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You can't perform that action at this time. Do amazing things with the shell!About This BookBecome an expert in creating powerful shell scripts and explore the full possibilities of the shellAutomate any administrative task you could imagine, with shell scriptsPacked 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 who wants to master the skill of quickly writing scripts and automate tasks without reading the entire man pages, then this book is for you. You can start writing scripts and one-liners by simply looking at the relevant recipe and its descriptions without any working knowledge of shell scripting or Linux. Intermediate / advanced users, system administrators / developers, and programmers can use this book as a reference when they face problems while coding.What You Will LearnInteract with websites via scriptsWrite shell scripts to mine and process data from the WebAutomate system backups and other repetitive tasks with cronatbCreate, compress, and encrypt archives of your critical data.Configure and monitor Ethernet and wireless networksMonitor and log network and system activityTune your system for optimal performanceImprove your system's securityIdentify resource hogs and network bottlenecksExtract audio from video filesCreate web photo albumsUse git or fossil to manage revision control and interact with FOSS projectsCreate and maintain Linux containers and Virtual MachinesRun a private Cloud serverIn DetailThe shell is the most powerful tool your computer provides. Despite having it at their fingertips, many users are unaware of how much the shell can accomplish.Using the shell, you can generate databases and web pages from sets of files, automate monotonous admin tasks such as system backups, monitor your system's health and activity, identify network bottlenecks and system resource hogs, and more.This book will show you how to do all this and much more. This book, now in its third edition, describes the exciting new features in the newest Linux distributions to help you accomplish more than you imagine. It shows how to use simple commands to automate complex tasks, automate web interactions, download videos, set up containers and cloud servers, and even get free SSL certificates. Starting with the basics of the shell, you will learn simple commands and how to apply them to real-world issues. From there, you'll learn text processing, web interactions, network and system monitoring, and system tuning. Software engineers will learn how to examine system applications, how to use modern software management tools such as git and fossil for their own work, and how to submit patches to open-source projects.Finally, you'll learn how to set up Linux Containers and Virtual machines and even run your own Cloud server with a free SSL Certificate from letsencrypt.org.Style and approachThis book will take you through useful real-world recipes designed to make your daily life easier when working with the shell. 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What You Will Learn * Interact with websites via scripts * Write shell scripts to mine and process data from the Web * Automate system backups and other repetitive tasks with cronatb * Create, compress, and encrypt archives of your critical data. * Configure and monitor Ethernet and wireless networks * Monitor and log network and system activity * Tune your system for optimal performance * Improve your system's security * Identify resource hogs and network bottlenecks * Extract audio from video files * Create web photo albums * Use git or fossil to manage revision control and interact with FOSS projects * Create and maintain Linux containers and Virtual Machines * Run a private Cloud server In Detail The shell is the most powerful tool your computer provides. Despite having it at their fingertips, many users are unaware of how much the shell can accomplish. Using the shell, you can generate databases and web pages from sets of files, automate monotonous admin tasks such as system backups, monitor your system's health and activity, identify network bottlenecks and system resource hogs, and more. This book will show you how to do all this and much more. This book, now in its third edition, describes the exciting new features in the newest Linux distributions to help you accomplish more than you imagine. It shows how to use simple commands to automate complex tasks, automate web interactions, download videos, set up containers and cloud servers, and even get free SSL certificates. Starting with the basics of the shell, you will learn simple commands and how to apply them to real-world issues. From there, you'll learn text processing, web interactions, network and system monitoring, and system tuning. Software engineers will learn how to examine system applications, how to use modern software management tools such as git and fossil for their own work, and how to submit patches to open-source projects. Finally, you'll learn how to set up Linux Containers and Virtual machines and even run your own Cloud server with a free SSL Certificate from letsencrypt.org. 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.... Cover Copyright Credits About the Authors About the Reviewer www.PacktPub.com Customer Feedback Table of Contents Preface Chapter 1: Shell Something Out Introduction Displaying output in a terminal Getting ready How to do it... How it works... There's more... Escaping newline in echo Printing a colored output Using variables and environment variables Getting ready How to do it... There's more... 