book examines Red Hat Enterprise Linux 8 for the desktop user and administrator (including RHEL 8.1). Though administrative tools are covered, the emphasis is on what a user would need to know to perform tasks. The focus here is on what users face when using Red Hat Enterprise Linux 8, covering topics like applications, the GNOME desktop, shell commands, and the administration and network tools. The GNOME desktop is examined in detail, including configuration options. Administration topics are also covered including user management, software management, repositories, services, systemd, system monitoring, shell configuration, encryption, network connections, shared resources, authentication, SELinux, firewalls, shell configuration, backups, and printers. The book is organized into two parts: desktops and administration.

"Red Hat Certified System Administrator (RHCSA) Complete Video Course is an engaging self-paced video training solution that provides learners with over 16 hours of personal, visual instruction from an expert trainer with over 20 years of practical Linux teaching experience. Through the use of topic-focused instructional videos you will gain an in-depth understanding of the Red Hat Certified Administrator (RHCSA) exam as well as a deeper understanding of Red Hat Enterprise Linux so you master the key foundational principles of systems administration. Included with the product are dynamic and interactive hands-on exercises and quizzes so you can test your knowledge while you study. The course includes 100% coverage of exam objectives, hands-on exercises included with each lesson so you can practice what you learned in a real CLI environment."--Resource description page.

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 alsoprovides 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.

The Best Fully Integrated Study System Available With hundreds of practice questions and hands-on exercises, RHCE Red Hat Certified Engineer Linux Study Guide, Fifth Edition covers what you need to know--and shows you how to prepare--for this challenging exam. 100% complete coverage of all objectives for exam RH302 Exam Readiness Checklist at the front of the book--you're ready for the exam when all objectives on the list are checked off Inside the Exam sections in every chapter highlight key exam topics covered Real-world exercises modeled after hands-on exam scenarios Two complete lab-based exams simulate the format, tone, topics, and difficulty of the real exam Bonus content (available for download) includes installation screen review, basic instructions for using VMware and Xen as testbeds, and paper and pencil versions of the lab exams Covers all RH302 exam topics, including: Hardware installation and configuration The boot process Linux filesystem administration Package management and Kickstart User and group administration System administration tools Kernel services and configuration Apache and Squid Network file sharing services (NFS, FTP, and Samba) Domain Name System (DNS) E-mail (servers and clients) Extended Internet Services Daemon (xinetd), the Secure package, and DHCP The X Window System Firewalls, SELinux, and troubleshooting Publisher's Note: Products purchased from Third Party sellers are not guaranteed by the publisher for quality, authenticity, or access to any online entitlements included with the product. Take the latest editions of the challenging RHCSA and RHCE certification exams with confidence This comprehensive self-study guide clearly explains what you need to know—and gets you fully prepared—for the RHCSA and RHCE certification exams. Written by a pair of Linux certification experts and experienced authors, this new edition has been thoroughly revised for Red Hat Enterprise Linux 8 and provides complete coverage of all exam objectives. RHCSA/RHCE Red Hat Enterprise Linux 8 Certification Study Guide, Eighth Edition (Exams EX200 & EX294) is an integrated study system based on proven pedagogy. Each chapter includes step-by-step exercises, special "Exam Watch" and "On the Job" sidebars, "Two-Minute Drills," self-tests, and hands-on lab questions. The companion website contains searchable glossaries, downloadable virtual machine files, four complete lab-based practice exams (two for each exam), and 100+ lab-based exercises with answers and explanations. Features 100+ lab-based exercises with answers and in-depth explanations Online content includes four complete lab-based practice exams—two for RHSCA and two for RHCE Written by a pair of Linux certification experts

> 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.

- This is the latest practice test to pass the RedHat EX200 Red Hat Certified System Administrator (RHCSA) Exam. - It contains 111 Questions and Answers. - All the questions are 100% valid and stable. - You can reply on this practice test to pass the exam with a good mark and in the first attempt.

