

## Linux Essentials Second Edition

This book takes you on a fantastic journey to discover the attributes of big data using Apache Hive. Key Features Grasp the skills needed to write efficient Hive queries to analyze the Big Data Discover how Hive can coexist and work with other tools within the Hadoop ecosystem Uses practical, example-oriented scenarios to cover all the newly released features of Apache Hive 2.3.3 Book Description In this book, we prepare you for your journey into big data by firstly introducing you to backgrounds in the big data domain, alongwith the process of setting up and getting familiar with your Hive working environment. Next, the book guides you through discovering and transforming the values of big data with the help of examples. It also hones your skills in using the Hive language in an efficient manner. Toward the end, the book focuses on advanced topics, such as performance, security, and extensions in Hive, which will guide you on exciting adventures on this worthwhile big data journey. By the end of the book, you will be familiar with Hive and able to work efficiently to find solutions to big data problems What you will learn Create and set up the Hive environment Discover how to use Hive's definition language to describe data Discover interesting data by joining and filtering datasets in Hive Transform data by using Hive sorting, ordering, and functions Aggregate and sample data in different ways Boost Hive query performance and enhance data security in Hive Customize Hive to your needs by using user-defined functions and integrate it with other tools Who this book is for If you are a data analyst, developer, or simply someone who wants to quickly get started with Hive to explore and analyze Big Data in Hadoop, this is the book for you. Since Hive is an SQL-like language, some previous experience with SQL will be useful to get the

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most out of this book.

The premium edition features the bestselling book plus one year of unlimited access\* to Practice Labs for CompTIA Linux+, including real world hands-on tasks carried out on real hardware simply accessed from a web browser. An innovative, hands-on study system from a team of CompTIA certification and Linux experts, CompTIA Linux+/LPIC-1 Certification All-in-One Exam Guide, Premium Edition with Online Practice Labs offers complete lab based coverage of CompTIA Linux+ exams LX0-103 and LX0-104. The Practice Labs platform offers an opportunity to work with industry standard technologies to provide hands-on experience and help you develop a deeper understanding of the topics covered in the certification exams. One year of online access includes: Real hardware and software needed to develop your practical skills—this is not a simulation but access to the actual equipment you would expect to find in any work place along with a wide range of industry standard technologies Certification labs for CompTIA Linux+—the associated lab guide provides realistic scenarios and clear step-by-step instructions Real world configurations that provide sufficient hardware not only to carry out tasks but also test the impact of those changes Administrative access to the relevant devices giving you complete control to carry out either your own configurations, or to follow the lab guide to configure specific technologies required for CompTIA Linux+ The ability to reset and start over with the click of a button—no fear of making mistakes! The book features learning objectives at the beginning of each chapter, exam tips, and end of chapter practice questions with in-depth answer explanations. Designed to help you pass the exams with ease, this definitive volume also serves as an essential on-the-job reference. The book also includes: Practice Test Software with hundreds of questions (Microsoft Windows only) Virtual machine

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with custom configurations for select chapter exercises PDF copy of the book CompTIA Linux+/LPIC-1 Certification All-in-One Exam Guide covers all exam topics, including how to: Work with the Linux shell Use the vi text editor Manage Linux files and directories Install Linux and manage the boot process Configure the graphical environment Manage software and hardware Manage users, groups, file systems, and processes Administer ownership, permissions, and quotas Write shell scripts Manage network settings and services Secure Linux and use encryption \*For complete one-year access, initial registration must occur within the first two years of the Premium Edition's date of publication.

By staying current, remaining relevant, and adapting to emerging course needs, Operating System Concepts by Abraham Silberschatz, Peter Baer Galvin and Greg Gagne has defined the operating systems course through nine editions. This second edition of the Essentials version is based on the recent ninth edition of the original text. Operating System Concepts Essentials comprises a subset of chapters of the ninth edition for professors who want a shorter text and do not cover all the topics in the ninth edition. The new second edition of Essentials will be available as an ebook at a very attractive price for students. The ebook will have live links for the bibliography, cross-references between sections and chapters where appropriate, and new chapter review questions. A two-color printed version is also available. 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. Fully updated coverage of every topic on the current version of the GSEC exam Get complete coverage of all the objectives on Global Information Assurance Certification's Security Essentials (GSEC) exam inside this comprehensive resource. GSEC GIAC Security

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Essentials Certification All-in-One Exam Guide, Second Edition provides learning objectives at the beginning of each chapter, exam tips, practice exam questions, and in-depth explanations. Designed to help you pass the exam with ease, this authoritative resource also serves as an essential on-the-job reference. Covers all exam topics, including:

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- Network design
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- Risk management
- Virtual machines
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Linux Essentials John Wiley & Sons

