

SECOND EDITION

bash Cookbook

Solutions and Examples for bash Users

Carl Albing and JP Vossen

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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 *bash Cookbook* Carl Albing,JP Vossen,2017-10-04 For system administrators programmers and end users shell command or carefully crafted shell script can save you time and effort or facilitate consistency and repeatability for a variety of common tasks This cookbook provides more than 300 practical recipes for using bash the popular Unix shell that enables you to harness and customize the power of any Unix or Linux system Ideal for new and experienced users alike including proficient Windows users and sysadmins this updated second edition helps you solve a wide range of problems You ll learn ways to handle input output file manipulation program execution administrative tasks and many other challenges Each recipe includes one or more scripting examples and a discussion of why the solution works You ll find recipes for problems including Standard output and input and executing commands Shell variables shell logic and arithmetic Intermediate shell tools and advanced scripting Searching for files with find locate and slocate Working with dates and times Creating shell scripts for various end user tasks Working with tasks that require parsing Writing secure shell scripts Configuring and customizing bash **Bash Cookbook, 2nd Edition** Carl Albing. JP. Vossen,2017 Bash Cookbook, 2nd Edition Carl Albing,JP Vossen,2017 For system administrators programmers and end users shell command or carefully crafted shell script can save you time and effort or facilitate consistency and repeatability for a variety of common tasks This cookbook provides more than 300 practical recipes for using bash the popular Unix shell that enables you to harness and customize the power of any Unix or Linux system Ideal for new and experienced users alike including proficient Windows users and sysadmins this updated second edition helps you solve a wide range of problems You ll learn ways to handle input output file manipulation program execution administrative tasks and many other challenges Each recipe includes one or more scripting examples and a discussion of why the solution works You ll find recipes for problems including Standard output and input and executing commands Shell variables shell logic and arithmetic Intermediate shell tools and advanced scripting Searching for files with find locate and slocate Working with dates and times Creating shell scripts for various end user tasks Working with tasks that require parsing Writing secure shell

scripts Configuring and customizing bash

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

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

bash Idioms Carl Albing,JP Vossen,2022-03-16 Shell scripts are everywhere especially those written in bash compatible syntax But these scripts can be complex and obscure Complexity is the enemy of security but it s also the enemy of readability and understanding With this practical book you ll learn how to decipher old bash code and write new code that s as clear and readable as possible Authors Carl Albing and JP Vossen show you how to use the power and flexibility of the shell to your advantage You may know enough bash to get by but this book will take your skills from manageable to magnificent Whether you use Linux Unix Windows or a Mac you ll learn how to read and write scripts like an expert Your future you will thank you You ll explore the clear idioms to

use and obscure ones to avoid so that you can Write useful flexible and readable bash code with style Decode bash code such as MAKEMELC and PATHNAME Save time and ensure consistency when automating tasks Discover how bash idioms can make your code clean and concise

Learning the Bash Shell Cameron Newham, Bill Rosenblatt, 2005-03-29 O'Reilly's bestselling book on Linux's bash shell is at it again Now that Linux is an established player both as a server and on the desktop Learning the bash Shell has been updated and refreshed to account for all the latest changes Indeed this third edition serves as the most valuable guide yet to the bash shell As any good programmer knows the first thing users of the Linux operating system come face to face with is the shell the UNIX term for a user interface to the system In other words it's what lets you communicate with the computer via the keyboard and display Mastering the bash shell might sound fairly simple but it isn't In truth there are many complexities that need careful explanation which is just what Learning the bash Shell provides If you are new to shell programming the book provides an excellent introduction covering everything from the most basic to the most advanced features And if you've been writing shell scripts for years it offers a great way to find out what the new shell offers Learning the bash Shell is also full of practical examples of shell commands and programs that will make everyday use of Linux that much easier With this book programmers will learn How to install bash as your login shell The basics of interactive shell use including UNIX file and directory structures standard I/O and background jobs Command line editing history substitution and key bindings How to customize your shell environment without programming The nuts and bolts of basic shell programming flow control structures command line options and typed variables Process handling from job control to processes coroutines and subshells Debugging techniques such as trace and verbose modes Techniques for implementing system wide shell customization and features related to system security