Over 21 Hours of Video Instruction Overview Over 21 hours of training so you can pass both the Red Hat Certified System

Administrator (RHCSA) and Red Hat Certified Engineer (RHCE) exams. Includes practice exam exercises so you can put your knowledge to the test. Description Red Hat Certified System Administrator (RHCSA) and Red Hat Certified Engineer (RHCE) Complete Video Course Library provides the opportunity to study for both the Red Hat Certified System Administrator (RHCSA) and the Red Hat Certified Engineer (RHCE) exams. This Complete Video Course Library offers more than 21 hours of personal visual instruction from an RHCSA and RHCE certified expert with more than 20 years of practical Linux teaching experience. Through the use of topic-focused instructional videos you will gain an in-depth understanding of the Red Hat Certified Administrator (RHCSA) and Red Hat Certified Engineer (RHCE) exams as well as a deeper understanding of Red Hat Enterprise Linux so you master key foundational principles. Included with the product are practice question exercises, with the instructor walking students through both the scenarios and solutions to give you the extra edge you need to excel on the exam. The course includes 100% coverage of the RHCSA and RHCE exam objectives 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 specializes in Linux High Availability solutions and Performance Optimization. More information about Sander is on his website at www.sandervanvugt.com. Skill Level Beginning to Intermediate What You Will Learn Key concepts for all the objectives on the Red Hat Certified Administrator (RHCSA) exam Key concepts for all the objectives on the Red Hat Certified Engineer (RHCE) exam Information on the new RHEL 7 exam Who Should Take This Course Primary Audience: Red Hat Certified Administrator (RHCSA) and Red Hat Certified Engineer (RHCE) certification candidates Anyone wanting to get RHCSA certified Anyone wanting to get RHCE certified Anyone interested in learning about Red Hat from the ground up Linux engineers who are interested in learning more about Red Hat Enterprise Linux Junior system administrators who want to deepen their skills Administr...

Based on Red Hat Enterprise Linux 7, the new edition of this bestselling study guide covers the updated Red Hat Certified System Administrator (RHCSA) and Red Hat Certified Engineer (RHCE) exams. RHCSA/RHCE Red Hat Linux Certification Study Guide, 7th Edition is fully revised to cover the recently released Red Hat Enterprise Linux 7 and the corresponding RHCSA and RHCE certification exams. This new edition provides complete coverage of all official exam objectives for the new exams. An integrated study system based on proven pedagogy, this revised bestseller features special elements that reinforce and teach practical skills while preparing candidates for the exam. Each chapter includes step-by-step exercises, Exam Watch and On-the-Job sidebars, Two-Minute Drills, end-of-chapter self tests, and hands-on lab questions. Electronic content includes four complete lab-based practice exams to ensure you're ready to sit for the live exams. Complete coverage of all exam objectives and performance-based requirements related to the exams, including difficult lab-based scenarios Electronic content includes four complete lab-based practice exams, two for RHSCA and two for RHCE A proven study system for RHCSA and RHCE candidates This book includes copies of the Linux Kernel provided under the terms of the GNU General Public License version 2

Kali Linux: a complete pentesting toolkit facilitating smooth backtracking for working hackers About This Book Conduct network testing, surveillance, pen testing and forensics on MS Windows using Kali Linux Footprint, monitor, and audit your network and investigate any ongoing infestations Customize Kali Linux with this professional guide so it becomes your pen testing toolkit Who This Book Is For If you are a working ethical hacker who is looking to expand the offensive skillset with a thorough understanding of Kali Linux, then this is the book for you. Prior knowledge about Linux operating systems and the BASH terminal emulator along with Windows desktop and command line would be highly beneficial. What You Will Learn Set up Kali Linux for pen testing Map and enumerate your Windows network Exploit several common Windows network vulnerabilities Attack and defeat password schemes on Windows Debug and reverse-engineer Windows programs Recover lost files, investigate successful hacks and discover hidden data in innocent-looking files Catch and hold admin rights on the network, and maintain backdoors on the network after your initial testing is done In Detail Microsoft Windows is one of the two most common OS and managing its security has spawned the discipline of IT security. Kali Linux is the premier platform for testing and maintaining Windows security. Kali is built on the Debian distribution of Linux and shares the legendary stability of that OS. This lets you focus on using the network penetration, password cracking, forensics tools and not the OS. This book has the most advanced tools and techniques to reproduce the methods used by sophisticated hackers to make you an expert in Kali Linux penetration testing. First, you are introduced to Kali's top ten tools and other useful reporting tools. Then, you will find your way around your target network and determine known vulnerabilities to be able to exploit a system remotely. Next, you will prove that the vulnerabilities you have found are real and exploitable. You will learn to use tools in seven categories of exploitation tools. Further, you perform web access exploits using tools like websploit and more. Security is only as strong as the weakest link in the chain. Passwords are often that weak link. Thus, you learn about password attacks that can be used in concert with other approaches to break into and own a network. Moreover, you come to terms with network sniffing, which helps you understand which users are using services you can exploit, and IP spoofing, which can be used to poison a system's DNS cache. Once you gain access to a machine or network, maintaining access is important. Thus, you not only learn penetrating in the machine you also learn Windows privilege's escalations. With easy to follow step-by-step instructions and support images, you will be able to quickly pen test your system and network. Style and approach This book is a hands-on guide for Kali Linux pen testing. This book will provide all the practical knowledge needed to test your network's security using a proven hacker's methodology. The book uses easy-to-understand yet professional language for explaining concepts.

