

Bash User Guide

This volume is the official reference manual for GNU Bash, the standard GNU command-line interpreter. *The Most Useful UNIX Guide for Mac OS X Users Ever, with Hundreds of High-Quality Examples!* Beneath Mac OS® X's stunning graphical user interface (GUI) is the most powerful operating system ever created: UNIX®. With unmatched clarity and insight, this book explains UNIX for the Mac OS X user—giving you total control over your system, so you can get more done, faster. Building on Mark Sobell's highly praised *A Practical Guide to the UNIX System*, it delivers comprehensive guidance on the UNIX command line tools every user, administrator, and developer needs to master—together with the world's best day-to-day UNIX reference. This book is packed with hundreds of high-quality examples. From networking and system utilities to shells and programming, this is UNIX from the ground up—both the "whys" and the "hows"—for every Mac user. You'll understand the relationships between GUI tools and their command line counterparts. Need instant answers? Don't bother with confusing online "manual pages": rely on this book's example-rich, quick-access, 236-page command reference! Don't settle for just any UNIX guidebook. Get one focused on your specific needs as a Mac user! *A Practical Guide to UNIX® for Mac OS® X Users* is the most useful,

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comprehensive UNIX tutorial and reference for Mac OS X and is the only book that delivers Better, more realistic examples covering tasks you'll actually need to perform Deeper insight, based on the authors' immense knowledge of every UNIX and OS X nook and cranny Practical guidance for experienced UNIX users moving to Mac OS X Exclusive discussions of Mac-only utilities, including plutil, ditto, nidump, otool, launchctl, diskutil, GetFileInfo, and SetFile Techniques for implementing secure communications with ssh and scp—plus dozens of tips for making your OS X system more secure Expert guidance on basic and advanced shell programming with bash and tcsh Tips and tricks for using the shell interactively from the command line Thorough guides to vi and emacs designed to help you get productive fast, and maximize your editing efficiency In-depth coverage of the Mac OS X filesystem and access permissions, including extended attributes and Access Control Lists (ACLs) A comprehensive UNIX glossary Dozens of exercises to help you practice and gain confidence And much more, including a superior introduction to UNIX programming tools such as awk, sed, otool, make, gcc, gdb, and CVS

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

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(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

Every few generations, there is a 'killer app' (i.e. the spreadsheet, email, etc.). These are apps that change the industry in such a way that changes the way people work. The current killer app is Bitcoin, because it is essentially allowing software to generate money from 'mined' data. Bitcoin also started the cryptocurrencies and Blockchain movement that is revolutionizing the financial industry. Each of these two technologies has started whole new movements that are creating new companies, wealth, and products.

Whether you're just starting out with Linux or looking to hone your existing skills, this book will provide you

with the knowledge you need.

“Leonard’s durable tome (seriously, the cover is rubber) is stuffed with so many tips about surviving in the wild, you’ll be able to leave your smartphone behind.” —Entertainment Weekly, Best New Books

This easy introduction to outdoor life will ensure that even a novice won’t get lost in the woods while finding an activity he loves to do in the great outdoors--whether it’s hiking a 14er or camping on ice. With 400 strategies for engaging in the outdoors, and expert tips and tricks, *Surviving the Great Outdoors* makes Mother Nature easier to understand than ever before. Brendan Leonard, writer, filmmaker, and outdoor adventurer, shows the reader how rewarding it can be to live life away from the computer and get outside. From mountain climbing, to skiing, sledding, and sailing, Leonard shows that you don’t need to be a risk taker to enjoy the outdoors. And if the reader does find himself at the point of man vs. nature, Leonard shares survival skills from how to bandage a wound and read a topographical map, to how to drive on sand and remove a tick from your skin—all organized thematically and written in short takeaway entries with helpful line drawings. Bound in a uniquely rugged (and waterproof!) PVC cover material, *Surviving the Great Outdoors* is a friendly way into the outdoor lifestyle, whether you're looking to dabble or go all in.

