Linux Shell Scripting With Bash

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 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

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This book covers the Linux command line commands, Bash Scripting Tricks, Linux Shell Programming Tips and Bash One-liners. The book starts by explaining on the origin of Linux, the people behind its development and also the reason behind development of Linux. The commands for the Linux command line have been discussed. These range from the basic ones to the more complex ones. Once you have read this book, you will understand how to view the contents of files on the standard output, copy and move files while preserving the file permissions and as well as navigate through different directories via the command line. Searching is very important in Linux. The grep command used for searching in Linux has been explored in this book including its numerous option, thus, you will become an expert in this. Tail command, which is used for viewing and particularly the last parts of a file, has also been discussed. You will get to know how to update your system and adjust its date and time via the command line. The tricks behind bash scripting have also been discussed. These include brace expansion, command substitution, command history and loops. Shell scripting has also been discusses. You will be able to create an executable of a shell file and execute it via the command line. Variable, loops, case statement and decision making shell have been explored in detail.

Shell scripts are an efficient way to interact with your machine and manage your files and system operations. With just a few lines of code, your computer will do exactly what you want it to do. But you can also use shell scripts for many other essential (and not-so-essential) tasks. This second edition of Wicked Cool Shell Scripts offers a collection of useful, customizable, and fun shell scripts for solving common problems and personalizing your computing environment. Each chapter contains ready-to-use scripts and explanations of how they work, why you'd want to use them, and suggestions for changing and expanding them. You'll find a mix of classic favorites, like a disk backup utility that keeps your files safe when your system crashes, a password manager, a weather tracker, and several games, as well as 23 brand-new scripts, including: – ZIP code lookup tool that reports the city and state – Bitcoin address information retriever – suite of tools for working with cloud services like Dropbox and iCloud – for renaming and applying commands to files in bulk – processing and editing tools Whether you want to save time managing your system or just find new ways to goof off, these scripts are wicked cool!

Mastering Linux Shell Scripting - Second EditionPackt Publishing

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.

Have you tried to learn shell scripting on your own, but lack the structure you need to really improve your skills?One of the biggest complaints I hear from students is that most of the book they've taken in the past simply provide information without any context and without any idea of howto put that information to use! This book turns that old, frustrating, and outdated way of learning on its head. It's project-based, which means instead of learning bits and pieces of information, you'll write actual shell scripts that you can use in real-world situations. You get the chance to immediately put what you learn to use so that you fully understand and remember it.In this Linux Shell Scripting for Beginners: A practical guide to Bash scripting, Linux command-line, and Shell programming book you will learn how to: -Name your shell scripts.-Use the proper permissions on your shell scripts.-Create and

use variables in your scripts.-Use shell built-in commands and operating system commands.-Make the most out of special variables that are available to you in your scripts.-Make decisions by using if statements and performing several different kinds of tests-Check the exit statuses of commands and why you need to.-Use cryptographic hash functions-Create random data so you can do things like automatically generate strong passwords for user accounts.-Perform the same action or set of actions over a series of data utilizing for loops, while loops, and infinite loops.-Control all types of input and output.-Accept standard input from a user as well as from another program.-Redirect standard output and standard error.-Combine standard output and standard error-Use command pipe lining-Perform text and string manipulation.-Process command line arguments-Creating functions and when to do so.-Parsing, analyzing, and reporting on log files, CSV files, and other data.-Writing scripts that execute commands on other systems.-Much, much, more...

Learn shell scripting to solve complex shell-related problems and to efficiently automate your day-to-day tasks About This Book Familiarize yourself with the terminal by learning about powerful shell features Automate tasks by writing shell scripts for repetitive work Packed with easy-to-follow, hands-on examples to help you write any type of shell script with confidence Who This Book Is For This book is aimed at administrators and those who have a basic knowledge of shell scripting and who want to learn how to get the most out of writing shell scripts. What You Will Learn Write effective shell scripts easily Perform search operations and manipulate large text data with a single shell command Modularize reusable shell scripts by creating shell libraries Redirect input, output, and errors of a command or script execution to other streams Debug code with different shell debugging techniques to make your scripts bug-free Manage processes, along with the environment variables needed to execute them properly Execute and embed other languages in your scripts Manage creation, deletion, and search operations in files In Detail Shell scripting is a quick method to prototype complex applications or problems. Shell scripts are a collection of commands to automate tasks, usually those for which the user has a repeated need, when working on Linux-based systems. Using simple commands or a combination of them in a shell can solve complex problems easily. This book starts with the basics, including essential commands that can be executed on Linux systems to perform tasks within a few nanoseconds. You'll learn to use outputs from commands and transform them to show the data you require. Discover how to write shell scripts easily, execute script files, debug, and handle errors. Next, you'll explore environment variables in shell programming and learn how to customize them and add a new environment. Finally, the book walks you through processes and how these interact with your shell scripts, along with how to use scripts to automate tasks and how to embed other languages and execute them. Style and approach This book is a pragmatic guide to writing efficient shell programs, complete with hands-on examples and tips.