"Microbiology covers the scope and sequence requirements for a single-semester microbiology course for non-majors. The book presents the core concepts of microbiology with a focus on applications for careers in allied health. The pedagogical features of the text make the material interesting and accessible while maintaining the career-application focus and scientific rigor inherent in the subject matter. Microbiology's art program enhances students' understanding of concepts through clear and effective illustrations, diagrams, and photographs. Microbiology is produced through a collaborative publishing agreement between OpenStax and the American Society for Microbiology Press. The book aligns with the curriculum guidelines of the American Society for Microbiology."--BC Campus website.

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 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.

Study the material in this book to prepare for the RHCE exam EX294 and to learn how using Ansible within your own environment improves system administration productivity. This book covers all of the objectives of the exam and extends further, ensuring that you know how to use Ansible to manage Linux. The book uses CentOS, a Red Hat-based distribution, and Ubuntu instead of using a single Red Hat distribution. By using the two distributions, you will understand the power of Ansible and how easily you can deal with multiple platforms, which is crucial for your understanding of Ansible in the real world. The book assumes no previous knowledge of Ansible but some knowledge of Linux system administration from the command line. You will learn how to manage Linux systems that are installed with different distributions, including CentOS Enterprise Linux 8 and Ubuntu 18.04. You will be able to manage these systems using ad hoc commands from the command line as well as creating Ansible playbooks that can be replayed reliably many times. To save on the code that you have to create, you will learn how to use Ansible Galaxy to search for and download roles and collections that are pre-written to manage elements of your Linux installations. By the end of this book, you will be able to write efficient and effective YAML playbooks to manage your entire estate. What You Will Learn Prepare systems so that password-less access can be used with Ansible remotely Use ad hoc commands to quickly configure systems Use and format YAML files correctly Create playbooks that grow in their complexity as your experience develops Ensure that services are restarted on configuration changes Who This Book Is For Those who want to prepare for the RHCE exam EX294 and readers who want to learn how to use Ansible to improve the productivity of their system administration. This book will help you prepare yourself for the exam as well as your real-life administration needs.

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

The New York Times best-selling book exploring the counterproductive reactions white people have when their assumptions about race are challenged, and how these reactions maintain racial inequality. In this "vital, necessary, and beautiful book" (Michael Eric Dyson), antiracist educator Robin DiAngelo deftly illuminates the phenomenon of white fragility and "allows us to understand racism as a practice not restricted to 'bad people' (Claudia Rankine). Referring to the defensive moves that white people make when challenged racially, white fragility is characterized by emotions such as anger, fear, and guilt, and by behaviors including argumentation and silence. These behaviors, in turn, function to reinstate white racial equilibrium and prevent any meaningful cross-racial dialogue. In this in-depth exploration, DiAngelo examines how white fragility develops, how it protects racial inequality, and what we can do to engage more constructively.

Video training detailing common exam traps, pitfalls, and difficulties. The author also walks you through a complete practice exam in real time, so you can experience what it's like to take the test before you ever walk into the testing facility. Description Red Hat Certified System Administrator (RHCSA) Exam Prep Workshop contains hours of deep-dive training on common RHCSA exam traps, pitfalls, and difficulties. Sander van Vugt, an experienced Red Hat instructor, trainer, and author will detail the most common mistakes people make when taking the exam, so you can avoid them in the testing facility. You will then walk through a live practice exam with the author in real time, so you can experience first-hand what it's like to take the test. The videos consist of live trainer discussions, CLI presentations and demos, and a real-time practice exam walk-through. You will also learn about the structure of the exam, what to do when you're stuck, how to approach questions and track time, and more. You can find comprehensive coverage of the RHCSA exam in the Red Hat Certified System Administrator (RHCSA) Complete Video Course and the Red Hat RHCSA/RHCE 7 Cert Guide , both available for Pearson IT Certification. Skill Level Beginning to intermediate What You Will Learn Key concepts to avoid traps and pitfalls on the Red Hat Certified Systems Administrator (RHCSA) exam Helpful tips for taking the exam Who Should Take This Course Primary audience: Red Hat Certified Systems Administrator (RHCSA) certification candidates Secondary audience: Anyone interested in learning about Red Hat from the ground up Linux engineers who are interested in learning more about Red Hat Enterprise Linux Junior system administrators who want to deepen their skills Administrators currently administering UNIX systems and developers who write software for Linux Course