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Learn the Raspberry Pi 3 from the experts! Raspberry Pi User Guide, 4th Edition is the "unofficial official" guide to everything Raspberry Pi 3. Written by the Pi's creator and a leading Pi guru, this book goes straight to the source to bring you the ultimate Raspberry Pi 3 manual. This new fourth edition has been updated to cover the Raspberry Pi 3 board and software, with detailed discussion on its wide array of configurations, languages, and applications. You'll learn how to take full advantage of the mighty Pi's full capabilities, and then expand those capabilities even more with add-on technologies. You'll write productivity and multimedia programs, and learn flexible programming languages that allow you to shape your Raspberry Pi into whatever you want it to be. If you're ready to jump right in, this book gets you started with clear, step-by-step instruction from software installation to system customization. The Raspberry Pi's tremendous popularity has spawned an entire industry of add-ons, parts, hacks, ideas, and inventions. The movement is growing, and pushing the boundaries of possibility along with it—are you ready to be a part of it? This book is your ideal companion for claiming your piece of the Pi. Get all set up with software, and connect to other devices Understand Linux System Admin nomenclature and conventions Write your own programs using Python and Scratch Extend the Pi's capabilities with add-ons like Wi-Fi dongles, a

touch screen, and more The credit-card sized Raspberry Pi has become a global phenomenon. Created by the Raspberry Pi Foundation to get kids interested in programming, this tiny computer kick-started a movement of tinkerers, thinkers, experimenters, and inventors. Where will your Raspberry Pi 3 take you? The Raspberry Pi User Guide, 3rd Edition is your ultimate roadmap to discovery.

The Bash Guide for Beginners (Second Edition) discusses concepts useful in the daily life of the serious Bash user. While a basic knowledge of shell usage is required, it starts with a discussion of shell building blocks and common practices. Then it presents the grep, awk and sed tools that will later be used to create more interesting examples. The second half of the course is about shell constructs such as loops, conditional tests, functions and traps, and a number of ways to make interactive scripts. All chapters come with examples and exercises that will help you become familiar with the theory.

Whether you're just starting out with Linux or looking to hone your existing skills, this book will provide you with the knowledge you need. For new users, it is an exploration tour and getting started guide, with exercises at the end of each chapter. Advanced trainees can consider it a desktop reference, a collection of the base knowledge needed to tackle system and network administration. To help you

work more effectively with Linux, this book contains hundreds of real life examples derived from the author's experience as a Linux system and network administrator, trainer and consultant. These examples will help you to get a better understanding of the Linux system and feel encouraged to try out things on your own.

Pro Git (Second Edition) is your fully-updated guide to Git and its usage in the modern world. Git has come a long way since it was first developed by Linus Torvalds for Linux kernel development. It has taken the open source world by storm since its inception in 2005, and this book teaches you how to use it like a pro. Effective and well-implemented version control is a necessity for successful web projects, whether large or small. With this book you'll learn how to master the world of distributed version workflow, use the distributed features of Git to the full, and extend Git to meet your every need. Written by Git pros Scott Chacon and Ben Straub, Pro Git (Second Edition) builds on the hugely successful first edition, and is now fully updated for Git version 2.0, as well as including an indispensable chapter on GitHub. It's the best book for all your Git needs.

Create and maintain powerful Bash scripts for automation and administration. Key Features Get up and running with Linux shell scripting using real-world examples Leverage command-line techniques

and methodologies to automate common yet complex administration tasks. A practical guide with exposure to scripting constructs and common scripting patterns. Book Description Shell scripts allow us to program commands in chains and have the system execute them as a scripted event, just like batch files. This book will start with an overview of Linux and Bash shell scripting, and then quickly deep dive into helping you set up your local environment, before introducing you to tools that are used to write shell scripts. The next set of chapters will focus on helping you understand Linux under the hood and what Bash provides the user. Soon, you will have embarked on your journey along the command line. You will now begin writing actual scripts instead of commands, and will be introduced to practical applications for scripts. The final set of chapters will deep dive into the more advanced topics in shell scripting. These advanced topics will take you from simple scripts to reusable, valuable programs that exist in the real world. The final chapter will leave you with some handy tips and tricks and, as regards the most frequently used commands, a cheat sheet containing the most interesting flags and options will also be provided. After completing this book, you should feel confident about starting your own shell scripting projects, no matter how simple or complex the task previously seemed. We aim to teach you how to script and what

