

Rhcva 7 Course

Master PowerCLI to automate all aspects of VMware environments About This Book Leverage PowerCLI to perform administration tasks in a more effective and efficient way Escape from daily tedious and repetitive tasks by unleashing the full potential of your creative side through scripting Master the intricate workings of PowerShell and PowerCLI through easy and real-life examples Who This Book Is For If you are a system administrator with working knowledge of PowerShell and PowerCLI who wants to perform quick and easy scripting but at the same time achieve complex results and write production grade scripts, then this book is for you. What You Will Learn Use GitHub for collaboration and Pester to automate unit tests Write advanced reusable functions and dynamic variables and learn about error handling in PowerShell Automate ESXi host installation using Auto-Deploy, host profile, and host image Implement security best practices in a vSphere data center Manage SRM, vCloud Air, and vRealize Operations environments Access and utilize vSphere APIs to manage advanced aspects of vSphere and work with .NET view objects Utilize REST APIs to manage vRealize Automation environments Create a Windows GUI through the use of PowerShell and Sapien PrimalForms CE In Detail Have you ever wished that every morning you could automatically get a report with all the relevant information about your datacenter in exactly the same format you want? Or whether you could automate that boring, exhausting task? What if some crucial task needs to be performed on a regular basis without any error? PowerCLI scripts do all that and much more for VMware environments. It is built on top of the popular Windows PowerShell, with which you can automate server tasks and reduce manual input, allowing you to focus on more important tasks. This book will help you to achieve your goals by starting with a short refresher on PowerShell and PowerCLI and then covering the nuances of advanced functions and reusable scripts. Next you will learn how to build a vSphere-powered virtualized datacenter using PowerCLI while managing different aspects of the environment including automated installation, network, and storage. You will then manage different logical constructs of vSphere environment and different aspects of a virtual machine. Later, you will implement the best practices for a security implementation in vSphere Environment through PowerCLI before discovering how to manage other VMware environments such as SRM, vCloud Director and vCloud Air through PowerCLI. You will also learn to manage vSphere environments using advanced properties by accessing vSphere API and REST APIs through PowerCLI. Finally, you will build a Windows GUI application using PowerShell followed by a couple of sample scripts for reporting and managing vSphere environments with detailed explanations of the scripts. By the end of the book, you will have the required in-depth knowledge to master the art of PowerCLI scripting. Style and approach In this book, every topic is explained in a very easy-to-follow fashion with real-life, simple examples so that you get an idea of not only the topic but also the context in which it should be used or where it can be best utilized.

SAP ERP modules are notoriously hard to configure and use effectively without a lot of practice and experience. But as SAP ERP Financial Accounting and Controlling: Configuration and Use Management shows, it doesn't have to be so difficult. The book takes a systematic approach that leads SAP Financial Accounting and Controlling (FICO) users step by step through configuring and using all the program's facets. This approach makes configuration complexities manageable. The book's author—SAP expert, trainer, and accountant Andrew Okungbowa—ensures that both you and your end users are up and running quickly and confidently with FICO. He also provides sound and tested procedures that ensure your implementation works without error. SAP ERP Financial Accounting and Controlling: Configuration and Use Management is in fact the most comprehensive and easy-to-follow SAP FICO configuration book in the market. It incorporates a hands-on approach, with hundreds of screen shots and practical examples, that allows a person without prior configuration training to make SAP FICO ready for use in the enterprise. You'll find that you don't need to be a rocket scientist to grasp the concepts explained and apply them to your work—even when the finances are complicated, such as with the ins and outs of taxes, currency conversions, or special general ledger entries such as down payments or bills of exchange. Providing an in-depth coverage of both configuration and end user procedures, the book covers most aspects of the SAP FICO certification syllabus—SAP's view of the module's key tasks and procedures—including: Configuring and using the general ledger and accounts payable and receivable screens Configuring and completing closing procedures, asset accounting, and financial reporting Configuring global settings and enterprise variables Accounting for both profit and cost centers Creating a house bank Integrating FICO with other SAP modules Taking a jargon-free tone and providing an abundance of examples, Andrew Okungbowa provides a clear understanding of configuration techniques and the breadth of functionalities encompassed by SAP FICO. And as an accountant, Okungbowa understands the needs of end users as well as of those answering to the CIO.