Requirements The ideal target student has some preliminary Linux knowledge already, because this course focuses on Linux administration rather than on basic Linux usage. Table of Contents Module 1: Getting Ready to Take the RHCSA Exam In this module, you'll learn what to expect for the RHCSA exam and how to prepare for it in the best possible way. You'll learn about test-taking techniques, how to manage your time, what to do when you're stuck, and more. Module 2: RHCSA Traps, Pitfalls, and Difficulties In this module, some of the most difficult topics from the RHCSA exam objectives are discussed. You'll learn ab...

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Reveals and illustrates the awesome power and flexibility of the command line, and the design and usage philosophies that support those traits. This understanding of how to extract the most from the Linux command line can help you become a better SysAdmin. Understand why many things in the Linux and Unix worlds are done as they are, and how to apply the Linux Philosophy to working as a SysAdmin. The original Unix/Linux Philosophy presented foundational and functional tenets - rules, guidelines, and procedural methods - that worked well. However, it was intended for the developers of those operating systems. Although System Administrators could apply many of the tenets to their daily work, many important tenets were missing. Over the years that David Both has been working with Linux and Unix, he has formulated his own philosophy – one which applies more directly to the everyday life of the System Administrator. This book defines a philosophy, and then illuminates the practical aspects of that philosophy with real-world experiments you can perform. Inspired by David's real mentors, and dedicated to them, The Linux Philosophy for System Administrators is a mentor to SysAdmins everywhere; remember - "If you fail you learn." What You Will Learn Apply the Linux philosophy to working as a SysAdmin Unlock the power of the knowledge you already have Fully understand and access the vast power of the command line Review the power of Linux as a function of the philosophies that built it Who This Book Is For If you want to learn the secrets that make the best Linux SysAdmins powerful far beyond that of mere mortals; if you want to understand the concepts that unlock those secrets; if you want to be the SysAdmin that everyone else turns to when the bytes hit the fan – then this book is for you.

Understand the concepts, processes and technologies that will aid in your professional development as a new system administrator. While every information technology culture is specific to its parent organization, there are commonalities that apply to all organizations. The Accidental SysAdmin Handbook, Second Edition looks at those commonalities and provides a general introduction to critical aspects associated with system administration. It further acts to provide definitions and patterns for common computer terms and acronyms. What You Will Learn Build and manage home networking and plan more complex network environments Manage the network layer and service architectures as well as network support plans Develop a server hardware strategy and understand the physical vs. virtual server ecosystem Handle data storage, data strategies and directory services, and central account management Work with DNS, DHCP, IP v4 and IP v6 Deploy workstations and printers Manage and use antivirus and security management software Build, manage and work with intranets and Internet support services Who This Book Is For It is assumed that the reader has little to no experience in a professional information technology environment.

* 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/).

RHCSA is an entry-level certification that focuses on actual competencies at system administration, including installation and configuration of a Red Hat Linux system and attaching it to a live network running network services. To achieve the RHCSA certification the student must pass EX200, a half-day hands-on lab exam. There is no prerequisite for the exam, but Red Hat recommends preparing for the exam by taking courses in Red Hat System Administration (RH124 or RH135) if one does not have previous experience. RHCSA was launched in 2002 as Red Hat Certified Technician (RHCT). As of July 2009 there were 30,000 RHCTs. In November 2010 it was renamed to RHCSA. This self-study exam preparation guide for the RHCSA certification exam contains everything you need to test yourself and pass the Exam. All Exam topics are covered and insider secrets, complete explanations of all RHCSA subjects, test tricks and tips, numerous highly realistic sample questions, and exercises designed to strengthen understanding of RHCSA concepts and prepare you for exam success on the first attempt are provided. Put your knowledge and experience to the test. Achieve RHCSA certification and accelerate your career. Can you imagine valuing a book so much that you send the author a "Thank