to consider, to complement the clear-cut patterns that you can use in your daily scripting challenges. What you will learn Understand Linux and Bash basics as well as shell scripting fundamentals Learn to write simple shell scripts that interact with Linux operating system Build, maintain, and deploy scripts in a Linux environment Learn best practices for writing shell scripts Avoid common pitfalls associated with Bash scripting Gain experience and the right toolset to write your own complex shell scripts Who this book is for This book targets new and existing Linux system administrators, Windows system administrators or developers who are interested in automating administrative tasks. No prior shell scripting experience is needed but in case you do this book will make a pro quickly. Readers should have a basic understanding of the command line. The primary reason for writing this document is that a lot of readers feel the existing HOWTO to be too short and incomplete, while the Bash Scripting guide is too much of a reference work. There is nothing in between these two extremes. This is a practical guide, which, while not always being too serious, tries to give real life instead of theoretical examples. From my experience as UNIX/Linux user, system administrator and trainer, I know that people can have years of daily interaction with their systems, without having the slightest knowledge of task automation. Thus they often think that UNIX is not

user-friendly, and even worse, they get the impression that it is slow and old-fashioned. This problem is another one that can be remedied by this guide. Everybody working on a UNIX or UNIX-like system who wants to make life easier on themselves, power users and sysadmins alike, can benefit from reading this book.

O'Reilly's Pocket Guides have earned a reputation as inexpensive, comprehensive, and compact guides that have the stuff but not the fluff. Every page of Linux Pocket Guide lives up to this billing. It clearly explains how to get up to speed quickly on day-to-day Linux use. Once you're up and running, Linux Pocket Guide provides an easy-to-use reference that you can keep by your keyboard for those times when you want a fast, useful answer, not hours in the man pages. Linux Pocket Guide is organized the way you use Linux: by function, not just alphabetically. It's not the 'bible of Linux'; it's a practical and concise guide to the options and commands you need most. It starts with general concepts like files and directories, the shell, and X windows, and then presents detailed overviews of the most essential commands, with clear examples. You'll learn each command's purpose, usage, options, location on disk, and even the RPM package that installed it. The Linux Pocket Guide is tailored to Fedora Linux--the latest spin-off of Red Hat Linux--but most of the information applies to any Linux system. Throw in a host of valuable

power user tips and a friendly and accessible style, and you'll quickly find this practical, to-the-point book a small but mighty resource for Linux users.

"Get the most from cPanel with this easy to follow guide."--Resource description p.

Bash is the shell, or command language interpreter, for the gnu operating system. The name is an acronym for the 'Bourne-Again SHell', a pun on Stephen Bourne, the author of the direct ancestor of the current Unix shell sh, which appeared in the Seventh Edition Bell Labs Research version of Unix. Bash is largely compatible with sh and incorporates useful features from the Korn shell ksh and the C shell csh. It is intended to be a conformant implementation of the ieee posix Shell and Tools portion of the ieee posix specification (ieee Standard 1003.1). It offers functional improvements over sh for both interactive and programming use. While the gnu operating system provides other shells, including a version of csh, Bash is the default shell. Like other gnu software, Bash is quite portable. It currently runs on nearly every version of Unix and a few other operating systems. This manual is available online for free at gnu.org. This manual is printed in grayscale.

It's simple: if you want to interact deeply with Mac OS X, Linux, and other Unix-like systems, you need to know how to work with the Bash shell. This concise little book puts all of the essential information about Bash right at your fingertips. You'll quickly find answers to the annoying questions that generally come up when you're writing shell scripts: What characters do you need to quote? How do you get variable substitution to do exactly

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what you want? How do you use arrays? Updated for Bash version 4.4, this book has the answers to these and other problems in a format that makes browsing quick and easy. Topics include: Invoking the shell Syntax Functions and variables Arithmetic expressions Command history Programmable completion Job control Shell options Command execution Coprocesses Restricted shells Built-in commands