Everything you need to start working with React 16 and assess React Fiber About This Book Hands-on examples and tutorials for the latest React 16 release Assess the impact of React Fiber for your future web development Build maintainable and high performance React 16 web applications Who This Book Is For If you're a frontend developer with some knowledge of native JavaScript development and frontend frameworks, wishing to learn the fastest web user interface library there is, then this book is ideal for you. What You Will Learn Learn to code React 16 with hands-on examples and clear tutorials Install powerful React 16 tools to make development much more efficient Understand the impact of React Fiber today and the future of your web development Utilize the Redux application architecture with your React components Create React 16 elements with properties and children Get started with stateless and stateful React components Use JSX to speed up your React 16 development process Add reactivity to your React 16 components with lifecycle methods Test your React 16 components with the

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Jest test framework In Detail React 16 Essentials, Second Edition, fully updated for React 16, takes you on a fast-paced journey through building your own maintainable React 16 applications. React experts Artemij Fedosejev and Adam Boduch give you all the essentials you need to know and start working with React 16, in this new edition of the best-selling React.js Essentials title. You'll find the latest React 16 code updates, assessment of React Fiber, new coverage of Redux, and how to work as a modern React developer. The authors offer you their current assessment of React Fiber, and you'll soon be exploring React 16 hands on, creating your own single and multiple user interface elements with React 16. You'll then see how to create stateless and stateful components and make them reactive. You'll also learn to interact between your components and lifecycle methods, and gauge how to effectively integrate your user interface components with other JavaScript libraries. Delve deep into the core elements of the Redux architecture and learn how to manage your application and data persistence. Then go the extra mile with the Jest test framework, and run multiple tests on your applications and find solutions to scale without complexity. Today React is used by Facebook, Instagram, Khan Academy, and Imperial College London, to name a few. Many new users recognize the benefits of React and adopt it in their own projects, forming a fast-growing community. The speed at which React has evolved promises a bright future for anyone who invests in learning it today. Let Artemij and Adam bring you a brand new look at React 16 and React Fiber, and move your web development into the future. Style and approach React 16 Essentials, Second Edition, will take you on a fast-paced, hands-on journey through building your own maintainable React 16 applications.

Leverage the functional programming and concurrency features of Rust and speed up your

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application development About This Book Get started with Rust to build scalable and high performance applications Enhance your application development skills using the power of Rust Discover the power of Rust when developing concurrent applications for large and scalable software Who This Book Is For The book is for developers looking for a quick entry into using Rust and understanding the core features of the language. Basic programming knowledge is assumed. What You Will Learn Set up your Rust environment to achieve the highest productivity Bridge the performance gap between safe and unsafe languages Use pattern matching to create flexible code Apply generics and traits to develop widely applicable code Organize your code in modules and crates Build macros to extend Rust's capabilities and reach Apply tasks to tackle problems concurrently in a distributed environment In Detail Rust is the new, open source, fast, and safe systems programming language for the 21st century, developed at Mozilla Research, and with a steadily growing community. It was created to solve the dilemma between high-level, slow code with minimal control over the system, and low-level, fast code with maximum system control. It is no longer necessary to learn C/C++ to develop resource intensive and low-level systems applications. This book will give you a head start to solve systems programming and application tasks with Rust. We start off with an argumentation of Rust's unique place in today's landscape of programming languages. You'll install Rust and learn how to work with its package manager Cargo. The various concepts are introduced step by step: variables, types, functions, and control structures to lay the groundwork. Then we explore more structured data such as strings, arrays, and enums, and you'll see how pattern matching works. Throughout all this, we stress the unique ways of reasoning that the Rust compiler uses to produce safe code. Next we look at Rust's specific

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way of error handling, and the overall importance of traits in Rust code. The pillar of memory safety is treated in depth as we explore the various pointer kinds. Next, you'll see how macros can simplify code generation, and how to compose bigger projects with modules and crates. Finally, you'll discover how we can write safe concurrent code in Rust and interface with C programs, get a view of the Rust ecosystem, and explore the use of the standard library. Style and approach The book takes a pragmatic approach, showing various methods to solve systems programming tasks with Rust and develop resource intensive and low-level systems applications.

IPv6 Essentials, Second Edition provides a succinct, in-depth tour of all the new features and functions in IPv6. It guides you through everything you need to know to get started, including how to configure IPv6 on hosts and routers and which applications currently support IPv6. The new IPv6 protocols offers extended address space, scalability, improved support for security, real-time traffic support, and auto-configuration so that even a novice user can connect a machine to the Internet. Aimed at system and network administrators, engineers, network designers, and IT managers, this book will help you understand, plan for, design, and integrate IPv6 into your current IPv4 infrastructure. Beginning with a short history of IPv6, author Silvia Hagen provides an overview of new functionality and discusses why we need IPv6. Hagen also shares exhaustive discussions of the new IPv6 header format and Extension Headers, IPv6 address and ICMPv6 message format, Security, QoS, Mobility and, last but not least, offers a Quick Start Guide for different operating systems. IPv6 Essentials, Second Edition also covers: In-depth technical guide to IPv6 Mechanisms and Case Studies that show how to integrate IPv6 into your network without interruption of IPv4 services Routing protocols and upper layer

