



# 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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Roderick W. Smith,2009-09-17 Authoritative coverage on the first Linux exam revision in more than five years The Linux exam is an entry level Linux certification exam administered by CompTIA that covers your knowledge of basic Linux system administration skills With this being the first update to the exam in more than five years you ll need to be prepared on the most up to date information on all Linux administration topics Boasting clear and concise material practical examples and insights drawn from real world experience this study guide is an indispensable resource Completely updated for the newest Linux exam the first exam revision in more than five years Thorough coverage on key exam topics including installation and configuration system maintenance and operations application and services networking and security Packed with chapter review questions real world scenarios hands on exercises and a glossary of the most important terms you need to know CD features two practice exams electronic flashcards interactive chapter review questions and the book in a searchable PDF Written by a highly respected and recognized author in the field of Linux this study guide prepares you for the completely new Linux exam [Mastering Unix/ Linux/ Solaris/ Shell Scripting](#) , [Classic Shell Scripting](#) Arnold

Robbins,Nelson H. F. Beebe,2005-05-16 An useful skill for Unix users and system administrators shell scripts let you easily crunch data and automate repetitive tasks offering a way to quickly harness the full power of any Unix system his book provides the tips tricks and organized knowledge needed to create excellent scripts as well as warnings of traps [Learning the bash Shell](#) Cameron Newham,2005-03-29 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

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*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

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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

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administration and programming worldsUse the interactive Bash command line effectivelyGet to grips with the structure of a Bash command lineMaster pattern matching and transforming text with BashFilter and redirect program input and outputWrite shell scripts safely and effectivelyWho 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

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### **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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