

## Git Best Practices Guide Pidoux Eric

“... a genuinely useful guide to the more technical side of phone shooting, including editing with popular apps like Snapseed. Jo Bradford makes the most of the creative possibilities of modern smartphone cameras, and her tips on improving exposure and ensuring decent prints are really useful.” Awarded 5 stars by Amateur Photographer Maximize your potential to get the shots you want with this guide to photography for both Apple and Android phones. There’s a saying that the best camera for the job is the one you have with you when an opportunity arises. Thanks to the boom in camera-phone technology, today we’re lucky enough to have a camera to hand to capture all those incredible moments. But are you making the most of that powerful tool in your pocket? Do the photos you have taken tend to be blurry, or look nothing like what you’re seeing? If you want to shoot incredible images with your phone, buy Smart Phone, Smart Photography. Covering simple techniques that will allow you to get the image that you see every single time, you will soon be telling your camera what to do with confidence. Start with The Big Picture and get to know your camera phone and the rules behind taking the perfect shot. The next chapter, Taking Great Pictures, explains the key disciplines of photography – portrait, abstraction, macro, still life and plenty more. Finally, the Post-production chapter demonstrates how to use apps to edit and enhance your images and create incredible prints for display.

If you are a software developer with little or no experience of versioning systems, or are familiar with other centralized versioning systems, then this book is for you. If you have some experience working with command lines or using Linux admin or just using Unix and want to know more about Git, then this book is ideal for you.

Git Best Practices GuidePackt Publishing Ltd

The CompTIA Linux+/LPIC-1 Training and Exam Preparation Guide, First Edition is a comprehensive resource designed and written with one fundamental goal in mind: teach Linux in an easy and practical manner while preparing for the Linux+/LPIC-1 exams. This book provides an in-depth coverage of all official exam objectives. This book is organized in two parts: Part One covers LX0-103/101-400 exam objectives and Part Two covers LX0-104/102-400 exam objectives. The book includes hands-on examples, step-by-step exercises, chapter-end review of concepts, files, and commands learned, and 790 challenging practice questions. This book uses "learn-by-doing" methodology. It begins with guidance on how to download a virtualization software and two Linux distribution versions and then provides instructions on how to create VMs and install Linux in them to set up a lab environment for hands-on learning. Throughout the book, appropriate command prompts are employed to identify the lab system and user to run a command. Each command and task presented in the book was actually performed and tested on lab systems. Followed by the lab environment setup in Part One, the book presents the essentials of Linux incl. interaction with Linux, basic commands, file management (permissions, ownership, linking, searching, special permissions, editing), filter programs, regex, shell features, and process handling. Subsequent topics focus on system administration incl. shared libraries, Debian and RPM package management, system boot and initialization, hardware management, kernel modules, storage partitioning, file system creation and repairs, quota handling, and swap space administration. This brings Part One to an end and you should be able to take the quiz in Appendix A to test your readiness for the LX0-103/101-400 exam. Part Two covers all the objectives for the LX0-104/102-400 exam. It covers shell scripts with a presentation and line-by-line analysis of several scripts. Building a simple SQL database and performing queries comes next. A detailed comprehension of local authentication files, user creation, password aging, and shell startup files follows. The book covers networking concepts, reference models, and terms that accompany exercises on interface configuration, hostname change, and route management. A discussion of network testing and debugging tools is furnished and their usage is demonstrated, followed by topics on internationalization, localization, time synchronization, name resolution, X Window, display/desktop managers, accessibility options, printer and print queue administration, task scheduling, system logging, system and service access controls, emailing and email aliasing, searching for special files, and so on. This brings Part Two to an end and you should be able to take the quiz in Appendix C to test your readiness for the LX0-104/102-400 exam. Highlights: \* 100% coverage of ALL official exam objectives (version 4.0) \* Enumerated and descriptive knowledge areas (under exam objectives) to assist in identifying and locating them \* A summarized and convenient view showing exam objectives, chapters they are discussed in, associated weights, the number of questions to expect on the real exam, and other useful information \* Separate section on each exam \* 15 chapters in total (8 for LX0-103/101-400 and 7 for LX0-104/102-400) \* Detailed guidance on building lab environment \* 49 tested, hands-on exercises with explanation \* Numerous tested, practical examples for clarity and understanding \* Chapter-end one-sentence review of key topics \* 790 single-response, multiple-response, and fill-in-the-blank practice questions/answers to test your knowledge of the material and exam readiness \* Equally good for self-study and in-class training

Hepatic Encephalopathy and Nitrogen Metabolism is an interdisciplinary symposium bringing together basic science and clinical applications. It contains up-to-date research findings at the highest scientific level.

This comprehensive two-volume set brings together all aspects of the blues from performers and musical styles to record labels and cultural issues, including regional evolution and history. Organized in an accessible A-to-Z format, the Encyclopedia of the Blues is an essential reference resource for information on this unique American music genre. For a full list of entries, contributors, and more, visit the Encyclopedia of the Blues website.