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protocols Security in IPv6: concepts and requirements. Includes the IPSEC framework and security elements available for authentication and encryption Quality of Service: covers the elements available for QoS in IPv6 and how they can be implemented Detailed discussion of DHCPv6 and Mobile IPv6 Discussion of migration cost and business case Getting started on different operating systems: Sun Solaris, Linux, BSD, Windows XP, and Cisco routers Whether you're ready to start implementing IPv6 today or are planning your strategy for the future, IPv6 Essentials, Second Edition will provide the solid foundation you need to get started. "Silvia's look at IPv6 is always refreshing as she translates complex technology features into business drivers and genuine end-user benefits to enable building new business concepts based on end to end models." Latif Ladid, President IPv6 Forum, Chair EU IPv6 Task Force

Develop a solid understanding of the important command-line tools and utilities in Linux

**Key Features** Delve into the fundamentals of Linux Explore and work with virtualization, command lines, and Bash shell scripts Use special file permission flags such as `setuid` and `setgid`

**Book Description** Linux is a Unix-like operating system assembled under the model of free and open source software development and distribution. Fundamentals of Linux will help you learn all the essentials of the Linux command line required to get you started. The book will start by teaching you how to work with virtualization software and install CentOS 7 Linux as a VM. Then, you will get to grips with the workings of various command line operations, such as cursor movement, commands, options, and arguments. As you make your way through the chapters, the book will not only focus on the most essential Linux commands but also give an introduction to Bash shell

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scripting. Finally, you will explore advanced topics, such as networking and troubleshooting your system, and you will get familiar with the advanced file permissions: ACL, setuid, and setgid. Fundamentals of Linux includes real-world tasks, use cases, and problems that, as a system administrator, you might encounter in your day-to-day activities. What you will learn Explore basic and advanced command-line concepts Install Linux, work with VirtualBox, and install CentOS 7 in VirtualBox Work with the command line efficiently and learn how to navigate through the Linux filesystem Create file and user group permissions and edit files Use Sticky bit to secure your Linux filesystem Define and remove ACL from Linux files Who this book is for Fundamentals of Linux is for individuals looking to work as a Linux system administrator.

Get more done faster at the Linux command line! This best-selling Linux Phrasebook has been thoroughly updated in the second edition to reflect the newest distributions, incorporate feedback from hundreds of active Linux users, and cover today's newest tools and techniques -- including an entirely new chapter on text file manipulation. Linux Phrasebook, Second Edition offers a concise, handy reference to the Linux commands that, like a language phrasebook, can be used on the spot on moment's notice. Don't waste a minute on non-essentials: this straight-to-the-point reference delivers specific information and tested commands designed to work with any modern Linux distribution. Portable enough to take anywhere, it starts with a quick introduction to essential

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command line concepts, and then delivers all the modern Linux command examples, variations, and parameters you need to: View, manipulate, archive, and compress files Control file ownership and permissions Find anything on your systems Efficiently use the Linux shell Monitor system resources Install software Test, fix, and work with networks Linux Phrasebook, Second Edition is the perfect quick command line reference for millions of Linux users and administrators at all levels of experience: people who want to get reliable information they can use right now -- with no distractions and no diversions!

Revised for the 2015 update to the CompTIA Linux+/LPIC-1 objectives, this value-packed exam guide covers the leading vendor-neutral credential for Linux and comes with a virtual machine configured for hands-on exercises, video training, and hundreds of practice exam questions. Get complete coverage of all the objectives included on CompTIA Linux+ exams LX0-103 and LX0-104 and LPIC-1 exams 101-400 and 102-400 from this up-to-date resource. Written by a Linux expert and technology trainer, the book provides learning objectives at the beginning of each chapter, exam tips, practice exam questions, and in-depth answer explanations. Designed to help you pass these challenging exams, this definitive volume also serves as an essential on-the-job reference. Covers all exam topics, including how to: Work with the Linux shell Use the vi text editor Manage Linux files and directories Install Linux and manage the boot process Configure the graphical environment Manage software and hardware Manage

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users, groups, file systems, and processes Administer ownership, permissions, and quotas Write shell scripts Manage network settings and services Secure Linux and use encryption Electronic content includes: 200+ practice exam questions Virtual machine with custom configurations for select chapter exercises 50+ video clips Save 10% on CompTIA exam vouchers for any CompTIA certification! See inside the book for details. Become an efficient data science practitioner by understanding Python's key concepts About This Book- Quickly get familiar with data science using Python 3.5- Save time (and effort) with all the essential tools explained- Create effective data science projects and avoid common pitfalls with the help of examples and hints dictated by experience Who This Book Is For If you are an aspiring data scientist and you have at least a working knowledge of data analysis and Python, this book will get you started in data science. Data analysts with experience of R or MATLAB will also find the book to be a comprehensive reference to enhance their data manipulation and machine learning skills. What You Will Learn- Set up your data science toolbox using a Python scientific environment on Windows, Mac, and Linux- Get data ready for your data science project- Manipulate, fix, and explore data in order to solve data science problems- Set up an experimental pipeline to test your data science hypotheses- Choose the most effective and scalable learning algorithm for your data science tasks- Optimize your machine learning models to get the best performance- Explore and cluster graphs, taking advantage of interconnections and links in your data In Detail Fully