Cybersecurity Ops with bash Paul Troncone, Carl Albing Ph.D., 2019-04-02 If you hope to outmaneuver threat actors speed and efficiency need to be key components of your cybersecurity operations Mastery of the standard command line interface CLI is an invaluable skill in times of crisis because no other software application can match the CLI's availability flexibility and agility This practical guide shows you how to use the CLI with the bash shell to perform tasks such as data collection and analysis intrusion detection reverse engineering and administration Authors Paul Troncone founder of Digadel Corporation and Carl Albing coauthor of bash Cookbook O'Reilly provide insight into command line tools and techniques to help defensive operators collect data analyze logs and monitor networks Penetration testers will learn how to leverage the enormous amount of functionality built into nearly every version of Linux to enable offensive operations In four parts security practitioners administrators and students will examine Foundations Principles of defense and offense command line and bash basics and regular expressions Defensive security operations Data collection and analysis real time log monitoring and malware analysis Penetration testing Script obfuscation and tools for command line fuzzing and remote access Security administration Users groups and permissions device and software inventory

Bash Pocket Reference Arnold Robbins, 2016-02-17 It's simple if

you want to interact deeply with Mac OS X Linux and other Unix like systems you need to know how to work with the Bash shell This concise little book puts all of the essential information about Bash right at your fingertips You ll quickly find answers to the annoying questions that generally come up when you re writing shell scripts What characters do you need to quote How do you get variable substitution to do exactly what you want How do you use arrays Updated for Bash version 4.4 this book has the answers to these and other problems in a format that makes browsing quick and easy Topics include Invoking the shell Syntax Functions and variables Arithmetic expressions Command history Programmable completion Job control Shell options Command execution Coprocesses Restricted shells Built in commands

Bash Guide for Beginners Machtelt Garrels,2007-06-03 The primary reason for writing this document is that a lot of readers feel the existing HOWTO to be too short and incomplete while the Bash Scripting guide is too much of a reference work There is nothing in between these two extremes This is a practical guide which while not always being too serious tries to give real life instead of theoretical examples From my experience as UNIX Linux user system administrator and trainer I know that people can have years of daily interaction with their systems without having the slightest knowledge of task automation Thus they often think that UNIX is not user friendly and even worse they get the impression that it is slow and old fashioned This problem is another one that can be remedied by this guide Everybody working on a UNIX or UNIX like system who wants to make life easier on themselves power users and sysadmins alike can benefit from reading this book

Pro Bash Programming Chris Johnson,2009-12-05 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 4.0 programs through standard programming techniques Complete bash coverage Teaches bash as a programming language Helps you master bash 4.0 features

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Bash in easy steps Mike McGrath,2019-02-12 The Bourne Again SHell Bash is a powerful command line shell interface that lets you communicate directly with the kernel at the heart of a computer s operating system for total control Bash is the default shell for Unix based operating systems Linux Mac OS X and Raspbian on Raspberry Pi devices and is also available to Windows users on the Windows Subsystem for Linux WSL This book will show you how to use the Bash command line interface and how to employ Bash s programming abilities Complete examples illustrate each aspect with colorized source code and full color screenshots depict the actual output Bash in easy steps begins by demonstrating Bash commands for system navigation and file manipulation so you will quickly become familiar with the command line interface It explains all the BASH basics before moving on to describe advanced features such as command history command line editing and environment customization The book then introduces Bash programming with examples of flow control command switches input output and debugging allowing you to create your own executable programs by copying the examples Bash in easy steps has an easy to follow style

that will appeal to Users who are completely new to Unix based operating systems Casual users who wish to expand their knowledge of their computer system Those who would like to learn coding skills by writing useful shell scripts The student who is studying programming at school or college Those seeking a career in computing and need a fundamental understanding of the BASH interpreter on Unix based operating systems Table of Contents Getting Started Managing Files Handling Text Editing Commands Customizing Environment Controlling Behavior Performing Operations Directing Flow Employing Functions Handy Reference