Leverage the power of Git to smooth out the development cycle Professional Git takes a professional approach to learning this massively popular software development tool, and provides an up-to-date guide for new users. More than just a development manual, this book helps you get into the Git mindset—extensive discussion of corollaries to traditional systems as well as considerations unique to Git help you draw upon existing skills while looking out—and planning for—the differences. Connected labs and exercises are interspersed at key points to reinforce important concepts and deepen your understanding, and a focus on the practical goes beyond technical tutorials to help you integrate the Git model into your real-world workflow. Git greatly simplifies the software development cycle, enabling users to create, use, and switch between versions as easily as you switch between files. This book shows you how to harness that power and flexibility to streamline your development cycle. Understand the basic Git model and overall workflow Learn the Git versions of common source management concepts and commands Track changes, work with branches, and take advantage of Git’s full functionality Avoid trip-ups and missteps common to new users Git works with the most popular software development tools and is used by almost all of the major technology companies. More than 40 percent of software developers use it as their primary source control tool, and that number continues to grow; the ability to work effectively with Git is rapidly approaching must-have status, and Professional Git is the comprehensive guide you need to get up to speed quickly.

Annotation A guide to the popular version control system, this book walks Git users through the source control implications of how a team is structured, and how the software is delivered to clients. The book then covers not just how to use popular work flow strategies, such as GitFlow, but why, and under what circumstances, these strategies should be applied.

Nature endows us with a treasure chest of Green Gold full of amazing ‘redox-active’ substances which interfere with numerous biological processes in our own body, in animals, bacteria, fungi and plants.

Whilst such natural products are all around and also in us, we still do not fully understand how these compounds actually work. This book attempts to resolve some of the mysteries and riddles associated with

such products. Written by more than thirty international experts from academia and industry, it places a focus on modern developments in this field and considers such natural products from various angles, from their isolation and characterization all along to product development and commercialization. Throughout, the reader will be confronted with modern approaches which enable the efficient identification and isolation of new natural products, help to elucidate their mode(s) of action and permit practical uses in Medicine, Cosmetics, Agriculture, Industry and as functional foods.

Operating Systems Multiple Choice Questions and Answers (MCQs): Quizzes & Practice Tests with Answer Key PDF, Operating Systems Worksheets & Quick Study Guide covers exam review worksheets to solve problems with 550 solved MCQs. "Operating Systems MCQ" PDF with answers covers concepts, theory and analytical assessment tests. "Operating Systems Quiz" PDF book helps to practice test questions from exam prep notes. Computer science study guide provides 550 verbal, quantitative, and analytical reasoning solved past question papers MCQs. Operating Systems Multiple Choice Questions and Answers PDF download, a book covers solved quiz questions and answers on chapters: Computer system overview, concurrency deadlock and starvation, concurrency mutual exclusion and synchronization, introduction to operating systems, operating system overview, process description and control, system structures, threads, SMP and microkernels worksheets for college and university revision guide. "Operating systems Quiz Questions and Answers" PDF download with free sample test covers beginner's questions and mock tests with exam workbook answer key. Operating systems MCQs book, a quick study guide from textbooks and lecture notes provides exam practice tests. "Operating systems Worksheets" PDF book with answers covers problem solving in self-assessment workbook from computer science textbooks with past papers worksheets as: Worksheet 1: Computer System Overview MCQs Worksheet 2: Concurrency Deadlock and Starvation MCQs Worksheet 3: Concurrency Mutual Exclusion and Synchronization MCQs Worksheet 4: Introduction to Operating Systems MCQs Worksheet 5: Operating System Overview MCQs Worksheet 6: Process Description and Control MCQs Worksheet 7: System Structures MCQs Worksheet 8: Threads, SMP and Microkernels MCQs Practice Computer System Overview MCQ PDF with answers to solve MCQ test questions: Basic elements, cache design, cache principles, control and status registers, input output and communication techniques, instruction execution, interrupts, processor registers, and user visible registers. Practice Concurrency Deadlock and Starvation MCQ PDF with answers to solve MCQ test questions: Concurrency deadlock, starvation, deadlock avoidance, deadlock detection, deadlock detection algorithm, deadlock prevention, an integrated deadlock strategy, circular wait, consumable resources, dining philosophers problem, Linux process and thread management, resource allocation, and ownership. Practice Concurrency Mutual Exclusion and Synchronization MCQ PDF with answers to solve MCQ test questions: Mutual exclusion, principles of concurrency, addressing, concurrency deadlock and starvation, input output and internet management, message format, message passing, monitor with signal. Practice Introduction to Operating Systems MCQ PDF with answers to solve MCQ test questions: Operating system operations, operating system structure, computer architecture and organization, kernel level threads, process management, and what operating system do. Practice Operating System Overview MCQ PDF with answers to solve MCQ test questions: Evolution of operating systems, operating system objectives and functions, Linux operating system, development leading to modern operating system, major achievements in OS, Microsoft windows overview, traditional Unix system, and what is process test. Practice Process Description and Control MCQ PDF with answers to solve MCQ test questions: Process description, process control structure, process states, creation and termination of processes, five state process model, modes of execution, security issues, two state process model, and what is process test. Practice System Structures MCQ PDF with answers to solve MCQ test questions: Operating system services, system calls in operating system, types of system calls, and user operating system interface. Practice Threads, SMP and Microkernels MCQ PDF with answers to solve MCQ test questions: Threads, SMP and microkernels, thread states, user level threads, windows threads, SMP management, asynchronous processing, input output and internet management, inter-process communication, interrupts, multithreading, kernel level threads, Linux process and thread management, low level memory management, microkernel architecture, microkernel design, modular program execution, multiprocessor operating system design, process and thread object, process structure, resource allocation and ownership, symmetric multiprocessing, and symmetric multiprocessors SMP architecture.