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expanded and upgraded, the second edition of Python Data Science Essentials takes you through all you need to know to succeed in data science using Python. Get modern insight into the core of Python data, including the latest versions of Jupyter notebooks, NumPy, pandas and scikit-learn. Look beyond the fundamentals with beautiful data visualizations with Seaborn and ggplot, web development with Bottle, and even the new frontiers of deep learning with Theano and TensorFlow. Dive into building your essential Python 3.5 data science toolbox, using a single-source approach that will allow to to work with Python 2.7 as well. Get to grips fast with data munging and preprocessing, and all the techniques you need to load, analyse, and process your data. Finally, get a complete overview of principal machine learning algorithms, graph analysis techniques, and all the visualization and deployment instruments that make it easier to present your results to an audience of both data science experts and business users. Style and approach The book is structured as a data science project. You will always benefit from clear code and simplified examples to help you understand the underlying mechanics and real-world datasets.

If you want to discover one of the latest tools designed to produce stunning Big Data insights, this book features everything you need to get to grips with your data. Whether you are a data architect, developer, or a business strategist, HDInsight adds value in everything from development, administration, and reporting.

A step-by-step guide that spices up your web pages and designs them in the way you

want using the most widely used JavaScript library, jQuery. The beginner-friendly and easy-to-understand approach of the book will help get to grips with jQuery in no time. If you know the fundamentals of HTML and CSS, and want to extend your knowledge by learning to use JavaScript, then this is just the book for you. jQuery makes JavaScript straightforward and approachable – you'll be surprised at how easy it can be to add animations and special effects to your beautifully designed pages.

Pro Bash Programming teaches you how to effectively utilize the Bash shell in your programming. The Bash shell is a complete programming language, not merely a glue to combine external Linux commands. By taking full advantage of Shell internals, Shell programs can perform as snappily as utilities written in C or other compiled languages. And you will see how, without assuming Unix lore, you can write professional Bash 4.3 programs through standard programming techniques. This second edition has updated for Bash 4.3, and many scripts have been rewritten to make them more idiomatically Bash, taking better advantage of features specific to Bash. It is easy to read, understand, and will teach you how to get to grips with Bash programming without drowning you in pages and pages of syntax. Using this book you will be able to use the shell efficiently, make scripts run faster using expansion and external commands, and understand how to overcome many common mistakes that cause scripts to fail. This book is perfect for all beginning Linux and Unix system administrators who want to be in full control of their systems, and really get to grips with Bash programming.

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Break through the practice of writing tedious code with shell scripts

**Key Features**

- Learn to impeccably build shell scripts and develop advanced applications
- Create smart solutions by writing and debugging scripts
- A step-by-step tutorial to automate routine tasks by developing scripts

**Book Description**

Linux is the most powerful and universally adopted OS. Shell is a program that gives the user direct interaction with the operating system. Scripts are collections of commands that are stored in a file. The shell reads this file and acts on commands as if they were typed on the keyboard. Learning Linux Shell Scripting covers Bash, GNU Bourne Again Shell, preparing you to work in the exciting world of Linux shell scripting. CentOS is a popular rpm-based stable and secured Linux distribution. Therefore, we have used CentOS distribution instead of Ubuntu distribution. Linux Shell Scripting is independent of Linux distributions, but we have covered both types of distros. We start with an introduction to the Shell environment and basic commands used. Next, we explore process management in Linux OS, real-world essentials such as debugging and perform Shell arithmetic fluently. You'll then take a step ahead and learn new and advanced topics in Shell scripting, such as decision making, starting up a system, and customizing a Linux environment. You will also learn about grep, stream editor, and AWK, which are very powerful text filters and editors. Finally, you'll get to grips with taking backup, using other language scripts in Shell Scripts as well as automating database administration tasks for MySQL and Oracle. By the end of this book, you will be able to confidently use

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your own shell scripts in the real world. What you will learn Familiarize yourself with the various text filtering tools available in Linux Understand expressions and variables and how to use them practically Automate decision-making and save a lot of time and effort of revisiting code Get to grips with advanced functionality such as using traps, dialogs to develop screens & Database administration such as MySQL or Oracle Start up a system and customize a Linux system Taking backup of local or remote data or important files. Use existing other language scripts such as Python, Perl & Ruby in Shell Scripts Who this book is for Learning Linux Shell Scripting is ideal for those who are proficient at working with Linux and want to learn about shell scripting to improve their efficiency and practical skills.