You" letter? Tens of thousands of people understand why this is a worldwide best-seller. Is it the authors years of experience? The endless hours of ongoing research? The interviews with those who failed the exam, to identify gaps in their knowledge? Or is it the razor-sharp focus on making sure you don't waste a single minute of your time studying any more than you absolutely have to? Actually, it's all of the above. This book includes new exercises and sample questions never before in print. Offering numerous sample questions, critical time-saving tips plus information available nowhere else, this book will help you pass the RHCSA exam on your FIRST try. Up to speed with the theory? Buy this. Read it. And Pass the RHCSA Exam.

Don't Let the Real Test Be Your First Test! RHCSA/RHCE Red Hat Linux Certification Practice Exams with Virtual Machines (Exams EX200 & EX300) features 100+ hands-on labs, four complete practice exams, and three virtual machines. To help you understand the material, the labs and practice exams are accompanied by in-depth answer explanations. This practical guide covers all official objectives for Exams EX200 and EX300 and is the perfect companion to RHCSA/RHCE Red Hat Linux Certification Study Guide, Sixth Edition. Covers all exam topics, including: Virtual Machines and Automated Installations • Fundamental Command Line Skills • RHCSA-Level Security Options • The Boot Process • Linux Filesystem Administration • Package Management • User Administration • RHCSA-Level System Administration Tasks • Security • System Services and SELinux • RHCE Administrative Tasks • Electronic Mail Servers • The Apache Web Server • The Samba File Server • More File-Sharing Services • Administrative Services: DNS, FTP, and Logging Includes three virtual machines preloaded with: Two RHCSA practice exams Two RHCE practice exams 100+ hands-on labs In order to take advantage of the virtual machines that accompany this book you will need a 64-bit system with hardware virtualization enabled as well as RHEL 6 or its equivalent.

Learn Linux Administration and Supercharge Your Career!If you're looking to make the jump from being a Linux user to being a Linux administrator, this book is for you! If you're in windows administration and want to learn the ins and outs of Linux administration, start here. This book is also great for Unix administrators switching to Linux administration.Here is what you will learn by reading this Linux System Administration book: How the the boot process works on Linux servers and what you can do to control it. The various types of messages generated by a Linux system, where they're stored, and how to automatically prevent them from filling up your disks. Disk management, partitioning, and file system creation. Managing Linux users and groups. Exactly how permissions work and how to decipher the most cryptic Linux permissions with ease. Networking concepts that apply to system administration and specifically how to configure Linux network interfaces. How to use the nano, vi, and emacs editors. How to schedule and automate jobs using cron. How to switch users and run processes as others. How to configure sudo. How to find and install software. Managing process and jobs. How to make the most out of the Linux command line Several Linux commands you'll need to know Linux shell scripting What you learn in book applies to any Linux system including Ubuntu Linux, Debian, Linux Mint, RedHat Linux, CentOS, Fedora, SUSE Linux, Arch Linux, Kali Linux and more.Real Advice from a Real, Professional Linux AdministratorJason Cannon is the author of Linux for Beginners, the founder of the Linux Training Academy, and an instructor to over 40,000 satisfied students. He started his IT career in the late 1990's as a Unix and Linux System Engineer and he'll be sharing his real-world Linux experience with you throughout this book.By the end of this book you will fully understand the most important and fundamental concepts of Linux server administration. More importantly, you will be able to put those concepts to use in practical real-world situations. You'll be able to configure, maintain, and support a variety of Linux systems. You can even use the skills you learned to become a Linux System Engineer or Linux System Administrator.