Pro Linux High Availability Clustering teaches you how to implement this fundamental Linux add-on into your business. Linux High Availability Clustering is needed to ensure the availability of mission critical resources. The technique is applied more and more in corporate datacenters around the world. While lots of documentation about the subject is available on the internet, it isn't always easy to build a real solution based on that scattered information, which is often oriented towards specific tasks only. Pro Linux High Availability Clustering explains essential high-availability clustering components on all Linux platforms, giving you the insight to build solutions for any specific case needed. In this book four common cases will be explained: Configuring Apache for high availability Creating an Open Source SAN based on DRBD, iSCSI and HA clustering Setting up a load-balanced web server cluster with a back-end, highly-available database Setting up a KVM virtualization platform with high-availability protection for a virtual machine. With the knowledge you'll gain from these real-world applications, you'll be able to efficiently apply Linux HA to your work situation with confidence. Author Sander Van Vugt teaches Linux high-availability clustering on training courses, uses it in his everyday work, and now brings this knowledge to you in one place, with clear examples and cases. Make the

best start with HA clustering with Pro Linux High Availability Clustering at your side.

Beyond Expectations: From Charcoal to Gold is as interesting as it is inspiring. It is the story of a freedom fighter and a cultural activist; the story of an astute businessman and a shrewd politician; the story of a generous family man and a philanthropist; the story of an eminent elder and a gifted storyteller. It is the story of Njenga Karume Njenga Karume's phenomenal rise from a charcoal burner to a business magnate has been the subject of myths over the years. Yet, few can authoritatively relate Njenga's journey' from his humble beginnings during the colonial period to his current fascinating financial and political success In this autobiography, Njenga traces his early life right from birth in 1929, and takes the reader through the various spheres of his inspiring; life characterised by an enviable work ethic, unpretentious patriotism, knowledge of human psychology and extraordinary intelligence. Here is an outgoing personality who was born in poverty, received minimal education and then, through his own initiative, ventured into business during one of the toughest times in Kenya's colonial history. Yet, he succeeded in business beyond anyone's wildest dreams and rose to such prominence and popularity that he became a respected politician and Cabinet Minister who interacted intimately with all the first three Presidents of independent Kenya "An interesting, informative and inspiring story of a brilliant, self-made man."

The FE exam, the first in the two-part engineering licensing process, is taken typically by upper-level students or recent graduates in April or October. This eight-hour exam is closed-book except for a handout provided in the examination room. The exam is divided into morning and afternoon sessions. The morning exam, with 120 multiple-choice problems, is the same for everyone. In the afternoon, examinees must choose to take a discipline-specific (DS) or a general exam, each with 60 multiple-choice problems. The FE Review Manual and the Engineer-in-Training Reference Manual are the core books used to prepare for the morning and general afternoon exams. This is the most effective, up-to-date, all-in-one review your engineering customers can buy for the general Fundamentals of Engineering (FE) exam. Plus, the FE Review Manual carries a money-back guarantee: Pass the test or get your money back from the publisher. The book is an ideal refresher for students, recent graduates, or engineers who have limited time to study. The FE Review Manual features: -- Full review of topics on the general FE/EIT exam -- More than 1,150 problems with solutions -- A complete practice exam with solutions -- Diagnostic exams by topic -- so engineers can test their readiness and understanding of each topic before they begin to study

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.

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 this comprehensive Sybex book. It covers RHEL administration in detail, including how to set up and manage web and mail services, use RHEL in enterprise environments, secure it, optimize storage, configure for virtualization and high availability, and much more. It also provides a great study aid for those preparing for either the RHCSA or RHCE certification exam. Red Hat is the Linux market leader, and Red Hat administrators are in demand This Sybex guide is a comprehensive resource on Red Hat Enterprise Linux administration and useful for those preparing for one of the Red Hat certification exams Covers setting up and managing web and mail services, using RHEL in enterprise environments, securing RHEL, and optimizing storage to fit your environment Explores advanced RHEL configurations, including virtualization and high availability Red Hat Enterprise Linux 6 Administration is the guide Linux professionals and Red Hat administrators need to stay current on the newest version.