A fast-paced and practical guide to demystifying big data and transforming it into operational intelligence About This Book Want to get started with Splunk to analyze and visualize machine data? Open this book and step into the world of Splunk. Leverage the exceptional analysis and visualization capabilities to make informed decisions for your business This easy-to-follow, practical book can be used by anyone, even if you have never managed any data before Who This Book Is For This book will be perfect for you if you are a Software engineer or developer or System administrators or Business analyst who seek to correlate machine data with business metrics and provide intuitive real-time and statistical visualizations. Some knowledge or experience of previous versions of Splunk will be helpful but not essential. What You Will Learn

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Install and configure Splunk Gather data from different sources, isolate them by indexes, classify them into source types, and tag them with the essential fields Be comfortable with the Search Processing Language and get to know the best practices in writing search queries Create stunning and powerful dashboards Be proactive by implementing alerts and scheduled reports Use the Splunk SDK and integrate Splunk data into other applications Implement the best practices in using Splunk. In Detail Splunk is a search, analysis, and reporting platform for machine data, which has a high adoption on the market. More and more organizations want to adopt Splunk to use their data to make informed decisions. This book is for anyone who wants to manage data with Splunk. You'll start with very basics of Splunk— installing Splunk—and then move on to searching machine data with Splunk. You will gather data from different sources, isolate them by indexes, classify them into source types, and tag them with the essential fields. After this, you will learn to create various reports, XML forms, and alerts. You will then continue using the Pivot Model to transform the data models into visualization. You will also explore visualization with D3 in Splunk. Finally you'll be provided with some real-world best practices in using Splunk. Style and approach This fast-paced, example-rich guide will help you analyze and visualize machine data with Splunk through simple, practical instructions.

Thought-provoking and accessible in approach, this updated and expanded second edition of the Essentials of Linux provides a user-friendly introduction to the subject,

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Taking a clear structural framework, it guides the reader through the subject's core elements. A flowing writing style combines with the use of illustrations and diagrams throughout the text to ensure the reader understands even the most complex of concepts. This succinct and enlightening overview is a required reading for advanced graduate-level students. We hope you find this book useful in shaping your future career. Feel free to send us your enquiries related to our publications to [info@smpress.co.uk](mailto:info@smpress.co.uk) Science & Management Press of London

Learn virtualization skills by building your own virtual machine Virtualization Essentials, Second Edition provides new and aspiring IT professionals with immersive training in working with virtualization environments. Clear, straightforward discussion simplifies complex concepts, and the hands-on tutorial approach helps you quickly get up to speed on the fundamentals. You'll begin by learning what virtualization is and how it works within the computing environment, then you'll dive right into building your own virtual machine. You'll learn how to set up the CPU, memory, storage, networking, and more as you master the skills that put you in-demand on the job market. Each chapter focuses on a specific goal, and concludes with review questions that test your understanding as well as suggested exercises that help you reinforce what you've learned. As more and more companies are leveraging virtualization, it's imperative that IT professionals have the skills and knowledge to interface with virtualization-centric infrastructures. This book takes a learning-by-doing approach to give you hands-on

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training and a core understanding of virtualization. Understand how virtualization works  
Create a virtual machine by scratch and migration Configure and manage basic  
components and supporting devices Develop the necessary skill set to work in today's  
virtual world Virtualization was initially used to build test labs, but its use has expanded  
to become best practice for a tremendous variety of IT solutions including high  
availability, business continuity, dynamic IT, and more. Cloud computing and DevOps  
rely on virtualization technologies, and the exponential spread of these and similar  
applications make virtualization proficiency a major value-add for any IT professional.  
Virtualization Essentials, Second Edition provides accessible, user-friendly, informative  
virtualization training for the forward-looking pro.

Splunk (SPL) Splunk David Carasso Splunk Splunk Splunk Splunk 1 Splunk 1 Splunk 2  
Splunk 3 Splunk 4 5 2 6 7 8

Is Windows Subsystem for Linux dependent on the successful delivery of a current  
project? Meeting the challenge: are missed Windows Subsystem for Linux opportunities  
costing us money? What are the top 3 things at the forefront of our Windows  
Subsystem for Linux agendas for the next 3 years? Are accountability and ownership  
for Windows Subsystem for Linux clearly defined? Who are the Windows Subsystem  
for Linux improvement team members, including Management Leads and Coaches?  
This exclusive Windows Subsystem for Linux self-assessment will make you the  
principal Windows Subsystem for Linux domain adviser by revealing just what you need