Your one stop guide to making the most out of Bash programming About This Book From roots to leaves, learn how to program in Bash and automate daily tasks, pouring some spice in your scripts Daemonize a script and make a real service of it, ensuring it's available at any time to process user-fed data or commands This book provides functional examples that show you practical applications of commands Who This Book Is For If you're a power user or system administrator involved in writing Bash scripts to automate tasks, then this book is for you. This book is also ideal for advanced users who are engaged in complex daily tasks. What You Will Learn Understand Bash right from the basics and progress to an advanced level Customise your environment and automate system routine tasks Write structured scripts and create a command-line interface for your scripts Understand arrays, menus, and functions Securely execute remote commands using ssh Write Nagios plugins to automate your infrastructure checks Interact with web services, and a Slack notification script Find out how to execute subshells and take advantage of parallelism Explore inter-process communication and write your own daemon In Detail System administration is an everyday effort that involves a lot of tedious tasks, and devious pits. Knowing your environment is the key to unleashing the most powerful solution that will make your life easy as an administrator, and show you the path to new heights. Bash is your Swiss army knife to set up your working or home environment as you want, when you want. This book will enable you to customize your system step by step, making your own real, virtual, home out of it. The journey will take you swiftly through the basis of the shell programming in Bash to more interesting and challenging tasks. You will be introduced to one of the most famous open source monitoring systems—Nagios, and write complex programs with it in any languages. You'll see how to perform checks on your sites and applications. Moving on, you'll discover how to write your own daemons so you can create your services and take advantage of inter-process communication to let your scripts talk to each other. So, despite these being everyday tasks, you'll have a lot of fun on the way. By the end of the book, you will have gained advanced knowledge of Bash that will help you automate routine tasks and manage your systems. Style and approach This book presents step-by-step instructions and expert advice on working with Bash and writing scripts. Starting from the basics, this book serves as a reference manual where you can find handy solutions and advice to make your scripts flexible and powerful.

Need to learn how to wrap your head around Git, but don't need a lot of hand holding? Grab this book if you're new to Git, not to the world of programming. Git tasks displayed on two-page spreads provide all the context you need, without the extra fluff.

In this collection of essays, the author describes fundamental principles of human learning in the context of teaching music. Written in a conversational style, the individual essays outline the elements of intelligent, creative teaching. Duke effectively explains how teachers can meet the needs of individual students from a wide range of abilities by understanding more deeply how people learn. Teachers and interested parents alike will benefit from this informative book.

Based on case studies this book offers an insight in various European activities and practices in data management and their interaction with policies and programs. The latter form the background for the following case studies, provide the conceptual framework, at the same time giving an exhaustive understanding of the specific subjects. The case studies share common themes and give a concrete insight into vital issues such as web archiving, digitization of analog archives, researchers' motivations for sharing data, and how libraries, archives and researchers can collaborate in creating research tools and services.

Progress in Brain Research is the most acclaimed and accomplished series in neuroscience, firmly established as an extensive documentation of the advances in contemporary brain research. The volumes, some of which are derived from important international symposia, contain authoritative reviews and original articles by invited specialists. The rigorous editing of the volumes assures that they will appeal to all laboratory and clinical brain research workers in the various disciplines: neuroanatomy, neurophysiology, neuropharmacology, neuroendocrinology, neuropathology, basic neurology, biological psychiatry, and the behavioral sciences. This volume, *The Cerebellum and Memory Formation: Structure, Computation and Function*, covers topics including feedback control of cerebellar learning; cortico-cerebellar organization and skill acquisition; cerebellar plasticity and learning in the oculomotor system, and more. Leading authors review the state-of-the-art in their field of investigation, and provide their views and perspectives for future research. The volume reflects current thinking about the ways in which the cerebellum can engage in learning, and the contributors come from a variety of research fields. The chapters express perspectives from different levels of analysis that range from molecular and cellular mechanisms through to long-range systems that allow the cerebellum to communicate with other brain areas. If you are a developer and you want to completely master Git without heavy theory, this is the book for you. A reasonable knowledge level and basic understanding of Git concepts will get you started with this book.

*Android Security Cookbook* breaks down and enumerates the processes used to exploit and remediate Android app security vulnerabilities in the form of detailed recipes and walkthroughs. *Android Security Cookbook* is aimed at anyone who is curious about Android app security and wants to be able to take the necessary practical measures to protect themselves; this means that Android application developers, security researchers and analysts, penetration testers, and generally any CIO, CTO, or IT managers facing the impending onslaught of mobile devices in the business environment will benefit from reading this book.

