





Quick answers to common problems

# Linux Shell Scripting Cookbook

*Second Edition*

Over 110 practical recipes to solve real-world shell problems,  
guaranteed to make you wonder how you ever lived without them

Shantanu Tushar  
Sarath Lakshman

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# Linux Shell Scripting Cookbook Second Edition

## Lakshman Sarath

**Carl Albing**



## **Linux Shell Scripting Cookbook Second Edition Lakshman Sarath:**

*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

*Linux Shell Scripting Cookbook* Shantanu Tushar, 2013-05-21 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**, 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 Learning Embedded Linux Using the Yocto Project Alexandru Vaduva,2015-06-30 This book offers readers an idea of what embedded Linux software and hardware architecture looks like cross compiling and also presents information about the bootloader and how it can be built for a specific board This book will go through Linux kernel features and source code present information on how to build a kernel source modules and the Linux root filesystem You ll be given an overview of the available Yocto Project components how to set up Yocto Project Eclipse IDE and how to use tools such as Wic and Swabber that are still under development It will present the meta realtime layer and the newly created meta cgl layer its purpose and how it can add value to poky Learning Linux Shell Scripting Ganesh Sanjiv Naik,2015-12-31 Unleash the power of shell scripts to solve real world problems by breaking through the practice of writing tedious code About This Book Learn how to efficiently and effectively build shell scripts and develop advanced applications with this handy book Develop high quality and efficient solutions by writing professional and real world scripts and debug scripts by checking and shell tracing A step by step tutorial to automate routine tasks by developing scripts from a basic level to very advanced functionality Who This Book Is For This book is ideal for those who are proficient at working with Linux and who want to learn about shell scripting to improve their efficiency and practical skills By the end of this book you will be able to confidently use your own shell scripts in the real world What You Will Learn Familiarize yourself with the various text filtering tools available in Linux Combine the fundamental text and file processing commands to process data and automate repetitive tasks Understand expressions and variables and how to use them practically Automate decision making and save a lot of time and effort of revisiting code Get to grips with advanced functionality such as using traps and signals and using dialogs to develop screens Start up a system and customize a Linux system Take an in depth look at regular expressions and pattern matching to understand the capabilities of scripting In Detail Linux is the one of the most powerful and universally adopted OSes Shell is a program that gives the user direct interaction with the operating system Scripts are collections of commands that are stored in a file The shell can read this file and act on the commands as if they were typed on the keyboard Shell scripting is used to automate day to day administration and for testing or product development tasks This book covers Bash GNU Bourne Again SHell preparing you to work in the exciting world of Linux shell scripting We start with an introduction to the Shell environment and explain basic commands used in Shell Next we move on to check kill and control the execution of processes in Linux OS Further we teach you about the filter tools available in Linux and explain standard output and standard errors devices Then we will ensure you understand Shell s interpretation of commands and get a firmer grasp so you use them in practice Next you ll experience some real world essentials such as debugging and perform Shell arithmetic fluently Then you ll take a step ahead and learn new and advanced topics in Shell scripting such as starting up a system and customizing a Linux system Finally you ll get to

understand the capabilities of scripting and learn about Grep Stream Editor and Awk Style and approach This practical book will go from the very basics of shell scripting to complex customized automation The idea behind this book is to be as practical as possible and give you the look and feel of what real world scripting is like      **Vagrant Virtual Development Environment Cookbook** Chad Thompson,2015-02-26 If you are a software developer or administrator who wishes to create simple reusable environments using Vagrant this book is the perfect choice for you Whether you are a system administrator with extensive experience in virtualization or a developer wishing to create development scripts for cloud deployment you will find easy to follow recipes and techniques in this book that will allow you to create robust and reproducible virtual environments      [Embedded Linux Projects Using Yocto Project Cookbook](#) Alex González,2015-03-30 If you are an embedded developer learning about embedded Linux with some experience with the Yocto project this book is the ideal way to become proficient and broaden your knowledge with examples that are immediately applicable to your embedded developments Experienced embedded Yocto developers will find new insight into working methodologies and ARM specific development competence      **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      [Linux Mint Essentials](#) Jay LaCroix,2014-05-22 A task oriented look at Linux Mint using actual real world examples to stimulate learning Each topic is presented in an easy to follow order with hands on activities to reinforce the content If you are starting out with Linux from a different platform or are well versed with Linux Mint and want a guide that shows you how to exploit certain functionality this book is for you No previous Linux experience is assumed      **Linux Shell Scripting Cookbook** Sarath Lakshman,2011-01 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 beginner s 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 man pages 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      **Linux Shell Scripting Cookbook, Third Edition** Clif Flynt,Sarath Lakshman,Shantanu Tushar,2017-05-29 Do amazing things with the shellAbout 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 easeWho This Book Is ForIf you are a beginner or an intermediate Linux user

