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# Mastering **UNIX** Shell Scripting

Randal K. Michael

**SECOND EDITION**

Bash, Bourne, and Korn  
Shell Scripting for Programmers,  
System Administrators, and UNIX Gurus

# Mastering Unix Shell Scripting

**Sanjiv Gupta**



## **Mastering Unix Shell Scripting:**

*Mastering Unix Shell Scripting* Randal K. Michael, 2011-09-14 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 *Mastering Unix Shell Scripting* Randal K.

Michael, 2011-02-11 *Mastering Unix Shell Scripting, 2nd Ed* Randal K. Michael, 2008-07 Market\_Desc Computer science professionals serious shell scripters and UNIX gurus who need to understand how the different shell environments work and how to automate specific tasks that are repetitive or reoccurring Students Special Features Scripting books as a whole have very respectable Bookscan weekly sell through averaging 50 copies per week for the top 5 2e includes 50% modified material and 15% new material Linux is greatly expanded in this new edition as the BASH shell is covered with complete end to end shell scripting examples Covers top four flavors of UNIX AIX HP UX Linux and Solaris Designed to teach people how to solve real world problems not just a shell scripting book Revision includes a solution in KORN shell and BASH shell for most of the shell scripts and two new chapters to meet the needs of applications programmers for working w record files in preparation for government audits Working with Record Files and Those Pesky Sarbanes Oxley SOX Audits A test bank and end of chapter questions provide value add for college courses About The Book The book is broken down into three sections to better cover material by user group Part one begins with the basics of shell scripting Part two is targeted at System Analysts Program Testers and Programmer Analysts Two new chapters have been added Working with Record Files and Those Pesky Sarbanes Oxley SOX Audits Application programmers have specific needs for working with record files and need scripts to meet the needs of auditors Part three is specifically targeted at Systems Administrators and the UNIX guru Mastering Linux Shell Scripting, Mokhtar Ebrahim, Andrew Mallett, 2018-04-19 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

**Mastering Linux Shell Scripting** Mokhtar Ebrahim,Andrew Mallett,2018 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

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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 is 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

*Mastering Unix Internals and Shell Scripting* Mr. Bhupesh Deka, Dr. Srinivas Prasad, Ms. Bindu Agarwalla, 2023-11-02 The book Mastering UNIX Internals and Shell Scripting is an invaluable resource for students of Computer Science Engineering CSE Information Technology IT and MCA aiming to gain a comprehensive understanding of UNIX operating systems and shell scripting This meticulously crafted guide delves into the core concepts of UNIX including its history characteristics layered architecture different flavors and the intricacies of the RISC CISC architecture It then progresses to cover essential topics like file systems basic commands file and directory management working with filters processes networking and more What sets this book apart is its unique blend of industry and academic perspectives With numerous exercises and multiple choice questions provided in each chapter it encourages hands on learning and self assessment The intent behind this book is to empower students to excel in both academic settings and real world IT environments Its comprehensive coverage and practical approach make it an essential tool for aspiring IT professionals

**Linux Command Line and Shell Scripting Bible** Richard Blum, Christine Bresnahan, 2020-12-08 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.

[Ksh and Awk Scripting](#) Sanjiv Gupta, 2013-09-15 Learn to harness the programming power that comes standard with all Unix and Linux systems including Apple's OSX. This guide encourages hands-on experimentation by including actual scripts that feature the Korn shell, ksh, awk, and sed.

*Bash Cookbook* Carl Albing, 2007 Bash Cookbook unlocks the secrets of bash, the most widely used Unix shell. Inside you'll find complete working scripts that let you customize and harness the power of your operating system along with shortcuts to help you work more quickly and efficiently. Whether you're an administrator, a software developer, or an end user, mastering the shell is essential for anyone working with Linux, Mac OS X, or any Unix system. This book demonstrates shell scripting the way Unix masters practice the craft.