Filled with over 150 essential, practical recipes that empower Unix users to regain lost timespent creating and testing shell scripts. The majority of scripts included are POSIX-compliantand supported by many of the major shell variants, including Bash, ksh, and sh.Each real-world example recipe follows the same problem-solution structure, meaningcross-referencing is easy and fast. Recipe topics include file conversion (DOS, UNIX, andMac), system administration, resource monitoring, filename management, complex datecalculations, screen control capabilities, and much more. Completely updated for this second edition and taking all the changes of the past tenyears into account, every recipe in this book is now relevant for a modern audience. AuthorsChris Johnson’s and Jayant Varma’s code is clear, direct, and applicable. Add this excellentreference to your library today.

Linux has been one of the widely adopted and popular OS when it comes to leveraging scripting and automating common tasks. With this book, readers will get to grips with shell scripting, automating repetitive tasks, text processing, regular expressions, pattern matching, backup and restore, and much more. The end goal of this book is to get ...

UNIX expert Randal K. Michael guides you through every detail of writing shell scripts to automate specific tasks. Each chapter begins with a typical, everyday UNIX challenge, then shows you how to take basic syntax and turn it into a shell scripting solution. Covering Bash, Bourne, and Korn shell scripting, this updated edition provides complete shell scripts plus detailed descriptions of each part. UNIX programmers and system administrators can tailor these to build tools that monitor for specific system events and situations, building solid UNIX shell scripting skills to solve real-world system administration problems.

The bash shell is a complete programming language, not merely a glue to combine external Linux commands. By taking full advantage of shell internals, shell programs can perform as snappily as utilities written in C or other compiled languages. And you will see how, without assuming Unix lore, you can write professional bash 4.0 programs through standard programming techniques. Complete bash coverage Teaches bash as a programming language Helps you master bash 4.0 features

"Learn bash programming for Linux, Unix, & Mac. Learn how to write bash scripts like a pro & solve real-world problems! If you want to learn how to write bash shell scripts like a pro, solve real-world problems, or automate repetitive and complex tasks, read on. By the end of this course you will be able to create bash scripts with ease. You'll learn how to take tedious and repetitious tasks and turn them into programs that will save you time and simplify your life on Linux, Unix, or MAC systems. What you learn in this course can be applied to any shell, however, the focus is on the bash shell and you'll learn some really advanced bash features. Again, whether you're using bash, bourne (sh), KornShell (ksh), C shell (csh), Z shell (zsh), or even the tcsh shell, you'll be able to put what you learn in this course to good use. Also, you'll be able to use these scripts on any Linux environment including Ubuntu, Debian, Linux Mint, RedHat, Fedora, OpenSUSE, Slackware, Kali Linux and more. You're scripts will even run on other operating systems such as Apple's Mac OS X, Oracle's Solaris, IBM's AIX, HP's HP-UX, FreeBSD, NetBSD, and OpenBSD. (Sorry, this course is NOT for Windows scripting or powershell scripting.)"--Resource description page.