Readers examine two of the most prominent operating systems -- Windows 10 and Linux CentOS7 -- in parallel with the unique approach found only in **GUIDE TO PARALLEL OPERATING SYSTEMS WITH WINDOWS 10 AND LINUX, 3E**. Rather than using a compare and contrast model, the book presents each topic conceptually before demonstrating it simultaneously on both operating systems. Readers can instantly switch between Windows 10 and Linux CentOS 7 to complete the myriad of hands-on activities that reinforce the similarities between the two operating systems for each conceptual task. The text's virtualization approach provides flexibility that enables readers to use Microsoft Hyper-V Client, Oracle VirtualBox, or VMWare Workstation. This comprehensive guide helps users develop the competencies needed in Windows 10 and Linux to maximize success in today's classroom or tomorrow's business environment. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

The Nokia Network Security Solutions Handbook introduces readers to both the basics and the finer points

of administering, configuring, and securing the Nokia IP-series hardware appliances. It introduces readers to the different hardware models and covers the features associated with each. Installation and setup are covered in detail, as well as installation and configuration of the Check Point firewall on the Nokia system. Readers will learn basic system administration, security, and monitoring before moving into advanced system administration concepts, as well as learning how to use Nokia's command line interface. Routing configurations and the different protocols involved are covered in detail, finishing off with a comprehensive discussion of the High-availability configuration that is Nokia's strength. The appendices include coverage of the UNIX basics which lie at the heart of the IPSO operating system and a review of the other packages available for Nokia systems (such as Perl and Bash). The only book dedicated to coverage of the latest Nokia hardware and software offerings, from the SOHO appliances to the enterprise-class IP700 series, with an emphasis on administering and securing these systems. Long-term market potential. The operating system referenced will be Nokia IPSO 3.4.1, which has an interface that has been specifically tailored to make upgrading to newer versions of IPSO simple and intuitive. In addition, the underlying interface is UNIX based, which has been a constant for over 30 years. Up-to-the-Minute Web-based Support. Once they have absorbed the content of the book, readers can receive up-to-the minute links, white papers, and analysis for one year at solutions@syngress.com. This book is an exploration of Shell programming, also

referred to as Bash Scripting. It begins by guiding you on how to automate the various tasks in UNIX by using the Shell scripts. The book also guides you on the effective steps on how to write the Shell scripts. In UNIX, we should come up with an effective mechanism for management of file systems and software packages. This book guides you on the effective way to do this in Shell. You are also guided on how to use the various UNIX editors such as the Vim editor, nano, and GNOME. You will learn how to use the various shortcuts provided by these text editors, as well as how to navigate within your file opened in the text editor. Structured commands, which are very common in Shell, are discussed in detail. You will learn how to use such statements for decision-making as well as for looping through your program. You are also guided on how to manipulate your text, as well as how to use regular expressions. In some programs, it is good for you to implement a mechanism for accepting user input and then making a decision based on that input. This book clearly guides you on how to do this in Bash scripting. Command line arguments have also been explored in detail. The following topics are discussed in this book: - Automate Tasks with Simple Script Utilities - Creating Shell Scripts - Manage Filesystems and Software Packages - Work with nano, KDE, and GNOME editors - Structured Commands, Text Manipulation, and Regular Expressions - Keyboard Input - Command Line Arguments

How Can I Use Essbase to Analyze Data? With millions of users world-wide, Essbase seems to be everywhere these days and now it's a part of your life. You want to

slice and dice data, analyze information, and make highly formatted spreadsheet retrievals. You're sure Essbase is the answer and thank goodness your boss bought copies of this book for your entire department! This book is your key to unlocking the world of analysis through Essbase. You will learn: [How to connect to Essbase databases and retrieve data [What is multi-dimensionality and why should you care? [The basics of Essbases end-user add-ins for adhoc analysis [Steps to creating highly formatted reports and templates that you can use month after month [Creation and saving of advanced analytic queries using the query designers

This collection of tips, tools, and scripts provides clear, concise, hands-on solutions that can be applied to the challenges facing anyone running a network of Linux servers from small networks to large data centers.

Apache Tomcat (or Jakarta Tomcat or simply Tomcat) is an open source servlet container developed by the Apache Software Foundation (ASF). Tomcat implements the Java Servlet and the JavaServer Pages (JSP) specifications.

The official "Fedora 14 User Guide" is focused on the end-user looking to accomplish standard desktop computer user tasks, such as browsing the web, reading and sending email, and doing office productivity work.