[The Ultimate Linux Shell Scripting Guide](#) Donald A. Tevault, 2024-10-18 Master Linux Shells: Your Complete Guide to Practical Success with Bash, Zsh, PowerShell. Key Features: Develop portable scripts using Bash, Zsh, and PowerShell that work seamlessly across Linux, macOS, and Unix systems. Progress seamlessly through chapters with clear concepts, practical examples, and hands-on labs for skill development. Build real-world Linux administration scripts enhancing your troubleshooting and management skills. Book Description: Dive into the world of Linux shell scripting with this hands-on guide. If you're comfortable using the command line on Unix or Linux but haven't fully explored Bash, this book is for you. It's designed for programmers familiar with languages like Python, JavaScript, or PHP who want to make the most of shell scripting. This isn't just another theory-heavy book; you'll learn by doing. Each chapter builds on the last, taking you from shell basics to writing practical scripts that solve real-world problems. With nearly a hundred interactive labs, you'll gain hands-on experience in automation, system administration, and troubleshooting. While Bash is the primary focus, you'll also get a look at Z Shell and PowerShell, expanding your skills and adaptability. From mastering command redirection and pipelines to writing scripts that work across different Unix-like systems, this book equips you for real-world Linux challenges. By the end, you'll be equipped to write efficient shell scripts that streamline your workflow and improve system automation. What you will learn: Grasp the concept of shells and explore their diverse types for varied system interactions. Master redirection, pipes, and compound commands for efficient shell operations. Leverage text stream filters within scripts for dynamic data manipulation. Harness functions and build libraries to create modular and reusable shell scripts. Explore the basic programming constructs that apply to all programming languages. Engineer portable shell scripts ensuring compatibility across diverse platforms beyond Linux. Who this book is for: This book is for programmers who use the command line on Unix and Linux servers already but don't write primarily in Bash. This book is ideal for programmers who've been using a scripting language such as Python, JavaScript, or PHP and would like to understand and use Bash more effectively. It's also great for beginning

programmers who want to learn programming concepts      **The Ksh, Awk, and Sed Script Collection** Steve Myers, 2013-09-15 Learn to harness the programming power that comes standard with all unix and linux systems including Apple's OSX This guide encourages hands on experimentation by including actual scripts that feature the korn shell ksh awk and sed      **Bash Quick Start Guide** Tom Ryder, 2018-09-28 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      **Mastering Tools, Taming Daemons** Dean Brock, 1995 If you are trying to become or just appear to be a Unix wizard if you use Unix and no longer get lost making your way through the system if you can create directories edit files grep occasionally if you'd sometimes like to write a simple shell script or even if you can write a C program then this book is for you Mastering Tools Taming Daemons is unique in its broad and concise coverage of the Unix system including utilities administration software development networking and internal operation This book will help you do many things and solve many problems      **Linux Journal**, 2004-07



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## **Table of Contents Mastering Unix Shell Scripting**

1. Understanding the eBook Mastering Unix Shell Scripting
  - The Rise of Digital Reading Mastering Unix Shell Scripting
  - Advantages of eBooks Over Traditional Books
2. Identifying Mastering Unix Shell Scripting
  - Exploring Different Genres
  - Considering Fiction vs. Non-Fiction
  - Determining Your Reading Goals
3. Choosing the Right eBook Platform
  - Popular eBook Platforms
  - Features to Look for in an Mastering Unix Shell Scripting
  - User-Friendly Interface
4. Exploring eBook Recommendations from Mastering Unix Shell Scripting
  - Personalized Recommendations
  - Mastering Unix Shell Scripting User Reviews and Ratings
  - Mastering Unix Shell Scripting and Bestseller Lists

5. Accessing Mastering Unix Shell Scripting Free and Paid eBooks
  - Mastering Unix Shell Scripting Public Domain eBooks
  - Mastering Unix Shell Scripting eBook Subscription Services
  - Mastering Unix Shell Scripting Budget-Friendly Options
6. Navigating Mastering Unix Shell Scripting eBook Formats
  - ePub, PDF, MOBI, and More
  - Mastering Unix Shell Scripting Compatibility with Devices
  - Mastering Unix Shell Scripting Enhanced eBook Features
7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Mastering Unix Shell Scripting
  - Highlighting and Note-Taking Mastering Unix Shell Scripting
  - Interactive Elements Mastering Unix Shell Scripting
8. Staying Engaged with Mastering Unix Shell Scripting
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Mastering Unix Shell Scripting
9. Balancing eBooks and Physical Books Mastering Unix Shell Scripting
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Mastering Unix Shell Scripting
10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
11. Cultivating a Reading Routine Mastering Unix Shell Scripting
  - Setting Reading Goals Mastering Unix Shell Scripting
  - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Mastering Unix Shell Scripting
  - Fact-Checking eBook Content of Mastering Unix Shell Scripting
  - Distinguishing Credible Sources
13. Promoting Lifelong Learning

- Utilizing eBooks for Skill Development
- Exploring Educational eBooks

#### 14. Embracing eBook Trends

- Integration of Multimedia Elements
- Interactive and Gamified eBooks

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