Sybex's proven Study Guide format teaches Google Cloud Architect job skills and prepares you for this important new Cloud exam. The Google Cloud Certified Professional Cloud Architect Study Guide is the essential resource for anyone preparing for this highly sought-after, professional-level certification. Clear and accurate chapters cover 100% of exam objectives—helping you gain the knowledge and confidence to succeed on exam day. A pre-book assessment quiz helps you evaluate your skills, while chapter review questions emphasize critical points of learning. Detailed explanations of crucial topics include analyzing and defining technical and business processes, migration planning, and designing storage systems, networks, and compute resources. Written by Dan Sullivan—a well-known author and software architect specializing in analytics, machine learning, and cloud computing—this invaluable study guide includes access to the Sybex interactive online learning environment, which includes complete practice tests, electronic flash cards, a searchable glossary, and more. Providing services suitable for a wide range of applications, particularly in high-growth areas of analytics and machine learning, Google Cloud is rapidly gaining market share in the cloud computing world. Organizations are seeking certified IT professionals with the ability to deploy and operate infrastructure, services, and networks in the Google Cloud. Take your career to the next level by validating your skills and earning certification. Design and plan cloud solution architecture Manage and provision cloud infrastructure Ensure legal compliance and security standards Understand options for implementing hybrid clouds Develop solutions that meet reliability, business, and technical requirements The Google Cloud Certified Professional Cloud Architect Study Guide is a must-have for IT professionals preparing for certification to deploy and manage Google cloud services.

A series of practical recipes to simplify the Git learning experience and increase your productivity when using Git version control Key Features Explore practical recipes to use Git's most advanced features Learn how Git references its objects and how history is recorded Use `reflog` and `git fsck` to recover lost information Book Description Git is one of the most popular tools for versioning. *Git Version Control Cookbook* builds on the success of the previous edition and provides you with an up-to-date guide to solving problems related to versioning. You'll start by learning about the Git data model and how it stores files and looks at commits. By using simple commands, you'll learn how to navigate through the database. Once you have accustomed yourself to the basics, you'll explore techniques to configure Git with comprehensive examples and configuration targets. You'll gain insights into improving your understanding of branches and recovery from mistakes — right from committing to a wrong branch to recovering lost commits or files. You'll then move on to discovering the features that Git rebase has to offer and use regular Git merge on other branches. You'll explore Git notes and learn how to utilize the update, list, and search commands. In addition to this, you'll learn how to extract metadata from repositories and automate your daily tasks using Git hooks. You'll then study in detail repository maintenance, patching, and offline sharing. By the end of the book, you'll have grasped various tips and tricks for everyday usage, while increasing your knowledge of Git providers, integrations, and clients. What you will learn Understand the Git data model and use commands to navigate the database Find out how you can recover lost commits or files Force a rebase on some branches and use regular Git to merge on the rest Master the techniques required to extract metadata from repositories Explore Git notes and learn about the various features that it offers See how to decode different subcommands Who this book is for The *Git Version Control Cookbook* is for you if you are a developer or Build Release manager looking for a full-fledged practical guide that will take your Git knowledge to the next level. Basic knowledge of GNU tools and shell or bash scripting is needed.

A practical, cookbook style with numerous chapters and recipes explaining the penetration testing. The cookbook-style recipes allow you to go directly to your topic of interest if you are an expert using this book as a reference, or to follow topics throughout a chapter to gain in-depth knowledge if you are a beginner. This book is ideal for anyone who wants to get up to speed with Kali Linux. It would also be an ideal book to use as a reference for seasoned penetration testers.

The quick start guide for an advanced enterprise PowerShell framework About This Book Introduces industry-proven techniques that improve script efficiency and reliability Example-rich guide based on real-world scenarios Facilitates building a script that can fully scan a Windows server and identify components Who This Book Is For This book is for IT professionals and Windows administrators who would like to gain intensive, hands-on knowledge and skills on PowerShell without spending hours and hours in learning. If you have been struggling to find the time to gain proficiency and confidence with PowerShell and everyday scripting tasks What You Will Learn Create an advanced PowerShell scripting template that provides repeatable code to jumpstart all of your scripting projects Learn how to securely encrypt and store usernames, passwords, and other sensitive data in PowerShell scripts and answer files Understand how to optimize the performance of scripts to help process large datasets quickly and avoid time-consuming mistakes Develop a script to scan for non-standard Windows Server configurations and identify service accounts used on Windows Servers Gather a large list of data from a Windows server without locally or remotely logging in interactively In Detail Enterprise PowerShell Scripting Bootcamp explains how to create your own repeatable PowerShell scripting framework. This framework contains script logging methodologies, answer file interactions, and string encryption and decryption strategies. This book focuses on evaluating individual components to identify the system's function, role, and unique characteristics. To do this, you will leverage built-in CMDlets and Windows Management Instrumentation (WMI) to explore Windows services, Windows processes, Windows features, scheduled tasks, and disk statistics. You will also create custom functions to perform a deep search for specific strings in files and evaluate installed software through executable properties. We will then discuss different scripting techniques to improve the efficiency of scripts. By leveraging several small changes to your code, you can increase the execution performance by over 130%. By the end of this book, you will be able to tie all of the concepts together in a PowerShell-based Windows server scanning script. This discovery script will be able to scan a Windows server to identify a multitude of components. Style and approach This

book is all about fast and intensive learning. This means, we don't waste time in helping readers get started. The new content is about leveraging highly-effective examples to build new things, help solving problems in newer and unseen ways, and providing an enterprise-ready platform to create PowerShell Scripts.

