

Cliff Rignall, Sarathy Lakshminaray,
Shantanu Dasgupta

Linux Shell Scripting Cookbook

Third Edition

Over 150 incredibly effective recipes to solve real-world problems, automate tedious tasks, and take advantage of Linux's newest features.



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Linux Shell Scripting Cookbook Lakshman Sarath

James H. Baxter



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Linux Shell Scripting Cookbook, 2nd Edition Shantanu Tushar, Sarath Lakshman, 2014-10-05 Don't neglect the shell this book will empower you to use simple commands to perform complex tasks Whether you're a casual or advanced Linux user the cookbook approach makes it all so brilliantly accessible and above all useful Overview Master the art of crafting one liner command sequence to perform text processing digging data from files backups to sysadmin tools and a lot more And if powerful text processing isn't enough see how to make your scripts interact with the web services like Twitter Gmail Explores the possibilities with the shell in a simple and elegant way you will see how to effectively solve problems in your day to day life In Detail The shell remains one of the most powerful tools on a computer system yet a large number of users are unaware of how much one can accomplish with it Using a combination of simple commands we will see how to solve complex problems in day to day computer usage Linux Shell Scripting Cookbook Second Edition will take you through useful real world recipes designed to make your daily life easy when working with the shell The book shows the reader how to effectively use the shell to accomplish complex tasks with ease The book discusses basics of using the shell general commands and proceeds to show the reader how to use them to perform complex tasks with ease Starting with the basics of the shell we will learn simple commands with their usages allowing us to perform operations on files of different kind The book then proceeds to explain text processing web interaction and concludes with backups monitoring and other sysadmin tasks Linux Shell Scripting Cookbook Second Edition serves as an excellent guide to solving day to day problems using the shell and few powerful commands together to create solutions What you will learn from this book Explore a variety of regular usage tasks and how it can be made faster using shell command Write shell scripts that can dig data from web and process it with few lines of code Use different kinds of tools together to create solutions Interact with simple web API from scripts Perform and automate tasks such as automating backups and restore with archiving tools Create and maintain file folder archives compression formats and encrypting techniques with shell Set up Ethernet and Wireless LAN with the shell script Monitor different activities on the network using logging techniques Approach 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 Who this book is written for This book is both for the casual GNU Linux users who want to do amazing things with the shell and for advanced users looking for ways to make their lives with the shell more productive 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 Linux Shell Scripting Cookbook Clif Flynt, Sarath Lakshman, Shantanu Tushar, 2017-05-29 Do

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Linux Shell Scripting Cookbook, Third Edition Clif Flynt, Sarath Lakshman, Shantanu Tushar, 2017-05-29 Do amazing things with the shell About This Book Become an expert in creating powerful shell scripts and explore the full possibilities of the shell Automate any administrative task you could imagine with shell scripts Packed with easy to follow recipes on new features on Linux particularly Debian based to help you accomplish even the most complex tasks with ease Who This Book Is For If you are a beginner or an intermediate Linux user who wants to

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Style and approachThis book will take you through useful real world recipes designed to make your daily life easier when working with the shell

Linux Shell Scripting Cookbook Shantanu Tushar,Sarath Lakshman,2013 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

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[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

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Raspberry Pi Sensors Rushi Gajjar,2015-04-29 This book is perfect for hardware enthusiasts who want to develop amazing projects using Raspberry Pi Some knowledge and experience working with Linux C and Python is a plus but once you re set up to go you ll be ready to push the creative capabilities of your Raspberry Pi even further

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[Learning Linux Shell Scripting \(2017\)](#). Sarath Lakshman,2017

Linux Shell Scripting Solutions Sarath Lakshman,2016 The shell remains one of the most powerful tools on a computer system yet a large number of users are unaware of how much can be accomplished with it Using a combination of simple commands you will see how to solve complex problems in day to day computer usage This video will take you through useful real world examples to make your daily life easy when working with the shell It shows you how to effectively use the shell to accomplish complex tasks with ease Starting with the basics of the shell you will learn simple commands and their usages allowing you to perform

operations on different kinds of files We then explain text processing and web interaction and conclude with backups monitoring and other sysadmin tasks This is an excellent guide on solving day to day problems using the shell and a few powerful commands together to create solutions Resource description page

Linux Shell Scripting Cookbook, Second Edition Shantanu Tushar, Sarath Lakshman, 2015-03-25 The shell remains one of the most powerful tools on a computer system yet a large number of users are unaware of how much one can accomplish with it Using a combination of simple commands we will see how to solve complex problems in day to day computer usage Linux Shell Scripting Cookbook Second Edition will take you through useful real world recipes designed to make your daily life easy when working with the shell The book shows the reader how to effectively use the shell to accomplish complex tasks with ease The book discusses basics of using the shell general commands and proceeds to show the reader how to use them to perform complex tasks with ease Starting with the basics of the shell we will learn simple commands with their usages allowing us to perform operations on files of different kind The book then proceeds to explain text processing web interaction and concludes with backups monitoring and other sysadmin tasks Linux Shell Scripting Cookbook Second Edition serves as an excellent guide to solving day to day problems using the shell and few powerful commands together to create solutions Approach This book is written in 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 Who this book is for This book is both for the casual GNU Linux users who want to do amazing things with the shell and for advanced users looking for ways to make their lives with the shell more productive 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

Bash Quick Start Guide Tom Ryder, 2018-09-28 Learn how to write shell scripts 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

[bash Cookbook](#) Carl Albing, JP Vossen, Cameron Newham, 2007-08-08 The key to mastering any Unix system especially Linux and Mac OS X is a thorough knowledge of shell scripting Scripting is a way to harness and customize the power of any Unix system and it's an essential skill for any Unix users including system administrators and professional OS X developers But beneath this simple promise lies a treacherous ocean of variations in Unix commands and standards bash Cookbook teaches shell scripting the way Unix masters practice the craft It presents a variety of recipes and tricks for all levels of shell programmers so that anyone can become a proficient user of the most common Unix shell the bash shell and cygwin or other popular Unix emulation packages Packed full of useful scripts along with examples that explain how to create better scripts this new cookbook gives professionals and power users everything they need to automate routine tasks and enable them to truly manage their systems rather than have their systems manage them

[Mastering Linux Shell Scripting - Second Edition](#) 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 Andrew Mallett,2015 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

Linux Shell Scripting Essentials Sinny Kumari,2015-11-19 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

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Linux Shell Scripting Cookbook Lakshman Sarath Introduction

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