16+ Hours of Video Instruction Red Hat Certified System Administrator (RHCSA) Complete Video Course 3rd Edition has more than 16 hours of comprehensive video training-which includes whiteboard concept teaching, live CLI work, screencast teaching, and hands-on labs-so you have everything you need to study for and pass the RHCSA exam. This new edition of the best-selling RHCSA Complete Video Course , is fully updated for the RHEL 8 version of the exam. Overview The Red Hat Certified System Administrator (RHCSA) Complete Vide Course , 3rd edition is all new and fully updated for RHEL 8. This course is designed to teach you everything you need to know to pass the RHCSA exam. Every objective in the exam is discussed, along with in-depth lessons on complex topics, so they are not confusing. Each lesson ends with a lab, so you can dive into your own projects and see Red Hat in action; many of these labs mimic scenarios you might find on the exam, so you get the experience you need to practice for the exam. These labs also include video solutions, so you can also see in real-time how to work through the problems and figure out the best methods for working through each scenario. This course includes: All new videos Whiteboard instruction to help you grasp difficult concepts CLI instruction so you can see Red Hat in action Labs so you can practice your skills, plus solution videos so you can then compare your work to the author's Topics include: Module 1: Performing Basic System Management Tasks Module 2: Operating Running Systems Module 3: Performing Advanced System Administration Tasks Module 4: Managing Network Services Module 5: Sample Exam This engaging self-paced video training solution provides learners with more than 16 hours of video instruction from an expert trainer with more than 20 years of practical Linux teaching experience. Through the use of topic-focused instructional videos, you will gain an in-depth understanding of all topics on the Red Hat Certified Administrator (RHCSA) exam, as well as a deeper understanding of Red Hat Enterprise Linux, so you master the key foundational principles of systems administration. The combination of video, labs, practice exams, and virtual machines is a unique offering that gives you a full toolkit to learn and excel on your exam. About the Instructor Sander van Vugt has been teaching Linux classes since 1995 and has written more than 60 books about different Linux-related topics. Sander is a Red Hat C...

The best fully integrated study system available (Exams EX200 and EX300) With hundreds of review questions and complete coverage of performance-based requirements, RHCSA/RHCE Red Hat Linux Certification Study Guide, Sixth

Edition covers what you need to know--and shows you how to prepare--for these challenging exams. 100% complete coverage of all official objectives for Exams EX200 and EX300 Exam Readiness Checklist--you're ready for the exam when all objectives on the list are checked off Inside the Exam sections in every chapter highlight key exam topics covered Two-Minute Drills for quick review 100+ lab questions--two full lab-based RHCSA exams and two full lab-based RHCE exams--match the format, tone, topics, and difficulty of the real exam Covers all the exam topics, including: Virtual Machines and Automated Installations * Fundamental Command Line Skills * RHCSA-Level Security Options * The Boot Process * Linux Filesystem Administration * Package Management * User Administration * RHCSA-Level System Administration * RHCE Security * System Services and SELinux * RHCE Administration * Mail Servers * Samba * File Sharing * DNS, FTP, and Logging CD-ROM includes: Complete lab-based exam preparation, featuring: Two full RHCSA practice exams Two full RHCE practice exams Lab-based chapter self tests In-depth answer explanations for all labs RHCSA and RHCE Glossary PDF copy of the book for studying on the go Michael Jang, RHCE, LPIC-2, UCP, LCP, MCP, is the author of three previous bestselling editions of RHCE Red Hat Certified Engineer Linux Study Guide and several other books on Linux and professional certification.

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

Master every topic on Red Hat's new RHCSA™ and RHCE® exams. Assess your knowledge and focus your learning. Get the practical workplace knowledge you need! Start-to-finish RHCSA™ and RHCE® preparation from leading Linux system administrator, IT trainer, and certification expert Damian Tommasino! Master every RHCSA™ and RHCE® topic! Red Hat Enterprise Linux 6 local and network installation System services, runlevels, and bootup Disks, partitions, and file systems, including LUKS encryption Networking Package management User administration Logging, monitoring, and automation Kernel updates and tuning Security, including SELinux, firewalls, and policies Remote access, including SSH Apache, Squid, DNS, DHCP, NTP, and email NFS and Samba Client and network troubleshooting KVM virtualization Test your knowledge, build your confidence, and succeed! 22 hands-on RHCSA™ and RHCE® Labs, each with multiple real-world tasks Downloadable troubleshooting scripts Practical tutorials and real-world tips Exam tips Red Hat Enterprise Linux 6 Command Quick Reference Exclusive Red Hat exam prep advice and task lists Two full length lab-based practice exams Damian Tommasino (RHCE, RHCSA, MCSA, CCNA, CCENT, MCP, Security+, Network+, A+) is a Linux system administrator at TradeCard and CEO of Modular Learning Inc., an online IT training company. He blogs on Red Hat, Linux, and security at Security Nut (http://secnut.blogspot.com), and actively contributes to the popular IT exam certification forums at techexams.net.

Perfect for systems and network administrators migrating from Windows NT to Linux, or experimenting with bringing Linux into their network topology. Even novice users will find plenty of helpful information on administering the open source operating system—including installation, initial configuration, using the bash command shell, managing files, managing software, and granting rights to users.