Day Bang is a 201-page book that teaches you how to pick up women during the day, primarily in a coffee shop, clothing store, bookstore, grocery store, subway, or on the street. It contains 51 openers, 23 long dialogue examples with commentary, and dozens of additional lines that teach by example. Day Bang includes... -The optimal day game mindset that leads to the most amount of success-An easy mental trick to prevent your brain from going into a flight-or-fight response when it's time to approach a woman you're attracted to-A detailed breakdown of how to use the "elderly opener," an easy style of approach that reliably starts conversations with women-2 ways to tell if a girl will be receptive to your approach-How to avoid the dreaded "interview vibe"-10 common mistakes guys make that hurt their chances of getting a number Day Bang shares tons of tips and real examples on having successful conversations. It teaches you... -How to use my bait system to get the girl engaged and interested in you-How to segue out of the initial opening topic into a more personal chat where you'll get to know the girl on a deeper level-How to take the interesting things you've done (your accomplishments, hobbies, and experiences) and morph them into bait hooks that gets the girl intrigued enough to want to go out with you-My "Galnuc" method to seamlessly get a girl's number-An easy hack at the end of your interactions that will reduce the chance of a flake and prime the girl for going out with you-Ways to open up a conversation on a girl who isn't giving you much to work with Day Bang goes into painstaking detail on how to approach women in a variety of common environments... -How to open a girl in coffee shops when she has a book, laptop, mp3 player, cell phone, research paper, crossword or Sudoku puzzle, or nothing at all-Two methods for approaching a girl on the street, depending on if she's moving or not, with a diagram to explain all the approach variations-How to approach in a retail store or mall environment, with openers to use on customers or sales clerks-How to approach in bookstores, with specific tips on how to customize your approaches in the cafe, magazine section, or general book aisles-How to meet women in public transportation, on both the bus and subway-How to meet women in grocery stores-How to approach girls in secondary venues like a beach, casino, concert, gym, hair salon,

handicraft fair, museum, art show, park, public square, or wine festival Dozens of additional topics are logically organized into 12 chapters... -Preparation. How to reduce your approach anxiety-Opening. How to deliver your opener in a way that doesn't scare women away-Rambling. How to have conversations that make women interested in you-Closing. How to get a number in a way that reduces the chance she'll flake-The Coffee Shop. How to pick up in coffee shops and cafes-The Street. How to pick up outdoors-The Clothing Shop. How to pick up in retail shops, malls, and big box stores-The Bookstore. How to pick up in bookstores-Public Transportation. How to pick up in the bus, subway, or long distance transportation-The Grocery Store. How to pick up in grocery stores-Other Venues. How to pick up just about anywhere else women can be found-Putting It All Together. How to maximize your day game potential The lessons taught in this 75,000 word, no-fluff textbook will help you meet women during the day. If you need tips on what to do after getting her number, consult my other book Bang, which contains an A-to-Z banging strategy. Day Bang focuses exclusively on daytime approaching.

Ripped from recent headlines, this gripping cyber-attack tale has all the elements of an international thriller, including a floating corpse in the Gulf of Finland. Meet an underground criminal supply chain, its innocent victims, and an unlikely midwestern IT group with an ingenious way to fight back against the theft of millions of credit-card numbers. If data breaches were not routine by now, this story would be unbelievable. Instead, it's a snapshot of life in today's interconnected world, and an unforgettable Internet safety education. IT security has never been so riveting!

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

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.

Need to configure or manage Novell Cluster Services on NetWare, Linux or a mixed environment? Pick up a copy of the official reference guide, Novell Cluster Services for Linux and NetWare. This book blends in-depth information with practical, real world examples to cover cluster services configuration strategies, backup requirements, cluster services management, and upgrading tactics. You'll gain invaluable insight from authors Rob Bastiaansen and Sander van Vugt, two Novell Certified Instructors with day-to-day experience consulting on the topics covered in this book. Master installing and managing Novell Cluster Services with the tutorial not available from anyone else, Novell Cluster Services for Linux and NetWare.

This book guides you through all of the key configuration and administration tasks you'll need to know to quickly deploy and manage the Ubuntu Server distribution. Whether you're interested in adopting Ubuntu within a Fortune 500 environment or just want to use Ubuntu to manage your home network, this book is your go-to guide to using the distribution securely for a wide variety of network services. Topics include file, print, web, and FTP management, command-line tips and tricks, automated installation, configuration and deployment processes, and kernel management.

The Practical Guide to Running Docker on Linux Systems or Cloud Environments Whether on your laptop or a remote cloud, Docker can transform how you create, test, deploy, and manage your most critical applications. In Docker Containers , Christopher Negus helps you master Docker containerization from the ground up. You'll start out running a few Docker container images in Ubuntu, Fedora, RHEL, CoreOS, or Project Atomic. By the time you've finished, you'll be deploying enterprise-quality, multi-container Kubernetes setups in modern Linux and cloud environments. Writing for system administrators, software developers, and technology enthusiasts, Negus touches on every aspect of working with Docker: setting up containerized applications, working with both individual and multiple containers, running containers in cloud environments, and developing containers.