Are you looking for a new version control system? Perhaps what you're using now is too cumbersome, or you just want to try something new to manage a pet project. With Git by Ryan Hodson, you can get up and running with one of the fastest-spreading revision control systems out there. Complete with vivid diagrams, clear code samples, and a careful walk-through of primary features, this free e-book is your quick guide to how Git operates, what its advantages are, and how you can incorporate it into your own workflow. 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.

A basic guide to learn Design and Programming of operating system in depth DESCRIPTION An operating system is an essential component of computers, laptops, smartphones and any other devices that manages the computer hardware. This book is a complete textbook that includes theory, implementation, case studies, a lot of review questions, questions from GATE and some smart tips. Many examples and diagrams are given in the book to explain the concepts. It will help increase the readability and understand the concepts. The book is divided into 11 chapters. It describe the basics of an operating system, how it manages the computer hardware, Application Programming interface, compiling, linking, and loading. It talks about how communication takes place between two processes, the different methods of communication, the synchronization between two processes, and modern tools of synchronization. It covers deadlock and various methods to handle deadlock. It also describes the memory and virtual memory organization and management, file system organization and implementation, secondary storage structure, protection and security. KEY FEATURES Easy to read and understand Covers the topic in-depth Good explanation of concepts with relevant diagrams and examples Contains a lot of review questions to understand the concepts Clarification of concepts using case studies The book will help to achieve a high confidence level and thus ensure high performance of the reader WHAT WILL YOU LEARN The proposed book will be very simple to read, understand and provide sound knowledge of basic concepts. It is going to be a complete book that includes the implementation, case studies, a lot of review questions, questions from GATE and some smart tips. WHO THIS BOOK IS FOR BCA, BSc (IT/CS), MTech (IT/CSE), BTech (CSE/IT), MBA (IT), MCA, BBA (CAM), DOEACC, MSc (IT/CS/SE), MPhil, PGDIT, PGDBM. Table of Contents 1. Introduction and Structure of an Operating System 2. Operating System Services 3. Process Management 4. Inter Process Communication and Process Synchronization 5. Deadlock 6. Memory Organization and Management 7. Virtual Memory Organization 8. File System Organization and Implementation 9. Secondary Storage Structure 10. Protection and Security 11. Case Study

Learn the fundamentals of version control through step-by-step tutorials that will teach you the ins-and-outs of Git. This book is your complete guide to how Git and GitHub work in a professional team environment. Divided into three parts – Version Control, Project Management and Teamwork – this book reveals what waits for you in the real world and how to resolve the problems you may run into. Once past the basics of Git, you'll see how to manage a software project, and finally how to utilize Git and GitHub to work effectively as a team. You'll examine how to plan, follow and execute a project with GitHub, and then apply those concepts to real-world situations. Workaround the pitfalls that most programmers fall into when driving a project with Git by using proven tactics to avoid them. You will also be taught the easiest and quickest ways to resolve merge conflicts. A lot of modern books on Git don't go into depth about non-technical topics. Beginning Git and GitHub will help you cover all the bases right at the start of your career. What You'll Learn Review basic and advanced concepts of Git Apply Project Management skills using GitHub Solve conflicts or, ideally, avoid them altogether Use advanced concepts for a more boosted workflow Who This book Is For New developers, developers that have never worked in a team environment before, developers with basic knowledge of Git or GitHub, or anyone who works with text documents.

This book covers the topic of Windows PowerShell and will teach you all about how to use it and all of its possibilities. Essentially, the PowerShell is a command line interface that operates within the Windows system, with the purpose of task automation and configuration management. It is a fairly intuitive system, and as you will soon realize, it doesn't take too long to get the hang of! Inside, you will learn how the PowerShell operates, how the associated scripting language works, the different commands you will need to know, and what kind of things are possible when using the PowerShell. Even if you're totally new to programming and have never used a scripting environment, at the completion of this book you should have a solid understanding of Windows PowerShell, and be ready to get started! Here Is What You'll Learn About Inside... What Is Powershell Powershell Language Working With Commands Pipelines & Outputs Quotes & Strings Scalers The Drives & Providers The Operations Of Powershell Much, Much More!

Get up to speed on Git for tracking, branching, merging, and managing code revisions. Through a series of step-by-step tutorials, this practical guide takes you quickly from Git fundamentals to advanced techniques, and provides friendly yet rigorous advice for navigating the many functions of this open source version control system. This thoroughly revised edition also includes tips for manipulating trees, extended coverage of the reflog and stash, and a complete introduction to the GitHub repository. Git lets you manage code development in a virtually endless variety of ways, once you understand how to harness the system's flexibility. This book shows you how. Learn how to use Git for several real-world development scenarios Gain insight into Git's common-use cases, initial tasks, and basic functions Use the system for both centralized and distributed version control Learn how to manage merges, conflicts, patches, and diffs Apply advanced techniques such as rebasing, hooks, and ways to handle submodules Interact with Subversion (SVN) repositories—including SVN to Git conversions Navigate, use, and contribute to open source projects through GitHub