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With the following software and hardware list you can run all code files present in the book (Chapter 1-8). Chapter Hardware required OS required 1-8 Atleast 25 GB Free Storage Space, Access to either a DVD or USB flash drive Linux Ubuntu 16.04 Ron Brash was the CTO and co-founder of a successful technology consultancy company that provides services in a multitude of domains, but primarily in FOSS and Linux. For over 7 years, he has worked on embedded systems, which provide security and network connectivity in industrial control systems and SCADA networks, all running an optimized embedded Linux. He participates regularly at FOSS and community events, providing feedback and mini-seminars where appropriate. He loves to share knowledge. Ganesh Naik is an author, consultant, and corporate trainer for embedded Android, embedded Linux, IoT, and ML-related product development. He has over 20 years of experience and project accomplishment in IT. He has been a corporate trainer for Indian Space Research Organization, Intel, GE, Samsung, Motorola, Penang Skills Development Center, and various firms in Singapore and India. He has started a company called Levana Technologies, which works with organizations for consulting and training activities. Click here if you have any amendments or suggestions. If you have already purchased a print or Kindle version of this book, you can get a DRM-free PDF version at no cost. Simply click on the link to claim your free PDF. You can't perform that action at this time. The \$5 campaign runs from December 15th 2020 to January 13th 2021. This is the code repository for Linux Shell Scripting Cookbook - Third Edition, published by Packt. It contains all the supporting project files necessary to work through the book from start to finish. The shell is the most powerful tool your computer provides. Despite having it at their fingertips, many users are unaware of how much the shell can accomplish. Using the shell, you can generate databases and web pages from sets of files, automate monotonous admin tasks such as system backups, monitor your system's health and activity, identify network bottlenecks and system resource hogs, and more. This book will show you how to do all this and much more. This book, now in its third edition, describes the exciting new features in the newest Linux distributions to help you accomplish more than you imagine. It shows how to use simple commands to automate complex tasks, automate web interactions, download videos, set up containers and cloud servers, and even get free SSL certificates. Starting with the basics of the shell, you will learn simple commands and how to apply them to real-world issues. From there, you'll learn text processing, web interactions, network and system monitoring, and system tuning. Software engineers will learn how to examine system applications, how to use modern software management tools such as git and fossil for their own work, and how to submit patches to open-source projects. Finally, you'll learn how to set up Linux Containers and Virtual machines and even run your own Cloud server with a free SSL Certificate from letsencrypt.org. All of the code is organized into folders. Each folder starts with a number followed by the application name. For example, Chapter02. The code will look like the following: \$> env PWD=/home/clif/ShellCookBook HOME=/home/clif SHELL=/bin/bash # ... And many more lines The recipes in this book run on any Linux-based computer—from a Raspberry Pi to IBM Big Iron. The \$5 campaign runs from December 15th 2020 to January 13th 2021. This is the code repository for Linux Shell Scripting Cookbook - Third Edition, published by Packt. It contains all the supporting project files necessary to work through the book from start to finish. The shell is the most powerful tool your computer provides. Despite having it at their fingertips, many users are unaware of how much the shell can accomplish. Using the shell, you can generate databases and web pages from sets of files, automate monotonous admin tasks such as system backups, monitor your system's health and activity, identify network bottlenecks and system resource hogs, and more. This book will show you how to do all this and much more. This book, now in its third edition, describes the exciting new features in the newest Linux distributions to help you accomplish more than you imagine. It shows how to use simple commands to automate complex tasks, automate web interactions, download videos, set up containers and cloud servers, and even get free SSL certificates. Starting with the basics of the shell, you will learn simple commands and how to apply them to real-world issues. From there, you'll learn text processing, web interactions, network and system monitoring, and system tuning. Software engineers will learn how to examine system applications, how to use modern software management tools such as git and fossil for their own work, and how to submit patches to open-source projects. Finally, you'll learn how to set up Linux Containers and Virtual machines and even run your own Cloud server with a free SSL Certificate from letsencrypt.org. All of the code is organized into folders. Each folder starts with a number followed by the application name. For example, Chapter02. The code will look like the following: \$> env PWD=/home/clif/ShellCookBook HOME=/home/clif SHELL=/bin/bash # ... And many more lines The recipes in this book run on any Linux-based computer—from a Raspberry Pi to IBM Big Iron. Hosted runners for every major OS make it easy to build and test all your projects. Run directly on a VM or inside a container. Use your own VMs, in the cloud or on-prem, with self-hosted runners. Save time with matrix workflows that simultaneously test across multiple operating systems and versions of your runtime. GitHub Actions supports Node.js, Python, Java, Ruby, PHP, Go, Rust, .NET, and more. Build, test, and deploy applications in your language of choice. See your workflow run in realtime with color and emoji. It's one click to copy a link that highlights a specific line number to share a CI/CD failure. Automate your software development practices with workflow files embracing the Git flow by codifying it in your repository. Test your web service and its DB in your workflow by simply adding some docker-compose to your workflow file. You can't perform that action at this time. You can't perform that action at this time.

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