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to know to be fluent and ready for any Windows Subsystem for Linux challenge. How do I reduce the effort in the Windows Subsystem for Linux work to be done to get problems solved? How can I ensure that plans of action include every Windows Subsystem for Linux task and that every Windows Subsystem for Linux outcome is in place? How will I save time investigating strategic and tactical options and ensuring Windows Subsystem for Linux costs are low? How can I deliver tailored Windows Subsystem for Linux advice instantly with structured going-forward plans? There's no better guide through these mind-expanding questions than acclaimed best-selling author Gerard Blokdyk. Blokdyk ensures all Windows Subsystem for Linux essentials are covered, from every angle: the Windows Subsystem for Linux self-assessment shows succinctly and clearly that what needs to be clarified to organize the required activities and processes so that Windows Subsystem for Linux outcomes are achieved. Contains extensive criteria grounded in past and current successful projects and activities by experienced Windows Subsystem for Linux practitioners. Their mastery, combined with the easy elegance of the self-assessment, provides its superior value to you in knowing how to ensure the outcome of any efforts in Windows Subsystem for Linux are maximized with professional results. Your purchase includes access details to the Windows Subsystem for Linux self-assessment dashboard download which gives you your dynamically prioritized projects-ready tool and shows you exactly what to do next. Your exclusive instant access details can be found in your book.

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A unique, full-color introduction to Linux fundamentals Serving as a low-cost, secure alternative to expensive operating systems, Linux is a UNIX-based, open source operating system. Full-color and concise, this beginner's guide takes a learning-by-doing approach to understanding the essentials of Linux. Each chapter begins by clearly identifying what you will learn in the chapter, followed by a straightforward discussion of concepts that leads you right into hands-on tutorials. Chapters conclude with additional exercises and review questions, allowing you to reinforce and measure your understanding. Offers a hands-on approach to acquiring a foundation of Linux skills, aiming to ensure Linux beginners gain a solid understanding Uses the leading Linux distribution Fedora to demonstrate tutorials and examples Addresses Linux installation, desktop configuration, management of files and filesystems, remote administration, security, and more This book is essential reading for anyone entering the world of Linux!

Is the impact that New Linux has shown? How do you select, collect, align, and integrate New Linux data and information for tracking daily operations and overall organizational performance, including progress relative to strategic objectives and action plans? How do you make it meaningful in connecting New Linux with what users do day-to-day? What is the scope of the New Linux effort? Will New Linux have an impact on current business continuity, disaster recovery processes and/or infrastructure? This best-selling New Linux self-assessment will make you the principal

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New Linux domain authority by revealing just what you need to know to be fluent and ready for any New Linux challenge. How do I reduce the effort in the New Linux work to be done to get problems solved? How can I ensure that plans of action include every New Linux task and that every New Linux outcome is in place? How will I save time investigating strategic and tactical options and ensuring New Linux costs are low? How can I deliver tailored New Linux advice instantly with structured going-forward plans? There's no better guide through these mind-expanding questions than acclaimed best-selling author Gerard Blokdyk. Blokdyk ensures all New Linux essentials are covered, from every angle: the New Linux self-assessment shows succinctly and clearly that what needs to be clarified to organize the required activities and processes so that New Linux outcomes are achieved. Contains extensive criteria grounded in past and current successful projects and activities by experienced New Linux practitioners. Their mastery, combined with the easy elegance of the self-assessment, provides its superior value to you in knowing how to ensure the outcome of any efforts in New Linux are maximized with professional results. Your purchase includes access details to the New Linux self-assessment dashboard download which gives you your dynamically prioritized projects-ready tool and shows you exactly what to do next. Your exclusive instant access details can be found in your book. You will receive the following contents with New and Updated specific criteria: - The latest quick edition of the book in PDF - The latest complete edition of the book in PDF, which criteria correspond to the criteria

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If you use CSS for web development tasks and want to learn how to create maintainable and reusable code, this is the book for you. Basic knowledge of web development would be helpful. The Best Test Prep for the CompTIA Linux+ Powered By LPI Exams One of Sybex's most popular certification Study Guides, CompTIA Linux+ Study Guide, Second Edition thoroughly prepares candidates for the CompTIA Linux+ Powered by LPI exams (LX0-101 and LX0-102). In addition to full coverage of all exam objectives for both exams, chapter review questions, and hands-on exercises, this CompTIA Authorized courseware also includes access to a great set of Linux-, Mac-, and Windows-compatible online test-prep tools. Author Roderick W. Smith, CompTIA Linux+, LPIC-1, LPIC-2, is a Linux networking expert who gives candidates the authoritative instruction and review they need. Provides full coverage of all exam objectives for the CompTIA Linux+ Powered by LPI exams ((LX0-101 and LX0-102) Includes challenging review questions, hands-on exercises, and real-world scenarios that put the information in the context of real job roles Provides access to a Linux-, Mac-, and Windows-compatible custom