Learn how to run new and old Windows applications in Docker containers. About This Book Package traditional .NET Frameworks apps and new .NET Core apps as Docker images, and run them in containers for increased efficiency, portability, and security Design and implement distributed applications that run across connected containers, using enterprise-grade open source software from public Docker images Build a full Continuous Deployment pipeline for a .NET Framework application, and deploy it to a highly-available Docker swarm running in the cloud Who This Book Is For If you want to modernize an old monolithic application without rewriting it, smooth the deployment to production, or move to DevOps or the cloud, then Docker is the enabler for you. This book gives you a solid grounding in Docker so you can confidently approach all of these scenarios. What You Will Learn Comprehend key Docker concepts: images, containers, registries, and swarms Run Docker on Windows 10, Windows Server 2016, and in the

cloud Deploy and monitor distributed solutions across multiple Docker containers Run containers with high availability and fail-over with Docker Swarm Master security in-depth with the Docker platform, making your apps more secure Build a Continuous Deployment pipeline by running Jenkins in Docker Debug applications running in Docker containers using Visual Studio Plan the adoption of Docker in your own organization In Detail Docker is a platform for running server applications in lightweight units called containers. You can run Docker on Windows Server 2016 and Windows 10, and run your existing apps in containers to get significant improvements in efficiency, security, and portability. This book teaches you all you need to know about Docker on Windows, from 101 to deploying highly-available workloads in production. This book takes you on a Docker journey, starting with the key concepts and simple examples of how to run .NET Framework and .NET Core apps in Windows Docker containers. Then it moves on to more complex examples—using Docker to modernize the architecture and development of traditional ASP.NET and SQL Server apps. The examples show you how to break up monoliths into distributed apps and deploy them to a clustered environment in the cloud, using the exact same artifacts you use to run them locally. To help you move confidently to production, it then explains Docker security, and the management and support options. The book finishes with guidance on getting started with Docker in your own projects, together with some real-world case studies for Docker implementations, from small-scale on-premises apps to very large-scale apps running on Azure. Style and approach Using a step-by-step approach, this book shows you how to use Docker on Windows. It includes practical examples and real-world technical and business scenarios that will help you effectively implement Docker in your environment. There are over 50 examples of Dockerized applications, using C# .NET projects as the source and packaging them into Docker images. This pocket guide is the perfect on-the-job companion to Git, the distributed version control system. It provides a compact, readable introduction to Git for new users, as well as a reference to common commands and procedures for those of you with Git experience. Written for Git version 1.8.2, this handy task-oriented guide is organized around the basic version control functions you need, such as making commits, fixing mistakes, merging, and searching history. Examine the state of your project at earlier points in time Learn the basics of creating and making changes to a repository Create branches so many people can work on a project simultaneously Merge branches and reconcile the changes among them Clone an existing repository and share changes with push/pull commands Examine and change your repository's commit history Access remote repositories, using different network protocols Get recipes for accomplishing a variety of common tasks

If you are an architect, this book will help you make the correct decisions about which Azure building blocks to use. If you are a developer, this book will help you understand how to use them appropriately, and if you are a .NET developer, this book is a pure delight.

Master the skills and techniques that are required to design, deploy, and administer real Linux-based networks About This Book Master the art of using Linux and administering network services for enterprise environments Perform hands-on activities to reinforce expert-level knowledge Get full coverage of both the CentOS and Debian systems, including how networking concepts differ for each Who This Book Is For Mastering Linux Network Administration is recommended for those who already understand the basics of using Linux and networking, and would like to push those skills to a higher level through real-world Linux networking scenarios. Whether you intend to run a home office consisting of Linux nodes or a rollout of a Linux network within your organization, this book is a great fit for those that desire to learn how to manage networked systems with the power of Linux. What You Will Learn Install and configure the Debian and CentOS systems Set up and configure file servers Administer networked nodes remotely Discover how to monitor system performance for peak health Configure network services such as DNS and DHCP Host HTTP content via Apache Troubleshoot Linux networking issues In Detail Linux is everywhere. Whether you run a home office, a small business, or manage enterprise systems, Linux can empower your network to perform at its very best. Armed with the advanced tools and best practice guidance of this practical guide, you'll be able to mold Linux networks to your will, empowering your systems and their users to take advantage of all that Linux-based networks have to offer. Understand how Linux networks function and get to grips with essential tips and tricks to manage them - whether you're already managing a networks, or even just starting out. With Debian and CentOS as its source, this book will divulge all the details you need to manage a real Linux-based network. With detailed activities and instructions based on real-world scenarios, this book will be your guide to the exciting world of Linux networking. Style and approach This practical guide will walk you through all the core concepts required to manage real Linux-based networks.

If you are a system administrator who wants to become an expert in controlling and automating your Windows environment, then this book is for you. Prior knowledge of PowerShell's core elements and applications is required for this book.