Fully up to date with version 6 of Red Hat, this handbook gives readers everything they need to install, configure and administer Red Hay systems. Both novice and experienced system administrators can use this book to master Linux networking, file service, e-mail, security, back-ups, print sharing, Web, FTP, and much more.

Updated for Red Hat Enterprise Linux 7, the new edition of this challenging practice exams book features 100+ hands-on labs and three virtual machines that prepare you for the latest performance-based Red Hat Certified System Administrator (RHCSA) and Red Hat Certified Engineer (RHCE) exams. Designed to simulate Red Hat's performance-

based exams, RHCSA/RHCE Red Hat Linux Certification Practice Exams with Virtual Machines, Second Edition features 100+ practice labs that task you to perform assignments on a live system. The book comes complete with three virtual machines preloaded with all of the labs and practice exams. Each lab is accompanied by an in depth answer explanation. The organization of the book follows that of RHCSA/RHCE Red Hat Linux Certification Study Guide, Seventh Edition allowing you to focus on specific topics and tailor your study based on your areas of expertise and weakness. This revised edition provides updated and complete coverage of all official exam objectives for the new exams. Four complete practice exams are included, two for each exam, which can be used as the final step in exam preparation or as measurements of progress. Complete with three fully configured virtual machines which allow you to take the labs without having to first set up your environment to meet the exam specifications 100+ hands-on labs and four complete practice exams—two for RHSCA and two for RHCE Practical companion to the new edition of the bestselling RHCSA/RHCE Red Hat Linux Certification Study Guide

"Now with virtual machines and fully updated for RHEL 7.3, Red Hat Certified System Administrator (RHCSA) Complete Video Course with Virtual Machines, Second Edition gives you everything you need to prepare for and pass the RHCSA exam. This engaging self-paced video training solution provides learners with 15 hours of personal visual instruction from an expert trainer with more than 20 years of practical Linux teaching experience. Through the use of topic-focused instructional videos you will gain an in-depth understanding of all topics on the Red Hat Certified Administrator (RHCSA) exam as well as a deeper understanding of Red Hat Enterprise Linux so you master the key foundational principles of systems administration. The combination of video, labs, and virtual machines is a unique offering that gives you a full toolkit to learn and excel on your exam."--Resource description page.

The highly respected RHCE certification from Red Hat, Inc. indicates that the person has passed a realistic performance-based lab exam that tests his or her ability to install and configure Red Hat Linux, configure basic networking and file systems for a network, configure the X Window System, perform essential Red Hat Linux system administration, configure basic security for a network server, and carry out server diagnostics and troubleshooting. Red Hat recently updated the RHCE program for Red Hat Enterprise Linux, version 9.0. Previous edition ISBN: 0782127932.

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

Red Hat RHCE(TM) 8 Cert Guide is designed to help you pass the newest version of the Hat Certified Engineer exam for Red Hat Enterprise Linux 8, and master the skills you need to automate Linux and execute common system administration tasks with Red Hat(R) Ansible(R) Engine. The most comprehensive and time-efficient RHCE 8 prep guide available, it's also an extraordinarily cost-effective complement to other training, including the author's own RHCE Complete Video Course. Authored by a leading Red Hat trainer, consultant, and speaker, it presents focused, straight-to-the-point coverage of every exam topic, including: Performing Core Red Hat system administration tasks Understanding Ansible core components Installing and configuring Ansible control nodes Configuring Ansible managed nodes Administering scripts Performing system administration tasks with Ansible modules Working with roles Using advanced Ansible features such as templates and Ansible Vault From start to finish, this guide is organized to help you focus your study time where you need the most help, so you can retain more, and earn higher scores. It offers: Step-by-step chapter labs to help you practice what you've just learned Pre-exam theoretical exam to help you decide if you're ready for the real exam Two realistic RHCE sample exams delivered through Pearson's state-of-the-art test engine Pre-chapter "Do I Know This Already" (DIKTA) quizzes to assess your knowledge of each chapter's content, so you can decide how much time to spend on each section Foundation Topics sections thoroughly explaining concepts and theory, and linking them to real-world configurations and commands Key Topics icons flagging every figure, table, or list you absolutely must understand and remember End of chapter Glossary terms Chapter-ending Exam Preparation sections delivering even more exercises and troubleshooting scenarios

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.

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.

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 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

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