



Quick answers to common problems

Linux Shell Scripting Cookbook

Second Edition

Over 110 practical recipes to solve real-world shell problems,
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Shantanu Tushar
Sarath Lakshman

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Linux Shell Scripting Cookbook Second Edition

Lakshman Sarath

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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

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

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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

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

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