

Brett Neutreon

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# Mastering Linux Shell Scripting

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A Practical Guide

# Mastering Linux Shell Scripting

**Arman Danesh**



## **Mastering Linux Shell Scripting:**

Mastering Linux Shell Scripting Andrew Mallett, 2015-12-24 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

*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 screenshots so you can cross check the results before moving on Downloading the e

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commands and filters Bash Shell scripting the file system networking and Internet use and kernel system calls It presents many examples and complete programs ready to run on your Linux system Each chapter includes a summary and exercises of varying degrees of difficulty Web ResourceThe companion website at <http://ml.sofpower.com> offers a host of ancillary materials Along with links to numerous resources it includes appendices on SSH and SFTP VIM text editing with Vi and the emacs editor The site also provides a complete example code package for download Master the Linux Operating System ToolboxThis book enables you to leverage the capabilities and power of the Linux system more effectively Going beyond this it can help you write programs at the shell and C levels encouraging you to build new custom tools for applications and RandD

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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

**Linux Command Line** David A Williams, 2019-12-05 Linux is growing day by day not only on servers but in desktop environments too We designed this book for beginners to intermediate experts on shell scripting It is for Linux administrators and users today looking for more and more practical examples along with more theoretical knowledge This book will take readers through practical examples for clarity of each of the concepts by going through each line of the script There are lots of examples that anyone can read and execute on their system and get to see the execution of scripts You don't have to be an expert Most administrators are looking for more automation and run complex queries to save time and to increase productivity Shell is the only way to get accomplished at this This book will take administrators from the graphical interface to the command line interface and explain the concepts of how things work on the operating system behind the graphics This book is written by someone who has had practical experience on scripting for over 20 years Upon completion you will be able to write your own script by using basic to complex logic This book will cover all the areas that fall under scripting including Usage of statements You will learn what operators are and how to perform arithmetic operations The power of loops and how to use loops in combinations to create magic within the system What functions are and how to use them in different modes How signals and traps can automate file management and other administrative tasks A guide on how to debug your system with multiple options It explains every concept with practical examples Users can keep this handbook as a quick reference guide to use as a future resource You will be confident about how to create a new script and understand any script or change it to whatever script is needed which is the core power of any system administrator So what are you waiting for Now is the time to get started

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