Teaching through realistic examples of desktop applications, system services, and games, Negus guides you through building and deploying your own Dockerized applications. As you build your expertise, you'll also learn indispensable Docker best practices for building and integrating containers, managing Docker on a day-to-day basis, and much more: * Understanding what Docker is and what you can do with it * Installing Docker on standard Linux or specialized container operating systems such as Atomic Host and CoreOS * Setting up a container runtime environment and private Docker Registry * Creating, running, and investigating Docker images and containers * Finding, pulling, saving, loading, and tagging container images * Pulling and pushing containers between local systems and Docker Registries * Integrating Docker containers with host networking and storage * Building containers with the docker build command and Dockerfile files * Minimizing space consumption and erasing unneeded containers * Accessing special host privileges from within a container * Orchestrating multiple containers into complex applications with Kubernetes * Using super privileged containers in cloud environments * Managing containers in the cloud with Cockpit * Getting started with Docker container development * Learning container build techniques from shared Dockerfiles This book is part of the Pearson Content Update Program. As the technology changes, sections of this book will be updated or new sections will be added. The updates will be delivered to you via a free Web Edition of this book, which can be accessed with any Internet connection.

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.

A course in the administration and security of Enterprise Linux v7. Intended for use in government and other cyber-security aware environments.

RHCERed Hat Certified Engineer Study GuideSybex

Pro Ubuntu Server Administration teaches you advanced Ubuntu system building. After reading this book, you will be able to manage anything from simple file servers to multiple virtual servers to high-availability clusters. This is the capstone volume of the Apress Ubuntu trilogy that includes Beginning Ubuntu Linux, Third Edition and Beginning Ubuntu Server LTS Administration: From Novice to Professional, Second Edition. You will be able to make Ubuntu technology shine in a Fortune 500 environment and let Ubuntu server become the backbone of your infrastructure. Topics covered include Performance monitoring and optimization High-availability clustering Advanced Lightweight Directory Access Protocol (LDAP) integrated networking

Kubernetes has become the dominant container orchestrator, but many organizations that have recently adopted this system are still struggling to run actual production workloads. In this practical book, four software engineers from VMware bring their shared experiences running Kubernetes in production and provide insight on key challenges and best practices. The brilliance of Kubernetes is how configurable and extensible the system is, from pluggable runtimes to storage integrations. For platform engineers, software developers, infosec, network engineers, storage engineers, and others, this book examines how the path to success with Kubernetes involves a variety of technology, pattern, and abstraction considerations. With this book, you will: Understand what the path to production looks like when using Kubernetes Examine where gaps exist in your current Kubernetes strategy Learn Kubernetes's essential building blocks--and their trade-offs Understand what's involved in making Kubernetes a viable location for applications Learn better ways to navigate the cloud native landscape

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

"The definitive work on Red Hat Linux. Chain it to your desk. You'll browse others, but you'll wear this one out." -Nicholas Petreley, Founding Editor of LinuxWorld If Red Hat Linux 9 can do it, you can do it too... Activate the power of Red Hat Linux 9, the most popular distribution of this practical, economical operating system, with the in-depth information in this comprehensive reference manual. If you're exploring Linux for the first time, the hands-on instructions for installing, configuring, and customizing the system will get you going with confidence. If you're a Red Hat veteran, Linux expert Christopher Negus gives you everything you need to administer the latest desktop, server, and networking enhancements, plus much more. Inside, you'll find complete coverage of Red Hat Linux 9 * Explore GNOME and KDE desktop menus, panels, file managers, workspaces, and themes * Configure a firewall to share your Internet connection and protect your LAN * Run applications for Internet browsing, publishing, music,

video, and gaming * Construct your own public Internet server, complete with mail, DNS, FTP, and Web services * Administer users, manage backups, and automate system tasks * Create dial-up connections, wireless LANs, and virtual private networks (CIPE) * Set up Windows (Samba), Mac (netatalk), or NetWare (mars-nwe) file and print sharing from Linux * Use the Red Hat Network up2date facility to easily get software updates Special 3 CD-ROM version of Red Hat Linux 9, with 260 additional packages not included in the standard 2 CD Publisher's Edition Red Hat Linux 9 core includes: Linux kernel, GNU C compiler, GNOME desktop, Apache Web server, Samba Windows file/print sharing, CUPS print service, Sendmail mail server, and BIND DNS server Additional packages include: * KDE desktop * samba-swat * vsftpd * spamassassin * sendmail-cf * Legacy UNIX network services * Tripwire * sndconfig