Achieve enterprise automation in your Linux environment with this comprehensive guide Key Features Automate your Linux infrastructure with the help of practical use cases and real-world scenarios Learn to plan, build, manage, and customize OS releases in your environment Enhance the scalability and efficiency of your infrastructure with advanced Linux system administration concepts Book Description Automation is paramount if you want to run Linux in your enterprise effectively. It helps you minimize costs by reducing manual operations, ensuring compliance across data centers, and accelerating deployments for your cloud infrastructures. Complete with detailed explanations, practical examples, and self-assessment questions, this book will teach you how to manage your Linux estate and leverage Ansible to achieve effective levels of automation. You'll learn important concepts on standard operating environments that lend themselves to automation, and then build on this knowledge by applying Ansible to achieve standardization throughout your Linux environments. By the end of this Linux automation book, you'll be able to build, deploy, and manage an entire estate of Linux servers with higher reliability and lower overheads than ever before. What you will learn Perform large-scale automation of Linux environments in an enterprise Overcome the common challenges and pitfalls

of extensive automation Define the business processes needed to support a large-scale Linux environment Get well-versed with the most effective and reliable patch management strategies Automate a range of tasks from simple user account changes to complex security policy enforcement Learn best practices and procedures to make your Linux environment automatable Who this book is for This book is for anyone who has a Linux environment to design, implement, and maintain. Open source professionals including infrastructure architects and system administrators will find this book useful. You're expected to have experience in implementing and maintaining Linux servers along with knowledge of building, patching, and maintaining server infrastructure. Although not necessary, knowledge of Ansible or other automation technologies will be beneficial. 1932 a lost chapter in the history of biology. Contents: Antoine Bechamp; the Mystery of Fermentation; a Babel of Theories; Pasteur's Memoirs of 1857; Bechamp's Beacon Experiment; Claims & contradictions; the Soluble Ferment; Rival Theories & Wo.

The current trend of various hacking and security breaches displays how important it has become to pentest your environment, to ensure end point protection. This book will take you through the latest version of Kali Linux to efficiently deal with various crucial security aspects such as confidentiality, integrity, access control and authentication.

Simplify your DevOps roles with DevOps tools and techniques Key Features Learn to utilize business resources effectively to increase productivity and collaboration Leverage the ultimate open source DevOps tools to achieve continuous integration and continuous delivery (CI/CD) Ensure faster time-to-market by reducing overall lead time and deployment downtime Book Description The implementation of DevOps processes requires the efficient use of various tools, and the choice of these tools is crucial for the sustainability of projects and collaboration between development (Dev) and operations (Ops). This book presents the different patterns and tools that you can use to provision and configure an infrastructure in the cloud. You'll begin by understanding DevOps culture, the application of DevOps in cloud infrastructure, provisioning with Terraform, configuration with Ansible, and image building with Packer. You'll then be taken through source code versioning with Git and the construction of a DevOps CI/CD pipeline using Jenkins, GitLab CI, and Azure Pipelines. This DevOps handbook will also guide you in containerizing and deploying your applications with Docker and Kubernetes. You'll learn how to reduce deployment downtime with blue-green deployment and the feature flags technique, and study DevOps practices for open source projects. Finally, you'll grasp some best practices for reducing the overall application lead time to ensure faster time to market. By the end of this book, you'll have built a solid foundation in DevOps, and developed the skills necessary to enhance a traditional software delivery process using modern software delivery tools and techniques What you will learn Become well versed with DevOps culture and its practices Use Terraform and Packer for cloud infrastructure provisioning Implement Ansible for infrastructure configuration Use basic Git commands and understand the Git flow process Build a DevOps pipeline with Jenkins, Azure Pipelines, and GitLab CI Containerize your applications with Docker and Kubernetes Check application quality with SonarQube and Postman Protect DevOps processes and applications using DevSecOps tools Who this book is for If you are a developer or a system administrator interested in understanding continuous integration, continuous delivery, and containerization with DevOps tools and techniques, this book is for you.

Get a Jump Start on version control with Git today! If you've worked on a web development project of any size, you've probably used Git, the most broadly adopted distributed version control system available. It enables you to store different versions of project files and directories, so you can roll back to an earlier one if something goes wrong. And since it's distributed, it smoothes the path for dev team collaboration. This short, practical book will help you to: Understand Git's core philosophy. Get started with Git: install it, learn the basic commands, and set up your first project. Work with Git as part of a collaborative team. Use Git's debugging tools for maximum debug efficiency. Master Git workflow Take control with Git's advanced features: reflog, rebase, stash, and more. Use Git with cloud-based Git repository host services like Github and Bitbucket. See how Git's used effectively on large open-source projects. Whether you're a Git newbie or you've been using it for some time but only really scratching the surface of its capabilities, this book will help you to gain a deep understanding of how Git works, and how to use it to streamline your workflow.

Identify vulnerabilities across applications, network and systems using simplified cybersecurity scripting KEY FEATURES ? Exciting coverage on red teaming methodologies and penetration testing techniques. ? Explore the exploitation development environment and process of creating exploit scripts. ? Includes powerful Python libraries to analyze the web and helps identifying critical vulnerabilities. ? Conduct wireless attacks and identify potential threats using Python. DESCRIPTION This book starts with an understanding of penetration testing and red teaming methodologies and teaches Python 3.x from scratch for those who are not familiar with programming. The book gives the skills of how to create scripts for cracking, and brute force attacks. The second part of this book focuses on the network and wireless level. The book teaches you the skills of how to create an offensive tool using Python 3.x to identify different services and ports using different Python network modules and conducting network attacks. In the network monitoring section, you will be able to monitor layers 3 and 4. And finally, you will be able to conduct different attacks on wireless. The last part of this book focuses on web applications and exploitation developments. It focuses on how to create scripts to extract web information such as links, images, documents, etc. It also focuses on how to create scripts to identify and exploit web vulnerabilities and how to bypass WAF. The last chapter of this book focuses on exploitation development starting with how to play with the stack and then moving on to how to use Python in fuzzing and creating exploitation scripts. WHAT YOU WILL LEARN ? Learn to code Python scripts from scratch to identify web vulnerabilities. ? Conduct network attacks, create offensive tools, and identify vulnerable services and ports. ? Perform deep monitoring of network up to layers 3 and 4. ? Execute web scraping scripts to extract images, documents, and links. WHO THIS BOOK IS FOR This book is for Penetration Testers, Security Researchers, Red Teams, Security Auditors and IT Administrators who want to start with an action plan in protecting their IT systems. All you need is some basic understanding of programming concepts and working of IT systems. Hands-on experience with python will be more beneficial but not required. TABLE OF CONTENTS 1. Start with Penetration Testing and Basic Python 2. Cracking with Python 3. Service and Applications Brute Forcing with Python 4. Python Services Identifications - Ports and Banner 5. Python Network Modules and Nmap 6. Network Monitoring with Python 7. Attacking Wireless with Python 8. Analyze Web Applications with Python 9. Attack Web Application with Python 10. Exploitation Development with Python