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Learn Linux, and take your career to the next level! Linux Essentials, 2nd Edition provides a solid foundation of knowledge for anyone considering a career in information technology, for anyone new to the Linux operating system, and for anyone who is preparing to sit for the Linux Essentials Exam. Through this engaging resource, you can access key information in a learning-by-doing style. Hands-on tutorials and end-of-chapter exercises and review questions lead you in both learning and applying new information—information that will help you achieve your goals! With the experience provided in this compelling reference, you can sit down for the Linux Essentials Exam with confidence. An open source operating system, Linux is a UNIX-based platform that is freely updated by developers. The nature of its development means that Linux is a low-cost and secure alternative to other operating systems, and is used in many different IT environments. Passing the Linux Essentials Exam prepares you to apply your knowledge regarding this operating system within the workforce. Access lessons that are organized by task, allowing you to quickly identify the topics you are looking for and navigate the comprehensive information presented by the book Discover the basics of the Linux operating system, including distributions, types of open source applications, freeware, licensing, operations, navigation, and more Explore command functions, including navigating the command line, turning commands into scripts, and more Identify and create user types,

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users, and groups Linux Essentials, 2nd Edition is a critical resource for anyone starting a career in IT or anyone new to the Linux operating system.

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Complete coverage of the newest exam release from the Linux Professional Institute, and the first step toward LPIC-1 and CompTIA Linux+ Linux Essentials All-in-One Exam Guide covers this "first-of-its-kind" program intended for the academic sector, aspiring IT professionals, and anyone new to the world of Linux and open source technology. This comprehensive, classroom-based reference offers 100% coverage of all exam objectives for the Linux Essentials exam. The book includes expert discussion sidebars to convey in-depth information. Tip, Caution, and Note icons highlight key topics; end-of-chapter quizzes test retention and exam readiness; and Exam Tips guide you through tough technical topics that may be tricky come exam day. The All-in-One also includes hands-on examples and exercises that reinforce practical learning for real-world applicability. Electronic content includes a practice exam (Windows based).

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Untangle the complexity of OpenStack clouds through this practical tutorial  
About This Book\*Navigate through the complex jungle of components in OpenStack using practical instructions\*This book helps administrators, cloud engineers, and even developers to

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consolidate and control pools of compute, networking, and storage resources\*Learn to use the centralized dashboard and administration panel to monitor large-scale deploymentsWho This Book Is ForThis book is perfect for administrators, cloud engineers, and operators who want to get started with OpenStack, solve basic problems encountered during deployment, and get up to speed with the latest release of OpenStack. Familiarity with the Linux command line and experience with Linux system administration is expected.What You Will Learn\*Brush up on the latest release, and how it affects the various components\*Install OpenStack using the Packstack and RDO Manager installation tool\*Learn to convert a computer node that supports Docker containers\*Implement Ceph Block Device images with OpenStack\*Create and allocate virtual networks, routers and IP addresses to OpenStack Tenants.\*Configuring and Launching a Docker container.In DetailOpenStack is a widely popular platform for cloud computing. Applications that are built for this platform are resilient to failure and convenient to scale. This book, an update to our extremely popular OpenStack Essentials (published in May 2015) will help you master not only the essential bits, but will also examine the new features of the latest OpenStack release - Mitaka; showcasing how to put them to work straight away.This book begins with the installation and demonstration of the architecture. This books will tech you the core 8 topics of OpenStack. They are Keystone for Identity Management, Glance for Image management, Neutron for network management, Nova for instance management, Cinder for Block storage, Swift for Object storage, Ceilometer for Telemetry and Heat for Orchestration. Further more you will learn about launching and configuring Docker containers and also about scaling them horizontally. You will also learn about monitoring nd Troubleshooting OpenStack. Does the Linux kernel task fit the client's priorities? Is Linux kernel linked to key business goals

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and objectives? How do we go about Securing Linux kernel? How do we Improve Linux kernel service perception, and satisfaction? Is a fully trained team formed, supported, and committed to work on the Linux kernel improvements? This astounding Linux kernel self-assessment will make you the dependable Linux kernel domain master by revealing just what you need to know to be fluent and ready for any Linux kernel challenge. How do I reduce the effort in the Linux kernel work to be done to get problems solved? How can I ensure that plans of action include every Linux kernel task and that every Linux kernel outcome is in place? How will I save time investigating strategic and tactical options and ensuring Linux kernel costs are low? How can I deliver tailored Linux kernel advice instantly with structured going-forward plans? There's no better guide through these mind-expanding questions than acclaimed best-selling author Gerard Blokdyk. Blokdyk ensures all Linux kernel essentials are covered, from every angle: the Linux kernel self-assessment shows succinctly and clearly that what needs to be clarified to organize the required activities and processes so that Linux kernel outcomes are achieved. Contains extensive criteria grounded in past and current successful projects and activities by experienced Linux kernel practitioners. Their mastery, combined with the easy elegance of the self-assessment, provides its superior value to you in knowing how to ensure the outcome of any efforts in Linux kernel are maximized with professional results. Your purchase includes access details to the Linux kernel self-assessment dashboard download which gives you your dynamically prioritized projects-ready tool and shows you exactly what to do next. Your exclusive instant access details can be found in your book.