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

"I have found this book to be a very useful classroom text, as well as a great Linux resource. It teaches Linux using a ground-up approach that gives students the chance to progress with their skills and grow into the Linux world. I have often pointed to this book when asked to recommend a solid Linux reference." —Eric Hartwell, Chair, School of Information Technology, ITT Technical Institute The #1 Fedora and RHEL resource—a tutorial AND on-the-job reference Master Linux administration and security using GUI-based tools, the command line, and Perl scripts Set up key Internet servers, step by step, including Samba, Apache, sendmail, DNS, LDAP, FTP, and more Master All the Techniques You Need to Succeed with Fedora™ and Red Hat® Enterprise Linux® In this book, one of the world's leading Linux experts brings together all the knowledge you need to master Fedora or Red Hat Enterprise Linux and succeed with it in the real world. Best-selling author Mark Sobell explains Linux clearly and effectively, focusing on skills you'll actually use as a user, programmer, or administrator. Now an even more versatile learning resource, this edition adds skill objectives at the beginning of each chapter. Sobell assumes no prior Linux knowledge. He starts at the beginning and walks you through every topic and task that matters, using easy-to-understand examples. Step by step, you'll learn how to install and configure Linux, navigate its graphical user interface, provide file/print sharing, configure network servers, secure Linux desktops and networks, work with the command line, administer Linux efficiently, and even automate administration with Perl scripts. Mark Sobell has taught hundreds of thousands of Linux and UNIX professionals. He knows every Linux nook and cranny—and he never forgets what it's like to be new to Linux. Whatever you want to do with Linux—now or in the future—you'll find it here. Compared with the other Linux books out there, A Practical Guide to Fedora™ and Red Hat® Enterprise Linux®, Sixth Edition, delivers Complete, up-to-the-minute coverage of Fedora 15 and RHEL 6 State-of-the-art security techniques, including up-to-date firewall setup techniques using system-config-firewall and iptables, and a full chapter on OpenSSH (ssh) Coverage of crucial topics such as using su and sudo, and working with the new systemd init daemon Comprehensive coverage of the command line and key system GUI tools More practical coverage of file sharing using Samba, NFS, and FTP Superior coverage of automating administration with Perl More usable, realistic coverage of Internet server configuration, including Apache (Web), sendmail, NFSv4, DNS/BIND, and LDAP, plus new coverage of IPv6 More and better coverage of system/network administration tasks, including network monitoring with Cacti Deeper coverage of essential administration tasks—from managing users to CUPS printing, configuring LANs to building a kernel Complete instructions on keeping Linux systems up-to-date using yum And much more, including a 500+ term glossary and comprehensive indexes

Validate your AWS skills. This is your opportunity to take the next step in your career by expanding and validating your skills on the AWS cloud. AWS has been the frontrunner in cloud computing products and services, and the AWS Certified Solutions Architect Official Study Guide for the Associate exam will get you fully prepared through expert content, and real-world knowledge, key exam essentials, chapter review questions, access to Sybex's interactive online learning environment, and much more. This official study guide, written by AWS experts, covers exam concepts, and provides key review on exam topics, including: Mapping Multi-Tier Architectures to AWS Services, such as web/app servers, firewalls, caches and load balancers Understanding managed RDBMS through AWS RDS (MySQL, Oracle, SQL Server, Postgres, Aurora) Understanding Loose Coupling and Stateless Systems Comparing Different Consistency Models in AWS Services Understanding how AWS CloudFront can make your application more cost efficient, faster and secure Implementing Route tables, Access Control Lists, Firewalls, NAT, and DNS Applying AWS Security Features along with traditional Information and Application Security Using Compute, Networking, Storage, and Database AWS services Architecting Large Scale Distributed Systems Understanding of Elasticity and Scalability Concepts Understanding of Network Technologies Relating to AWS Deploying and Managing Services with tools such as CloudFormation, OpsWorks and Elastic Beanstalk. Learn from the AWS subject-matter experts, review with proven study tools, and apply real-world scenarios. If you are looking to take the AWS Certified Solutions Architect Associate exam, this guide is what you need for comprehensive content and robust study tools that will help you gain the edge on exam day and throughout your career.