Create and maintain powerful BASH scripts for automation and administration. About This Book 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. Who This Book Is For If you are a junior Linux system administrator, Windows system administrator or developer who is interested in automating tasks, then this book is for you. 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. What You Will Learn Understanding Linux basics Understanding Bash basics Understanding shell scripting fundamentals Learn to write simple shell scripts which interact with Linux processes How to build, maintain and deploy scripts in a Linux environment Learn best practices for writing shell scripts Avoiding common pitfalls associated with Bash scripting Having enough experience and the right toolset to write their own (complex) shell scripts In Detail Shell scripts allow us to program commands in chains and have the system execute them as a scripted event, just like batch files. They also allow for far more useful functions, such as command substitution. This book will start with an overview of Linux and Bash shell scripting, and then quickly deep dive into helping you setup your local environment and you will be introduced to tools which are used to write shell scripts. The next set of chapters will focus on helping you understand Linux 'under-the-hood', what Bash provides the user, and you will have started your journey on the command-line. You will now begin writing actual scripts instead of commands, and will be introduced to practical applications for scripts. The last 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 in the real world programs. The final chapter will leave you with some handy tips and tricks and for the most used commands, a cheat sheet with the most interesting flags and options will

also be given. After completing the book, you should feel confident about starting your own shell scripting projects, no matter how simple or complex the task previously seemed.

Master the complexities of Bash shell scripting and unlock the power of shell for your enterprise About This Book Identify the high level steps such as verifying user input, using command lines and conditional statements in creating and executing simple shell scripts Create and edit dynamic shell scripts to manage complex and repetitive tasks Learn about scripting in Perl and programming in Python as a BASH scripting alternative with this practical, step-by-step guide Who This Book Is For Mastering Linux Shell Scripting has been written for Linux administrators who want to automate tasks in their daily lives, saving time and effort. You'll need to have command-line experience and be familiar with the tasks that you need to automate. What You Will Learn Use the type command to identify the order of command evaluation 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 Perl and Python with BASH In Detail Shell scripting is a quick method to prototype a complex application or a problem by automating tasks when working on Linux-based systems. Using both simple one-line commands and command sequences complex problems can be solved with ease, from text processing to backing up sysadmin tools. In this book, you'll discover everything you need to know to master shell scripting and make informed choices about the elements you employ. 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. Implement functions and edit files using the Stream Editor, script in Perl, program in Python – as well as complete coverage of other scripting languages to ensure you can choose the best tool for your project. Style and approach The book will capture your attention and keep you engaged with the simplicity and clarity of each explanation. Every step is accompanied with screen captures so you can cross-check the results before moving on.

You Too Can be a Linux Command Line Genius! You've seen the sleek and point and click surface that is the Linux desktop client. While this is great, we all know the real power of Linux lies beneath the hood. The problem is the command line is intimidating and you want to learn it quickly and as easily as possible. Linux Command Line takes you from your very first baby steps all the way to writing files and creating your own Bash scripts. Along the way you'll learn the basics of file navigation, directory setup and all the handy tips and tricks passed down over the years by your fellow keyboard lovers! Join Travis Booth, author of Machine Learning With Python and Python Data Analytics, as he teaches you all about: Creating symlinks, deleting files and directories An introduction to VI The basics of Bash Writing your first shell scripts Grep, sed and all other text file manipulation tools and so much more! Stop giving into shell shock and join the hundreds of programmers who have adopted the command line as a means of communicating with the wonderful tool that is Linux. Get your copy today! Bonus: Buy the paperback and get the ebook absolutely free with Kindle Matchbook!

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

SHELL SCRIPTING , UNIX , LINUX This book is for all those who are willing to learn UNIX like operating system and shell scripting. You can start reading this book without any knowledge of programming / scripting or any knowledge of any Linux/ UNIX operating system. All of the programs / scripts in this book are explained as a step by step program with clear instructions. Each chapter will contain a certain number of relevant topics with illustrations and exercises where necessary, this will all be finished off with an end of chapter quiz for an easy and enjoyable learning. In this book you will find the following topics: wildcards, functions, text processing, text searching, loops, troubleshooting and debugging. At the end of this book you will learn how to write more complex scripts using variables, functions and loops. If you are Linux new user, so this book is good for you, keep in mind this is not about Linux system administration. CLICK ADD TO CART TO GET THIS AMAZING BOOK!