For system administrators, programmers, and end users, shell command or carefully crafted shell script can save you time and effort, or facilitate consistency and repeatability for a variety of common tasks. This cookbook provides more than 300 practical recipes for using bash, the popular Unix shell that enables you to harness and customize the power of any Unix or Linux system. Ideal for new and experienced users alike—including proficient Windows users and sysadmins—this

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updated second edition helps you solve a wide range of problems. You'll learn ways to handle input/output, file manipulation, program execution, administrative tasks, and many other challenges. Each recipe includes one or more scripting examples and a discussion of why the solution works. You'll find recipes for problems including: Standard output and input, and executing commands Shell variables, shell logic, and arithmetic Intermediate shell tools and advanced scripting Searching for files with find, locate, and slocate Working with dates and times Creating shell scripts for various end-user tasks Working with tasks that require parsing Writing secure shell scripts Configuring and customizing bash

Presents information on computing and programming with Raspberry Pi. Original.

You've experienced the shiny, point-and-click surface of your Linux computer—now dive below and explore its depths with the power of the command line. The Linux Command Line takes you from your very first terminal keystrokes to writing full programs in Bash, the most popular Linux shell. Along the way you'll learn the timeless skills handed down by generations of gray-bearded, mouse-shunning gurus: file navigation, environment configuration, command chaining, pattern matching with regular expressions, and more. In addition to that practical knowledge, author William Shotts reveals the philosophy behind these tools and the rich heritage that your desktop Linux machine has inherited from Unix supercomputers of yore. As you make your way through the book's short, easily-digestible chapters, you'll learn how to:

- * Create and delete files, directories, and symlinks
- * Administer your system, including networking, package installation, and process management
- * Use standard input and output, redirection, and pipelines
- * Edit files with Vi, the world's most popular text editor
- * Write shell scripts to

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automate common or boring tasks * Slice and dice text files with cut, paste, grep, patch, and sed Once you overcome your initial "shell shock," you'll find that the command line is a natural and expressive way to communicate with your computer. Just don't be surprised if your mouse starts to gather dust. A featured resource in the Linux Foundation's "Evolution of a SysAdmin"

The official "Fedora 13 User Guide" is focused on the end-user looking to accomplish standard desktop computer user tasks, such as browsing the web, reading and sending email, and doing office productivity work.

The Fedora 13 SELinux user guide is for people with minimal or no experience with SELinux. ... This guide provides an introduction to fundamental concepts and practical applications of SELinux. After reading this guide you should have an intermediate understanding of SELinux--P. 8.

Learn how to write shell script effectively with Bash, to quickly and easily write powerful scripts to manage processes, automate tasks, and to redirect and filter program input and output in useful and novel ways. Key Features Demystify the Bash command line Write shell scripts safely and effectively Speed up and automate your daily work Book Description Bash and shell script programming is central to using Linux, but it has many peculiar properties that are hard to understand and unfamiliar to many programmers, with a lot of misleading and even risky information online. Bash Quick Start Guide tackles these problems head on, and shows you the best practices of shell script programming. This book teaches effective shell script programming

with Bash, and is ideal for people who may have used its command line but never really learned it in depth. This book will show you how even simple programming constructs in the shell can speed up and automate any kind of daily command-line work. For people who need to use the command line regularly in their daily work, this book provides practical advice for using the command-line shell beyond merely typing or copy-pasting commands into the shell. Readers will learn techniques suitable for automating processes and controlling processes, on both servers and workstations, whether for single command lines or long and complex scripts. The book even includes information on configuring your own shell environment to suit your workflow, and provides a running start for interpreting Bash scripts written by others. What you will learn

- Understand where the Bash shell fits in the system administration and programming worlds
- Use the interactive Bash command line effectively
- Get to grips with the structure of a Bash command line
- Master pattern-matching and transforming text with Bash Filter and redirect program input and output
- Write shell scripts safely and effectively
- Who this book is for

People who use the command line on Unix and Linux servers already, but don't write primarily in Bash. This book is ideal for people who've been using a scripting language such as Python, JavaScript or PHP, and would like to

understand and use Bash more effectively.

