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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

Steve Myers



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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

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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

CompTIA Linux+ Study Guide 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

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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/ Linux/ Solaris/ Shell Scripting* , **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 FeaturesDemystify the Bash command lineWrite shell scripts safely and effectivelySpeed up and automate your daily workBook 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 learnUnderstand where the Bash shell fits in the system 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 [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 short cuts 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 **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 [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

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 Linux Journal ,2004-07 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 DescriptionDive 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

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