With the proliferation of Linux as both a server and desktop operating system, users are looking for more advanced methods of getting up and running quickly and efficiently solving problems. The most powerful way of achieving this is to employ the command line interface known as the shell. Bash, the Bourne Again Shell, is the most popular Linux shell today. Linux Shell Scripting with Bash emphasizes professional scripting solutions through the use of structured programming and standard Linux development tools. The book focuses on the Linux environment and the robust tool set therein. Because the shell relies on the operating system for its functionality this is the ideal methodology to learn shell scripting and sets the book apart from general scripting titles. Promoting good programming practices with real-world scripts, which are readable, extendable, and easy to debug, this book will be an essential asset to any Linux user. Summary This comprehensive and authoritative book about bash programming is a must-have book for any Linux/Unix professionals. It is both a tutorial and a reference on shell scripting with Bash.It assumes no previous knowledge of scripting or programming, but progresses rapidly toward an intermediate/advanced level of instruction . . . all the while sneaking in little nuggets of UNIX® wisdom and lore. It serves as a textbook, a manual for self-study, and as a reference and source of knowledge on shell scripting techniques. The exercises and heavily-commented examples invite active

reader participation, under the premise that the only way to really learn scripting is to write scripts. This book is suitable for classroom use as a general introduction to programming concepts. Notes: this book has been splited into Volume 1 and Volume 2.Volume 1 contains all content except appdendixes. (https://www.amazon.com/dp/170640039X) Volume 2 contains all appdendixes. (https://www.amazon.com/dp/1707048916) Table of Contents of Volume 1 Part 1. Introduction 1. Shell Programming! 2. Starting Off With a Sha-Bang Part 2. Basics 3. Special Characters 4. Introduction to Variables and Parameters 5. Quoting 6. Exit and Exit Status 7. Tests 8. Operations and Related Topics Part 3. Beyond the Basics 9. Another Look at Variables 10. Manipulating Variables 11. Loops and Branches 12. Command Substitution 13. Arithmetic Expansion 14. Recess Time Part 4. Commands 15. Internal Commands and Builtins 16. External Filters, Programs and Commands 17. System and Administrative Commands Part 5. Advanced Topics 18. Regular Expressions 19. Here Documents 20. I/O Redirection 21. Subshells 22. Restricted Shells 23. Process Substitution 24. Functions 25. Aliases 26. List Constructs 27. Arrays 28. Indirect References 29. /dev and /proc 30. Network Programming 31. Of Zeros and Nulls 32. Debugging 33. Options 34. Gotchas 35. Scripting With Style 36. Miscellany 37. Bash, versions 2, 3, and 4 38. Endnotes 38.1. Author's Note 38.2. About the Author 38.3. Where to Go For Help 38.4. Tools Used to Produce This Book 38.5. Credits 38.6. Disclaimer Bibliography

A compendium of shell scripting recipes that can immediately be used, adjusted, and applied The shell is the primary way of communicating with the Unix and Linux systems, providing a direct way to program by automating simple-to-intermediate tasks. With this book, Linux expert Steve Parker shares a collection of shell scripting recipes that can be used as is or easily modified for a variety of environments or situations. The book covers shell programming, with a focus on Linux and the Bash shell; it provides credible, real-world relevance, as well as providing the flexible tools to get started immediately. Shares a collection of helpful shell scripting recipes that can immediately be used for various of real-world challenges Features recipes for system tools, shell features, and systems administration Provides a host of plug and play recipes for to immediately apply and easily modify so the wheel doesn't have to be reinvented with each challenge faced Come out of your shell and dive into this collection of tried and tested shell scripting recipes that you can start using right away!

Shell scripting and programming to automate your daily tedious tasks About This Video Benefit from the real-time scripts section Learn with the help of a comprehensive course focused on real-life examples In Detail This course is designed for you if you have experience in Linux and want to develop or enhance your Linux shell scripting skills. Most of the scripts practiced in this training are based on real-life examples. While the hobbyists will find it fun work through the examples, these are essential skills for aspiring Linux system admins, and for experienced Linux engineers, these are skills to be consolidated. Lab setup Shell scripting basics Scripting standards Basic shell scripts Real-life scripts Additional resources Downloading the example code for this course: You can download the example code files for this course on GitHub at the following link: https://github.com/PacktPublishing/A-Complete-Course-on-Linux-Bash-Shell-Scripting-with-Real-Life-Examples . If you require support please email: customercare@packt.com.