Master the complexities of Bash shell scripting and unlock the power of shell for your enterprise Key Features Identify high-level steps such as verifying user input Using the command line and conditional statements in creating/executing simple shell scripts Create and edit dynamic shell scripts to manage complex and repetitive tasks Leverage the command-line to bypass GUI and automate common tasks

Book Description In this book, you'll discover everything you need to know to master shell scripting and make informed choices about the elements you employ. Grab your favorite editor and start writing your best Bash scripts step by step. Get to grips with the fundamentals of creating and running a script in normal mode, and in debug mode. Learn about various conditional statements' code snippets, and realize the power of repetition and loops in your shell script. You will also learn to write complex shell scripts. This book will also deep dive into file system administration, directories, and system administration like networking, process management, user authentications, and package installation and regular expressions. Towards the end of the book, you will learn how to use Python as a BASH Scripting alternative. By the end of this book, you will know shell scripts at the snap of your fingers and will be able to automate and communicate with your system with keyboard

expressions. What you will learn Make, execute, and debug your first Bash script Create interactive scripts that prompt for user input Foster menu structures for operators with little command-line experience Develop scripts that dynamically edit web configuration files to produce a new virtual host Write scripts that use AWK to search and reports on log files Draft effective scripts using functions as building blocks, reducing maintenance and build time Make informed choices by comparing different script languages such as Python with BASH Who this book is for If you are a Linux administrator or a system administrator and are interested in automating tasks in your daily lives, saving time and effort, this book is for you. Basic shell scripting and command-line experience will be required. Familiarity with the tasks you need to automate will be helpful.

This guide aims to aid people interested in learning to work with BASH. It aspires to teach good practice techniques for using BASH, and writing simple scripts. This guide is targeted at beginning users. It assumes no advanced knowledge -- just the ability to login to a Unix-like system and open a command-line (terminal) interface. It will help if you know how to use a text editor; we will not be covering editors, nor do we endorse any particular editor choice.

Familiarity with the fundamental Unix tool set, or with other programming languages or programming concepts, is not required, but those who have such

knowledge may understand some of the examples more quickly.

O'Reilly's bestselling book on Linux's bash shell is at it again. Now that Linux is an established player both as a server and on the desktop Learning the bash Shell has been updated and refreshed to account for all the latest changes. Indeed, this third edition serves as the most valuable guide yet to the bash shell. As any good programmer knows, the first thing users of the Linux operating system come face to face with is the shell the UNIX term for a user interface to the system. In other words, it's what lets you communicate with the computer via the keyboard and display. Mastering the bash shell might sound fairly simple but it isn't. In truth, there are many complexities that need careful explanation, which is just what Learning the bash Shell provides. If you are new to shell programming, the book provides an excellent introduction, covering everything from the most basic to the most advanced features. And if you've been writing shell scripts for years, it offers a great way to find out what the new shell offers. Learning the bash Shell is also full of practical examples of shell commands and programs that will make everyday use of Linux that much easier. With this book, programmers will learn: How to install bash as your login shell The basics of interactive shell use, including UNIX file and directory structures, standard I/O, and background

jobs Command line editing, history substitution, and key bindings How to customize your shell environment without programming The nuts and bolts of basic shell programming, flow control structures, command-line options and typed variables Process handling, from job control to processes, coroutines and subshells Debugging techniques, such as trace and verbose modes Techniques for implementing system-wide shell customization and features related to system security

The key to mastering any Unix system, especially Linux and Mac OS X, is a thorough knowledge of shell scripting. Scripting is a way to harness and customize the power of any Unix system, and it's an essential skill for any Unix users, including system administrators and professional OS X developers. But beneath this simple promise lies a treacherous ocean of variations in Unix commands and standards. *bash Cookbook* teaches shell scripting the way Unix masters practice the craft. It presents a variety of recipes and tricks for all levels of shell programmers so that anyone can become a proficient user of the most common Unix shell -- the bash shell -- and cygwin or other popular Unix emulation packages. Packed full of useful scripts, along with examples that explain how to create better scripts, this new cookbook gives professionals and power users everything they need to automate

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routine tasks and enable them to truly manage their systems -- rather than have their systems manage them.

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