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**Style and approach**This 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,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 scri

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 beginner s 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

**Learning Linux Shell Scripting (2017).** Sarath Lakshman,2017      **bash Cookbook** Carl Albing,JP Vossen,Cameron Newham,2007-05-24

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

**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 [Pro Bash Programming, Second Edition](#) Chris Johnson,Jayant Varma,2015-06-19 Pro Bash Programming teaches you how to effectively utilize the Bash shell in your programming The Bash shell is a complete programming language not merely a glue to combine external Linux commands By taking full advantage of Shell internals Shell programs can perform as snappily as utilities written in C or other compiled languages And you will see how without assuming Unix lore you can write professional Bash 4.3 programs through standard programming techniques This second edition has updated for Bash 4.3 and many scripts have been rewritten to make them more idiomatically Bash taking better advantage of features specific to Bash It is easy to read understand and will teach you how to get to grips with Bash programming without drowning you in pages and pages of syntax Using this book you will be able to use the shell efficiently make scripts run faster using expansion and external commands and understand how to overcome many common mistakes that cause scripts to fail This book is perfect for all beginning Linux and Unix system administrators who want to be in full control of their systems and really get to grips with Bash programming **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 **Learning Linux Shell Scripting** Ganesh Sanjiv Naik,2018-05-21 Break through the practice of writing tedious code with shell scripts Key Features Learn to impeccably build shell scripts and develop advanced applications Create smart solutions by writing and debugging scripts A step by step tutorial to automate routine tasks by developing scripts Book Description Linux is the most powerful and universally adopted OS Shell is a program that gives the user direct interaction with the operating system Scripts are collections of commands that are stored in a file The shell reads this file and acts on commands as if they were typed on the keyboard Learning Linux Shell Scripting covers Bash GNU Bourne Again Shell preparing you to work in the exciting world of Linux shell scripting CentOS is a popular rpm based stable and secured Linux distribution Therefore we have used CentOS distribution instead of Ubuntu distribution Linux Shell Scripting is independent of Linux distributions but we have covered both types of distros We start with an introduction to the Shell environment and basic commands used Next we explore process management in Linux OS real world essentials such as debugging and perform Shell arithmetic fluently You ll then take a step ahead and learn new and advanced topics in Shell scripting such as decision making starting up a system and customizing a Linux environment You will also learn about grep stream editor and AWK which are very powerful text filters and editors Finally you ll get to grips with taking backup using other language scripts in Shell Scripts as well as automating database administration tasks

for MySQL and Oracle By the end of this book you will be able to confidently use your own shell scripts in the real world What you will learn Familiarize yourself with the various text filtering tools available in Linux Understand expressions and variables and how to use them practically Automate decision making and save a lot of time and effort of revisiting code Get to grips with advanced functionality such as using traps dialogs to develop screens Database administration such as MySQL or Oracle Start up a system and customize a Linux system Taking backup of local or remote data or important files Use existing other language scripts such as Python Perl Ruby in Shell Scripts Who this book is for Learning Linux Shell Scripting is ideal for those who are proficient at working with Linux and want to learn about shell scripting to improve their efficiency and practical skills

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