The complete course to master Bash shell scripting for Linux About This Video Learn how to write well documented, modular, efficient and complex shell scripts, automate daily routines, basic programming concepts such as loops, commands and statements How to effectively write command line processing, process management and even manipulate command-line functions. Shell Scripting course has been specifically designed to teach you how to use BASH to shave hours from your coding practice. In Detail Want to feel like an awesome spy hacker similar to the one in the movies that opens a command line terminal and manages to complete complicated tasks using a few simple codes? Well, this can be a reality using BASH.A huge chunk of a programmer's time is wasted in trying to repeat codes and processes, especially when it comes to working with UNIX or Linux. The constant commands that are required to program or create systems is a tedious and long process.Well, here's how you can eliminate that and save a whole buncha time - BASHBourne Again Shell, more popularly known as BASH is a UNIX/Linux shell and a command line interpreter that runs commands from a standard input file. This shell comes with a nifty feature that allows you to reduce the amount of commands that you have to call personally by automating them.

The only book available that covers the powerful Bash shell and associated tools that are essential to any Linux programming professional.

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Pro Bash Programming teaches you how to effectively utilize the Bash shell in your programming. The Bash shell is a complete programming language, not merely a glue to combine external Linux commands. By taking full advantage of Shell internals, Shell programs can perform as snappily as utilities written in C or other compiled languages. And you will see how, without assuming Unix lore, you can write professional Bash 4.3 programs through standard programming techniques. This second edition has updated for Bash 4.3, and many scripts have been rewritten to make them more

idiomatically Bash, taking better advantage of features specific to Bash. It is easy to read, understand, and will teach you how to get to grips with Bash programming without drowning you in pages and pages of syntax. Using this book you will be able to use the shell efficiently, make scripts run faster using expansion and external commands, and understand how to overcome many common mistakes that cause scripts to fail. This book is perfect for all beginning Linux and Unix system administrators who want to be in full control of their systems, and really get to grips with Bash programming.
This book is written in a Cookbook style and it offers learning through recipes with examples and illustrations. Each recipe contains step-by-step instructions about everything necessary to execute a particular task. The book is designed so that you can read it from start to end for beginners, or just open up any chapter and start following the recipes as a reference for advanced users.If you are a beginner or an intermediate user who wants to master the skill of quickly writing scripts to perform various tasks without reading the entire manual, this book is for you. You can start writing scripts and one-liners by simply looking at the similar recipe and its descriptions without any working knowledge of shell scripting or Linux. Intermediate/advanced users as well as system administrators/ developers and programmers can use this book as a reference when they face problems while coding.
System administrators need libraries of solutions that are ingenious but understandable. They don't want to reinvent the wheel, but they don't want to reinvent filesystem management either! Expert Shell Scripting is the ultimate resource for all working Linux, Unix, and OS X system administrators who would like to have short, succinct, and powerful shell implementations of tricky system scripting tasks. Automating small to medium system management tasks Analyzing system data and editing configuration files Scripting Linux, Unix, and OS X applications using bash, ksh, et al.
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.
Master the complexities of Bash shell scripting and unlock the power of shell for your enterprise About This Book 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 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. 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 In Detail 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. Style and approach The book will capture your attention and keep you engaged with the simplicity and clarity of each explanation. Every step is accompanied by screenshots so you can cross-check the results before moving on. Downloading the e ...
Advance your understanding of the Linux command line with this invaluable resource Linux Command Line and Shell Scripting Bible, 4th Edition is the newest installment in the indispensable series known to Linux developers all over the world. Packed with concrete strategies and practical tips, the latest edition includes brand-new content covering: Understanding the Shell Writing Simple Script Utilities Producing Database, Web & Email Scripts Creating Fun Little Shell Scripts Written by accomplished Linux professionals Christine Bresnahan and Richard Blum, Linux Command Line

and Shell Scripting Bible, 4th Edition teaches readers the fundamentals and advanced topics necessary for a comprehensive understanding of shell scripting in Linux. The book is filled with real-world examples and usable scripts, helping readers navigate the challenging Linux environment with ease and convenience. The book is perfect for anyone who uses Linux at home or in the office and will quickly find a place on every Linux enthusiast’s bookshelf.

CD-ROM contains: all source code and datafiles from the book.

Describes how to create and customize shell scrips for UNIX.

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.

