

MASTERING Linux Basics

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Mastering Linux

Adam Jones



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tasks when working on Linux based systems Using both simple one line commands and command sequences complex problems can be solved with ease from text processing to backing up sysadmin tools In this book you ll discover everything you need to know to master shell scripting and make informed choices about the elements you employ 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 Implement functions and edit files using the Stream Editor script in Perl program in Python as well as complete coverage of other scripting languages to ensure you can choose the best tool for your project Style and approach The book will capture your attention and keep you engaged with the simplicity and clarity of each explanation Every step is accompanied with screen captures so you can cross check the results before moving on

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command line and package management is necessary to understand the concepts covered in this book

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

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as well designed software which gives us insights into software design in general that are easily scalable yet fundamentally strong and safe By the end of this book you will have considerable understanding of and appreciation for the Linux kernel Style and approach Each chapter begins with the basic conceptual know how for a subsystem and extends into the details of its implementation We use appropriate code excerpts of critical routines and data structures for subsystems

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