



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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PRACTICAL RECIPE BOOKS

Linux Shell Scripting Cookbook Second Edition

Michael Seilmaier



Linux Shell Scripting Cookbook Second Edition:

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 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, 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

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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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 [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

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

Learn Linux Shell Scripting - Fundamentals of Bash 4.4 Sebastiaan Tammer,2018-12-31 Create and maintain powerful Bash scripts for automation and administration Key FeaturesGet up and running with Linux shell scripting using real world examplesLeverage command line techniques and methodologies to automate common yet complex administration tasksA practical guide with exposure to scripting constructs and common scripting patternsBook Description Shell scripts allow us to program commands in chains and have the system execute them as a scripted event just like batch files This book will start with an overview of Linux and Bash shell scripting and then quickly deep dive into helping you set up your local environment before introducing you to tools that are used to write shell scripts The next set of chapters will focus on helping you understand Linux under the hood and what Bash provides the user Soon you will have embarked on your journey along the command line You will now begin writing actual scripts instead of commands and will be introduced to practical applications for scripts The final set of chapters will deep dive into the more advanced topics in shell scripting These advanced topics will take you from simple scripts to reusable valuable programs that exist in the real world The final chapter will leave you with some handy tips and tricks and as regards the most frequently used commands a cheat sheet containing the most interesting flags and options will also be provided After completing this book you should feel confident about starting your own shell scripting projects no matter how simple or complex the task previously seemed We aim to teach you how to script and what to consider to complement the clear cut patterns that you can use in your daily scripting challenges What you will learnUnderstand Linux and Bash basics as well as shell scripting fundamentalsLearn to write simple shell scripts that interact with Linux operating systemBuild maintain and deploy scripts in a Linux environmentLearn

best practices for writing shell scripts
Avoid common pitfalls associated with Bash scripting
Gain experience and the right toolset to write your own complex shell scripts
Who this book is for This book targets new and existing Linux system administrators Windows system administrators or developers who are interested in automating administrative tasks
No prior shell scripting experience is needed but in case you do this book will make a pro quickly
Readers should have a basic understanding of the command line

The Linux Cookbook, 2nd Edition Michael Stutz, 2004 Provides step by step instructions on how to use the computer operating system Linux

[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

Practical Linux Security Cookbook Tajinder Kalsi, 2018-08-31 Enhance file system security and learn about network attack security tools and different versions of Linux build Key Features Hands on recipes to create and administer a secure Linux system Enhance file system security and local and remote user authentication Use various security tools and different versions of Linux for different tasks

Book Description Over the last few years system security has gained a lot of momentum and software professionals are focusing heavily on it Linux is often treated as a highly secure operating system However the reality is that Linux has its share of security flaws and these security flaws allow attackers to get into your system and modify or even destroy your important data But there s no need to panic since there are various mechanisms by which these flaws can be removed and this book will help you learn about different types of Linux security to create a more secure Linux system With a step by step recipe approach the book starts by introducing you to various threats to Linux systems Then this book will walk you through customizing the Linux kernel and securing local files Next you will move on to managing user authentication both locally and remotely and mitigating network attacks Later you will learn about application security and kernel vulnerabilities You will also learn about patching Bash vulnerability packet filtering handling incidents and monitoring system logs Finally you will learn about auditing using system services and performing vulnerability scanning on Linux By the end of this book you will be able to secure your Linux systems and create a robust environment What you will learn

Learn about vulnerabilities and exploits in relation to Linux systems
Configure and build a secure kernel and test it
Learn about file permissions and how to securely modify files
Authenticate users remotely and securely copy files on remote systems
Review different network security methods and tools
Perform vulnerability scanning on Linux machines using tools
Learn about malware scanning and read through logs

Who this book is for This book is intended for all those Linux users who already have knowledge of Linux file systems and administration You should be familiar with basic Linux commands Understanding information security and its risks to a Linux system is also helpful in understanding the recipes more easily

Hadoop

MapReduce v2 Cookbook - Second Edition Thilina Gunarathne,2015-02-25 If you are a Big Data enthusiast and wish to use Hadoop v2 to solve your problems then this book is for you This book is for Java programmers with little to moderate knowledge of Hadoop MapReduce This is also a one stop reference for developers and system admins who want to quickly get up to speed with using Hadoop v2 It would be helpful to have a basic knowledge of software development using Java and a basic working knowledge of Linux