Shell Scripting Made Easy If you want to learn how to write shell scripts like a pro, solve real-world problems, or automate repetitive and complex tasks, read on. Hello. My name is Jason Cannon and I'm the author of Linux for Beginners, Python Programming for Beginners, and an instructor to thousands of satisfied students. I started my IT career in the late 1990's as a Unix and Linux System Engineer and I'll be sharing my real-world shell scripting and bash programming experience with you throughout this book. By the end of this book you will be able to create shell scripts with ease. You'll learn how to take tedious and repetitive tasks and turn them into programs that will save you time and simplify your life on Linux, Unix, or MAC systems. Here is what you will get and learn by reading this Shell Scripting book: A step-by-step process of writing shell scripts that solve real-world problems. The #1 thing you must do every time you create a shell script. How to quickly find and fix the most shell scripting errors. How to accept input from a user and then make decisions on that input. How to accept and process command line arguments. What special variables are available, how to use them in your shell scripts, and when to do so. A shell script creation check list -- You'll never have to guess what to include in each of your shell scripts again. Just use this simple check list. A shell script template (boilerplate). Use this format for each of your shell scripts. It shows exactly what to include and where everything goes. Eliminate guesswork! Practice exercises with solutions so you can start using what you learn right away. Real-world examples of shell scripts from my personal collection. A download that contains the scripts used in the book and lessons. You'll be able to look at and experiment with everything you're learning. Learn to Program Using Any Shell Scirpting Language What you learn in this book can be applied to any shell, however the focus is on the bash shell and you'll learn some really advanced bash features. Again, whether you're using bash, bourne (sh), KornShell (ksh), C shell (csh), Z shell (zsh), or even the tcsh shell, you'll be able to put what you learn in this book to good use. Perfect for Linux, Unix, Mac and More! Also, you'll be able to use these scripts on any Linux environment including Ubuntu, Debian, Linux Mint, RedHat, Fedora, OpenSUSE, Slackware, Kali Linux and more. You're scripts will even run on other operating systems such as Apple's Mac OS X, Oracle's Solaris, IBM's AIX, HP's HP-UX, FreeBSD, NetBSD, and OpenBSD. Scroll up, click the Buy Now With 1 Click button and get started learning Linux today!

Unleash the power of shell scripts to solve real-world problems by breaking through the practice of writing tedious code About This Book Learn how to efficiently and effectively build shell scripts and develop advanced applications with this handy book Develop high quality and efficient solutions by writing professional and real-world scripts, and debug scripts by checking and shell tracing A step-by-step tutorial to automate routine tasks by developing scripts from a basic level to very advanced functionality Who This Book Is For This book is ideal for those who are proficient at working with Linux and who want to learn about shell scripting to improve their efficiency and practical skills. By the end of this book, you will be able to confidently use your own shell scripts in the real world. What You Will Learn Familiarize yourself with the various text filtering tools available in Linux Combine the fundamental text and file processing commands to process data and automate repetitive tasks Understand expressions and variables and how to use them practically Automate decision-making and save a lot of time and effort of revisiting code Get to grips with advanced functionality such as using traps and signals and using dialogs to develop screens Start up a system and customize a Linux system Take an in-depth look at regular expressions and pattern matching to understand the capabilities of scripting In Detail Linux is the one of the most powerful and universally adopted OSes. Shell is a program that gives the user direct interaction with the operating system. Scripts are collections of commands that are stored in a file. The shell can read this file and act on the commands as if they were typed on the keyboard. Shell scripting is used to automate day-to-day administration, and for testing or product development tasks. This book covers Bash, GNU Bourne Again SHell, preparing you to work in the exciting world of Linux shell scripting. We start with an introduction to the Shell environment and explain basic commands used in Shell. Next we move on to check, kill, and control the execution of processes in Linux OS. Further, we teach you about the filter tools available in Linux and explain standard output and standard errors devices. Then we will ensure you understand Shell's interpretation of commands and get a firmer grasp so you use them in practice. Next, you'll experience some real-world essentials such as debugging and perform Shell arithmetic fluently. Then you'll take a step ahead and learn new and advanced topics in Shell scripting, such as starting up a system and customizing a Linux system. Finally, you'll get to understand the capabilities of scripting and learn about Grep, Stream Editor, and Awk. Style and approach This practical book will go from the very basics of shell scripting to complex, customized

automation. The idea behind this book is to be as practical as possible and give you the look and feel of what real-world scripting is like.

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