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Over 70 recipes for system administrators or DevOps to master Kali Linux 2 and perform effective security assessments About This Book Set up a penetration testing lab to conduct a

preliminary assessment of attack surfaces and run exploits Improve your testing efficiency with the use of automated vulnerability scanners Work through step-by-step recipes to detect a wide array of vulnerabilities, exploit them to analyze their consequences, and identify security anomalies Who This Book Is For This book is intended for those who want to know more about information security. In particular, it's ideal for system administrators and system architects who want to ensure that the infrastructure and systems they are creating and managing are secure. This book helps both beginners and intermediates by allowing them to use it as a reference book and to gain in-depth knowledge. What You Will Learn Understand the importance of security assessments over merely setting up and managing systems/processes Familiarize yourself with tools such as OPENVAS to locate system and network vulnerabilities Discover multiple solutions to escalate privileges on a compromised machine Identify security anomalies in order to make your infrastructure secure and further strengthen it Acquire the skills to prevent infrastructure and application vulnerabilities Exploit vulnerabilities that require a complex setup with the help of Metasploit In Detail With the increasing threats of breaches and attacks on critical infrastructure, system administrators and architects can use Kali Linux 2.0 to ensure their infrastructure is secure by finding out known vulnerabilities and safeguarding their infrastructure against unknown vulnerabilities. This practical cookbook-style guide contains chapters carefully structured in three phases – information gathering, vulnerability assessment, and penetration testing for the web, and wired and wireless networks. It's an ideal reference guide if you're looking for a solution to a specific problem or learning how to use a tool. We provide hands-on examples of powerful tools/scripts designed for exploitation. In the final section, we cover various tools you can use during testing, and we help you create in-depth reports to impress management. We provide system engineers with steps to reproduce issues and fix them. Style and approach This practical book is full of easy-to-follow recipes with based on real-world problems faced by the authors. Each recipe is divided into three sections, clearly defining what the recipe does, what you need, and how to do it. The carefully structured recipes allow you to go directly to your topic of interest.

An insightful guide to learning the Go programming language About This Book Insightful coverage of Go programming syntax, constructs, and idioms to help you understand Go code effectively Push your Go skills, with topics such as, data types, channels, concurrency, object-oriented Go, testing, and network programming Each chapter provides working code samples that are designed to help reader quickly understand respective topic Who This Book Is For If you have prior exposure to programming and are interested in learning the Go programming language, this book is designed for you. It will quickly run you through the basics of programming to let you exploit a number of features offered by Go programming language. What You Will Learn Install and configure the Go development environment to quickly get started with your first program. Use the basic elements of the language including source code structure, variables, constants, and control flow primitives to quickly get started with Go Gain practical insight into the use of Go's type system including basic and composite types such as maps, slices, and structs. Use interface types and techniques such as embedding to create idiomatic object-oriented programs in Go. Develop effective functions that are encapsulated in well-organized package structures with support for error handling and panic recovery. Implement goroutine, channels, and other concurrency primitives to write highly-concurrent and safe Go code Write tested and benchmarked code using Go's built test tools Access OS resources by calling C libraries and interact with program environment at runtime In Detail The Go programming language has firmly established itself as a favorite for building complex and scalable system applications. Go offers a direct and practical approach to programming that let programmers write correct and predictable code using concurrency idioms and a full-featured standard library. This is a step-by-step, practical guide full of real world examples to help you get started with Go in no time at all. We start off by understanding the fundamentals of Go, followed by a detailed description of the Go data types, program structures and Maps. After this, you learn how to use Go concurrency idioms to avoid pitfalls and create programs that are exact in expected behavior. Next, you will be familiarized with the tools and libraries that are available in Go for writing and exercising tests, benchmarking, and code coverage. Finally, you will be able to utilize some of the most important features of GO such as, Network Programming and OS integration to build efficient applications. All the concepts are explained in a crisp and concise manner and by the end of this book; you would be able to create highly efficient programs that you can deploy over cloud. Style and approach The book is written to serve as a reader-friendly step-by-step guide to learning the Go programming language. Each topic is sequentially introduced to build on previous materials covered. Every concept is introduced with easy-to-follow code examples that focus on maximizing the understanding of the topic at hand.

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