Shell Scripting Steve Parker,2011-08-17 A compendium of shell scripting recipes that can immediately be used adjusted and applied The shell is the primary way of communicating with the Unix and Linux systems providing a direct way to program by automating simple to intermediate tasks With this book Linux expert Steve Parker shares a collection of shell scripting recipes that can be used as is or easily modified for a variety of environments or situations The book covers shell programming with a focus on Linux and the Bash shell it provides credible real world relevance as well as providing the flexible tools to get started immediately Shares a collection of helpful shell scripting recipes that can immediately be used for various of real world challenges Features recipes for system tools shell features and systems administration Provides a host of plug and play recipes for to immediately apply and easily modify so the wheel doesn't have to be reinvented with each challenge faced Come out of your shell and dive into this collection of tried and tested shell scripting recipes that you can start using right away

Shell Scripting Recipes Chris Johnson,2006-11-03 This book is geared towards any Unix user who doesn't want to spend time creating or testing shell scripts Instead Shell Scripting Recipes dissects and explains over 150 much needed and practical real world examples and then shows the reader how and when to appropriately use them Because most scripts found in this book are POSIX Portable Operating System Interface compliant they are supported by many of the major shell variants including Bash ksh and sh among others File conversion system administration and resource monitoring are just a few of the topics covered in this highly practical shell scripting reference

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 Quick Reference* Arnold Robbins,2006-06-22 In this quick reference you ll find everything you need to know about the bash shell Whether you print it out or read it on the screen this PDF gives you the answers to the annoying questions that always come up when you re writing shell scripts What characters do you need to quote How do you get variable substitution to do exactly what you want How do you use arrays It s also helpful for interactive use If you re a Unix user or programmer or if you re using bash on Windows you ll find this quick reference indispensable

Classic Shell Scripting Arnold Robbins,Nelson H. F. Beebe,2005-05-16 An useful skill for Unix users and system administrators shell scripts let you easily crunch data and automate repetitive tasks offering a way to quickly harness the full power of any Unix system his book provides the tips tricks and organized knowledge needed to create excellent scripts as well as warnings of traps

Shell Scripting Jaosn Cannon,2015-09-17 Shell Scripting Made Easy If you want to learn how to write shell scripts like a pro solve real world problems or automate repetitive and complex tasks read on Hello My name is Jason Cannon and I m the author of Linux for Beginners Python Programming for Beginners and an instructor to thousands of satisfied students I started my IT career in the late 1990 s as a Unix and Linux System Engineer and I ll be sharing my real world shell scripting and bash programming experience with you throughout this book By the end of this book you will be able to create shell scripts with ease You ll learn how to take tedious and repetitive tasks and turn them into programs that will save you time and simplify your life on Linux Unix or MAC systems Here is what you will get and learn by reading this Shell Scripting book A step by step process of writing shell scripts that solve real world problems The 1 thing you must do every time you create a shell script How to quickly find and fix the most shell scripting errors How to accept input from a user and then make decisions on that input How to accept and process command line arguments What special variables are available how to use them in your shell scripts and when to do so A shell script creation check list You ll never have to guess what to include in each of your shell scripts again Just use this simple check list A shell script template boilerplate Use this format for each of your shell scripts It shows exactly what to include and where everything goes Eliminate guesswork Practice exercises with solutions so you can start using what you learn right away Real world examples of shell scripts from my personal collection A download that contains the scripts used in the book and lessons You ll be able to look at and experiment with everything you re learning Learn to Program Using Any Shell Scirpting Language What you learn in this book can be applied to any shell however the focus is on the bash shell and you ll learn some really advanced bash features Again whether you re using bash bourne sh KornShell ksh C shell csh Z shell zsh or even the tcsh shell you ll be able to put what you learn in this book to good use Perfect for Linux Unix Mac and More Also you ll be able to use these scripts on any Linux environment including Ubuntu Debian Linux Mint RedHat Fedora OpenSUSE Slackware Kali Linux and more You re scripts will even run on other operating systems such as Apple s Mac OS X Oracle s Solaris IBM s AIX HP s HP UX FreeBSD NetBSD and OpenBSD Scroll up click the Buy Now With 1 Click button and get started learning Linux today

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