This textbook offers an exhaustive, step-by-step guide through the powerful features of the Oracle Business Intelligence (BI) product suite. One will learn the concepts, methods and techniques for building sophisticated data analytic modules. Analytic results are then organized into interactive dashboards. A solid foundation is laid for one to progress onto the latest and most advanced data analytic capabilities. The following specific topics are included in this guide book: Background discussion of data warehousing, business intelligence (BI) and data analytics presented in a form that business professionals can readily understand; Background concepts regarding logical data models, star schema and snowflake schema warehouse models; How to build analytical models using fact tables, dimensions, dimension hierarchies, cubes, measures and other multidimensional data model objects; Use interactive Dashboards to analyze data, uncover trends and make strategic business decisions; Export BI results to productivity software such as Microsoft Office or other external systems; Design customized Dashboards to reflect an individual's role, perspective or business interest; Creating data analyses and dynamically interact with results produced from Oracle BI; Format analyses using sorts, filters and prompts; Format column output, subtotalling, customization of column properties and transforming column data using formulas; Create results with compound layouts, including views such as tabular, chart, pivot table, gauge and others; Manage content, permissions and access within the Presentation Catalog.

This textbook includes dozens of learning exercises, with detailed point-and-click solutions also provided.

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. Use Red Hat's security tools to establish a set of security strategies that work together to help protect your digital data. You will begin with the basic concepts of IT security and DevOps with topics such as CIA triage, security standards, network and system security controls and configuration, hybrid cloud infrastructure security, and the CI/CD process. Next, you will integrate and automate security into the DevOps cycle, infrastructure, and security as code. You will also learn how to automate with Red Hat Ansible Automation Platform and about hybrid cloud infrastructure. The later chapters will cover hyper-converged infrastructure and its security, Red Hat Smart Management, predictive analytics with Red Hat Insights, and Red Hat security auditing to ensure best security practices. Lastly, you will see the different types of case studies with real-world examples. Red Hat and IT Security will help you get a better understanding of IT security concepts from a network and system administration perspective. It will help you to understand how the IT infrastructure landscape can change by implementing specific security best practices and integrating Red Hat products and solutions to counter against modern cybersecurity threats. What You Will Learn ? Understand IT infrastructure security and its best practices ? Implement hybrid cloud infrastructure ? Realign DevOps process into DevSecOps, emphasizing security ? Implement automation in IT infrastructure services using Red Hat Ansible ? Explore Red Hat Smart Management, predictive analytics, and auditing Who This Book Is For IT professionals handling network/system administration or the IT infrastructure of an organization. DevOps professionals and cybersecurity analysts would find the book useful.

Atmel's AVR microcontrollers are the chips that power Arduino, and are the go-to chip for many hobbyist and hardware hacking projects. In this book you'll set aside the layers of abstraction provided by the Arduino environment and learn how to program AVR microcontrollers directly. In doing so, you'll get closer to the chip and you'll be able to squeeze more power and features out of it. Each chapter of this book is centered around projects that incorporate that particular microcontroller topic. Each project includes schematics, code, and illustrations of a working project. Program a range of AVR chips Extend and re-use other people's code and circuits Interface with USB, I2C, and SPI peripheral devices Learn to access the full range of power and speed of the microcontroller Build projects including Cylon Eyes, a Square-Wave Organ, an AM Radio, a Passive Light-Sensor Alarm, Temperature Logger, and more Understand what's happening behind the scenes even when using the Arduino IDE

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.

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.

This book presents the proceedings of the 6th International Conference on Frontiers of Intelligent Computing: Theory and Applications (FICTA-2017), held in Bhubaneswar, Odisha. The event brought together researchers, scientists, engineers, and practitioners to exchange their new ideas and experiences in the domain of intelligent computing theories with prospective applications to various engineering disciplines. The book is divided into two volumes: Information and Decision Sciences, and Intelligent Engineering Informatics. This volume covers broad areas of Information and Decision Sciences, with papers exploring both the theoretical and practical aspects of data-intensive computing,

data mining, evolutionary computation, knowledge management & networks, sensor networks, signal processing, wireless networks, protocols & architectures etc. The book also offers a valuable resource for students at the post-graduate level in various engineering disciplines.