Terraform Cookbook Mikael Krief,2023-08-31 Explore how to provision manage and scale your infrastructure using Infrastructure as Code IaC with Terraform Purchase of the print or Kindle book includes a free PDF eBook Key Features Get up and running with the latest version of Terraform v1 CLI Discover how to deploy Kubernetes resources with Terraform Learn how to troubleshoot common Terraform issues Book DescriptionHashiCorp Configuration Language HCL has changed how we define and provision data center infrastructure with the launch of Terraform a top tier product for building Infrastructure as Code IaC Terraform Cookbook shows you how to leverage Terraform to manage complex infrastructure with ease This new edition has been updated to include real world examples for provisioning Azure AWS and GCP infrastructure with Terraform You ll delve into manual and automated testing with Terraform configurations creating and managing a balanced efficient and reusable infrastructure with Terraform modules You ll learn how to automate the deployment of Terraform configuration with continuous integration and continuous delivery CI CD Besides that several new chapters have been added that describe the use of Terraform for Docker and Kubernetes examine advanced topics on GitOps practices and explain how to test Terraform configurations using different tools to check code and security compliance The final chapter covers troubleshooting common Terraform issues and provides solutions for frequently encountered errors By the end of this book you ll have developed the skills needed to get the most value out of Terraform and to effectively manage your infrastructure What you will learn Use Terraform to build and run cloud and Kubernetes infrastructure using IaC best practices Adapt the Terraform command line adapted to appropriate use cases Automate the deployment of Terraform configuration with CI CD Discover manipulation of the Terraform state by adding or removing resources Explore Terraform for Docker and Kubernetes deployment advanced topics on GitOps practices and Cloud Development Kit CDK Add and apply test code and compliance security in Terraform configuration Debug and troubleshoot common Terraform errors Who this book is for This book is for developers operators and DevOps engineers looking to improve their workflow and use Infrastructure as Code Experience with Microsoft Azure Jenkins shell scripting and DevOps practices is required to get the most out of this Terraform book

Raspberry Pi Home Automation with Arduino - Second Edition Andrew K. Dennis,2015-02-25 If you are new to the Raspberry Pi the Arduino or home automation and wish to develop some amazing projects using these tools then this book is for you Any experience in using the Raspberry Pi would be an added advantage

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

Learning Docker Pethuru Raj, Jeeva S. Chelladurai, Vinod Singh, 2015-06-29 Docker is a next generation platform for simplifying application containerization life cycle Docker allows you to create a robust and resilient environment in which you can generate portable composable scalable and stable application containers This book is a step by step guide that will walk you through the various features of Docker from Docker software installation to the impenetrable security of containers The book starts off by elucidating the installation procedure for Docker and a few troubleshooting techniques You will be introduced to the process of downloading Docker images and running them as containers You'll learn how to run containers as a service CaaS and also discover how to share data among containers Later on you'll explore how to establish the link between containers and orchestrate containers using Docker Compose You will also come across relevant details about application testing inside a container You will discover how to debug a container using the docker exec command and the nsenter tool Finally you will learn how to secure your containers with SELinux and other proven methods

Bash Cookbook Ron Brash, Ganesh Sanjiv Naik, 2018-07-31 Create simple to advanced shell scripts and enhance your system functionality with effective recipes Key Features Automate tedious and repetitive tasks Create several novel applications ranging from a simple IRC logger to a Web Scraper Manage your system efficiently by becoming a seasoned Bash user Book Description In Linux one of the most commonly used and most powerful tools is the Bash shell With its collection of engaging recipes Bash Cookbook takes you through a series of exercises designed to teach you how to effectively use the Bash shell in order to create and execute your own scripts The book starts by introducing you to the basics of using the Bash shell also teaching you the fundamentals of generating any input from a command With the help of a number of exercises you will get to grips with the automation of daily tasks for sysadmins and power users Once you have a hands on understanding of the subject you will move on to exploring more advanced projects that can solve real world problems comprehensively on a Linux system In addition to this you will discover projects such as creating an application with a menu beginning scripts on startup parsing and displaying human readable information and executing remote commands with authentication using self generated Secure Shell SSH keys By the end of this book you will have gained significant experience of solving real world problems from automating routine tasks to managing your systems and creating your own scripts What you will learn Understand the basics of Bash shell scripting on a Linux system Gain working knowledge of how redirections and pipes interact Retrieve and parse input or output of any command Automate tasks such as data collection and creating and applying a patch Create a script that acts like a program with different features Customize your Bash shell and discover neat tricks to extend your programs Compile and install shell and log commands on your system's console using Syslog Who this book is for The Bash Cookbook is for you if you are a power user or system administrator involved in writing Bash scripts in order to automate tasks This book is also ideal if you are interested in learning how to

automate complex daily tasks 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

ElasticSearch Cookbook - Second Edition Alberto Paro,2015-01-28 If you are a developer who implements ElasticSearch in your web applications and want to sharpen your understanding of the core elements and applications this is the book for you It is assumed that you ve got working knowledge of JSON and if you want to extend ElasticSearch of Java and related technologies

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