Linux is a Unix-like and mostly POSIX-compliant computer operating system (OS) assembled under the model of free and open-source software development and distribution. The defining

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component of Linux is the Linux kernel, an operating system kernel first released on September 17, 1991 by Linus Torvalds. The Free Software Foundation uses the name GNU/Linux to describe the operating system, which has led to some controversy. Linux was originally developed as a free operating system for personal computers based on the Intel x86 architecture, but has since been ported to more platforms than any other operating system. Because of the dominance of Android on smartphones, Linux has the largest installed base of all general-purpose operating systems. Linux is also the leading operating system on servers and other big iron systems such as mainframe computers and virtually all fastest supercomputers, but is used on only around 2.3% of desktop computers when not including Chrome OS, which has about 5% of the overall and nearly 20% of the sub-\$300 notebook sales. Linux also runs on embedded systems, which are devices whose operating system is typically built into the firmware and is highly tailored to the system; this includes smartphones and tablet computers running Android and other Linux derivatives, TiVo and similar DVR devices, network routers, facility automation controls, televisions, video game consoles and smartwatches. This updated and expanded second edition of Book provides a user-friendly introduction to the subject, Taking a clear structural framework, it guides the reader through the subject's core elements. A flowing writing style combines with the use of illustrations and diagrams throughout the text to ensure the reader understands even the most complex of concepts. This succinct and enlightening overview is a required reading for all those interested in the subject . We hope you find this book useful in shaping your future career & Business. This soup-to-nuts collection of recipes covers everything you need to know to perform your job as a Linux network administrator, whether you're new to the job or have years of experience.

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With Linux Networking Cookbook, you'll dive straight into the gnarly hands-on work of building and maintaining a computer network. Running a network doesn't mean you have all the answers. Networking is a complex subject with reams of reference material that's difficult to keep straight, much less remember. If you want a book that lays out the steps for specific tasks, that clearly explains the commands and configurations, and does not tax your patience with endless ramblings and meanderings into theory and obscure RFCs, this is the book for you. You will find recipes for: Building a gateway, firewall, and wireless access point on a Linux network Building a VoIP server with Asterisk Secure remote administration with SSH Building secure VPNs with OpenVPN, and a Linux PPTP VPN server Single sign-on with Samba for mixed Linux/Windows LANs Centralized network directory with OpenLDAP Network monitoring with Nagios or MRTG Getting acquainted with IPv6 Setting up hands-free networks installations of new systems Linux system administration via serial console And a lot more. Each recipe includes a clear, hands-on solution with tested code, plus a discussion on why it works. When you need to solve a network problem without delay, and don't have the time or patience to comb through reference books or the Web for answers, Linux Networking Cookbook gives you exactly what you need.

This book will teach you what you need to know to start using GitHub effectively for collaborating and working on your software projects. Key Features Effectively use GitHub by learning its key features to leverage the power of Git and make collaboration on code easy to work with. Be more productive on the development workflow of your projects using the valuable toolset that GitHub provides. Explore the world of GitHub by following simple, step-by-step, real-world scenarios accompanied by helpful, explanatory screenshots. Book Description



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to help you learn and work with Git's internals Who This Book Is For If you are a software developer with little or no experience of versioning systems, or you are familiar with other centralized versioning systems, then this book is for you. If you have experience in server and system management and need to broaden your use of Git from a DevOps perspective, this book contains everything you need. What You Will Learn Master Git fundamentals Be able to "visualize," even with the help of a valid GUI tool Write principal commands in a shell Figure out the right strategy to run change your daily work with few or no annoyances Explore the tools used to migrate to Git from the Subversion versioning system without losing your development history Plan new projects and repositories with ease, using online services, or local network resources In Detail Since its inception, Git has attracted skilled developers due to its robust, powerful, and reliable features. Its incredibly fast branching ability transformed a piece of code from a niche tool for Linux Kernel developers into a mainstream distributed versioning system. Like most powerful tools, Git can be hard to approach since it has a lot of commands, subcommands, and options that easily confuse newcomers. The 2nd edition of this very successful book will help you overcome this fear and become adept in all the basic tasks in Git. Building upon the success of the first book, we start with a brief step-by-step installation guide; after this, you'll delve into the essentials of Git. For those of you who have bought the first edition, this time we go into internals in far greater depth, talking less about theory and using much more practical examples. The book serves as a primer for topics to follow, such as branching and merging, creating and managing a GitHub personal repository, and fork and pull requests. You'll then learn the art of cherry-picking, taking only the commits you want, followed by Git blame. Finally, we'll see how to interoperate with a Subversion server, covering the

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concepts and commands needed to convert an SVN repository into a Git repository. To conclude, this is a collection of resources, links, and appendices to satisfy even the most curious. Style and approach This short guide will help you understand the concepts and fundamentals of GIT in a step-by-step manner.

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