The book describes the emergence of big data technologies and the role of Spark in the entire big data stack. It compares Spark and Hadoop and identifies the shortcomings of Hadoop that have been overcome by Spark. The book mainly focuses on the in-depth architecture of Spark and our understanding of Spark RDDs and how RDD complements big data's immutable nature, and solves it with lazy evaluation, cacheable and type inference. It also addresses advanced topics in Spark, starting with the basics of Scala and the core Spark framework, and exploring Spark data frames, machine learning using Mllib, graph analytics using Graph X and real-time processing with Apache Kafka, AWS Kenisis, and Azure Event Hub. It then goes on to investigate Spark using PySpark and R. Focusing on the current big data stack, the book examines the interaction with current big data tools, with Spark being the core processing layer for all types of data. The book is intended for data engineers and scientists working on massive datasets and big data technologies in the cloud. In addition to industry professionals, it is helpful for aspiring data processing professionals and students working in big data processing and cloud computing environments.

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.

Highlights: > Updated to the latest version of Red Hat Enterprise Linux 7 > Updated 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.

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 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

This book is for users preparing to become certified for the 70-680 Windows 7 Configuration exam. The Microsoft Official Academic Course (MOAC) lessons correlate and are mapped to the Microsoft Certified Technology Specialist (MCTS) 70-680 certification exam. This book includes installing, deployment, and upgrade to Windows 7. The text also covers new Windows 7 features such as BranchCache and HomeGroup networking. Additionally, you will master configuration pre-installation and post-installation system settings, Windows security features, network connectivity applications included with Windows 7, and mobile computing. The MOAC IT Professional series is the Official from Microsoft, turn-key Workforce training program that leads to professional certification. With the Microsoft Official Academic course program, you are getting instructional support from Microsoft; materials that are current, accurate, and technologically innovative.

Focused technical guidance from System Center experts Part of a series of specialized guidance on System Center--this book provides a single end-to-end resource on Microsoft's software-defined datacenter solution built upon Windows Server 2012 R2 Hyper-V and System Center 2012 R2 Virtual Machine Manager. The book walks you through a proof of concept (POC) deployment of a software-defined compute, storage, and networking infrastructure, starting from racking bare-metal servers through to the streamlined deployment of virtual machines. This book discusses the evolution of future-generation technologies through the Internet of things, bringing together all the related technologies on a single platform to offer valuable insights for undergraduate and postgraduate students, researchers, academics and industry practitioners. The book uses data, network engineering and intelligent decision- support system-by-design principles to design a reliable IoT-enabled ecosystem and to implement cyber-physical pervasive infrastructure solutions. It takes readers on a journey that begins with understanding the insight paradigm of IoT-enabled technologies and how it can be applied. It walks readers through engaging with real-time challenges and building a safe infrastructure for IoT-based, future-generation technologies. The book helps researchers and practitioners to understand the design architecture through IoT and the state of the art in IoT countermeasures. It also highlights the differences between heterogeneous platforms in IoT-enabled infrastructure and traditional ad hoc or infrastructural networks, and provides a comprehensive discussion on functional frameworks for IoT, object identification, IoT domain model, RFID technology, wearable sensors, WBAN, IoT semantics, knowledge extraction, and security and privacy issues in IoT-based ecosystems. Written by leading international experts, it explores IoT-enabled insight paradigms, which are utilized for the future benefit of humans. It also includes references to numerous works. Divided into stand-alone chapters, this highly readable book is intended for specialists, researchers, graduate students, designers, experts, and engineers involved in research on healthcare-related issues.

Ace your preparation for Microsoft® Certification Exam 70-463 with this 2-in-1 Training Kit from Microsoft Press®. Work at your own pace through a series of lessons and practical exercises, and then assess your skills with online practice tests—featuring multiple, customizable testing options.

This is Linux for those of us who don't mind typing. All Linux users and administrators tend to like the flexibility and speed of Linux administration from the command line in byte-sized chunks, instead of fairly standard graphical user interfaces. Beginning the Linux Command Line is verified against all of the most important Linux distributions, and follows a task-oriented approach which is distribution agnostic. Now this Second Edition of Beginning the Linux Command Line updates to the very latest versions of the Linux Operating System, including the new Btrfs file system and its management, and systemd boot procedure and firewall management with firewalld! Updated to the latest versions of Linux Work with files and directories, including Btrfs! Administer users and security, and deploy firewalld Understand how Linux is organized, to think Linux!

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