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Automating Linux And Unix System Administration 2nd Edition

Review: The Best Linux System Administration Book Ever Written UNIX: A History and Memoir - Book Review UNIX and Linux System Administration Handbook (5th Edition) Introduction to Linux – Full Course for Beginners Linux books for beginners and intermediate users Top 6 Books For Unix And Shell Scripting Beginners| LambdaTest VLogs Bash in 100 Seconds 60 Linux Commands you NEED to know (in 10 minutes) Introduction to The Unix Shell - Automating Your Work The ONE Book EVERY Linux User NEEDS To Own! Automating terminal commands from bash (understood) Linux by Ryan Turner · Audiobook preview Best books on Linux Administration Unix for Neuroimagers #9 / fMRI Short Course #6: Automating fMRI Analysis Automating Linux OS Management
Bash, Bourne, and Korn Shell Scripting for Programmers, System Administrators, and UNIX Gurus

bash Cookbook
A Tcl-based Toolkit for Automating Interactive Programs
Automating Linux and Unix System Administration
Automating System Administration with Perl
Talking Directly to the Kernel and C Library
Essential System Administration
Linux System Programming
Mastering Unix Shell Scripting
How to Automate Command Line Tasks Using Bash Scripting and Shell Programming
Oracle Shell Scripting
Python for Unix and Linux System Administration
Modern Industrial Automation Software Design
Beginning Shell Scripting
UNIX and Linux System Administration Handbook
Korn Shell Scripting
Primer Plus
Automating UNIX and Linux Administration
Expert Recipes for Linux, Bash, and more
Solutions and Examples for bash Users

Automating Linux And Unix System Administration 2nd Edition

OMB No. 6192208371786 edited by

MORENO VALENCIA

BASH, BOURNE, AND KORN SHELL SCRIPTING FOR PROGRAMMERS, SYSTEM ADMINISTRATORS, AND UNIX GURUS

Sams Publishing
Now covers Red Hat

Linux! Written by Evi Nemeth, Garth Snyder, Scott Seebass, and Trent R. Hein with Adam Boggs, Rob Braun, Ned McClain, Dan Crawl, Lynda McGinley, and Todd Miller "This is not a nice, neat book for a nice, clean world. It's a nasty book for a nasty world. This is a book for the rest of us." –Eric Allman and Marshall Kirk McKusick "I am pleased to welcome Linux to the UNIX System Administration Handbook!" –Linus Torvalds, Transmeta "This book is most welcome!" –Dennis Ritchie, AT&T Bell Laboratories This new edition of the world's most comprehensive guide to UNIX system administration is an ideal tutorial for those new to administration and an invaluable reference for experienced professionals. The third edition has been expanded to include "direct from the frontlines" coverage of Red Hat Linux. UNIX System Administration Handbook describes every aspect of system administration–from basic topics to UNIX esoterica–and provides explicit coverage of four popular UNIX systems: This book stresses a practical approach to system administration. It's packed with war stories and pragmatic advice, not just theory and watered-down restatements of the manuals. Difficult subjects such as sendmail, kernel building, and DNS configuration are tackled head-on. Examples are provided

for all four versions of UNIX and are drawn from real-life systems–warts and all. "This book is where I turn first when I have system administration questions. It is truly a wonderful resource and always within reach of my terminal." –W. Richard Stevens, author of numerous books on UNIX and TCP/IP "This is a comprehensive guide to the care and feeding of UNIX systems. The authors present the facts along with seasoned advice and numerous real-world examples. Their perspective on the variations among systems is valuable for anyone who runs a heterogeneous computing facility." –Pat Parseghian, Transmeta "We noticed your book on the staff recommendations shelf at our local bookstore: 'Very clear, a masterful interpretation of the subject.' We were most impressed, until we noticed that the same staff member had also recommended Aunt Bea's Mayberry Cookbook." –Shannon Bloomstran, history teacher

bash Cookbook John Wiley & Sons

Wouldnt you like to automate the tedious daily tasks of system administration? Automating UNIX and Linux Administration will show you how, by exploring existing tools and offering real-world examples. Although some of the book is Linux-specific, most of the information applies to any UNIX system, including material on automating tasks across multiple

variants of UNIX. Author Kirk Bauer briefly overviews tools and technologiesand assumes preliminary knowledge about editing a configuration file or mounting a file system. The techniques, methods, and tools in this book will help you manage a single systembut will prove especially powerful across multiple systems. No matter if the systems are desktops, servers, or Beowulf clustersall of them will benefit from this automation. And managing five to five thousand systems will become a simpler task!

A Tcl-based Toolkit for Automating Interactive Programs Sams Publishing

Linux Recipes for Oracle DBAs is an example–based book on managing Oracle Database in a Linux environment. Covering commonly used distributions such as Red Hat Enterprise Linux and Oracle Enterprise Linux, the book is written for database administrators who need to get work done and lack the luxury of curling up fireside with a stack of Linux documentation. The book is task–oriented: Look up the task to perform. See the solution. Read up on the details. Get the job done. Takes you directly from problem to solution Covers the “right” mix of Linux user and administration tasks for database administrators Respects your time by being succinct and to–the–point

Automating Linux and Unix System Administration

"O'Reilly Media, Inc." Python is an ideal language for solving problems, especially in Linux and Unix networks. With this pragmatic book, administrators can review various tasks that often occur in the management of these systems, and learn how Python can provide a more efficient and less painful way to handle them. Each chapter in Python for Unix and Linux System Administration presents a particular administrative issue, such as concurrency or data backup, and presents Python solutions through hands-on examples. Once you finish this book, you'll be able to develop your own set of command-line utilities with Python to tackle a wide range of problems. Discover how this language can help you: Read text files and extract information Run tasks concurrently using the threading and forking options Get information from one process to another using network facilities Create clickable GUIs to handle large and complex utilities Monitor large clusters of machines by interacting with SNMP programmatically Master the IPython Interactive Python shell to replace or augment Bash, Korn, or Z-Shell Integrate Cloud Computing into your infrastructure, and learn to write a Google App Engine Application

Solve unique data backup challenges with customized scripts Interact with MySQL, SQLite, Oracle, Postgres, Django ORM, and SQLAlchemy With this book, you'll learn how to package and deploy your Python applications and libraries, and write code that runs equally well on multiple Unix platforms. You'll also learn about several Python-related technologies that will make your life much easier.

Automating System Administration with Perl CreateSpace
This book highlights practical sysadmin skills, common architectures that you'll encounter, and best practices that apply to automating and running systems at any scale, from one laptop or server to 1,000 or more. It is intended to help orient you within the discipline, and hopefully encourages you to learn more about system administration.

Talking Directly to the Kernel and C Library Addison-Wesley Professional
A guide geared toward seasoned Linux and Unix administrators offers practical knowledge for managing a range of Linux systems and servers, covering such topics as installing servers, setting up e-mail systems, and creating shell scripts.

Essential System Administration Apress
Achieve enterprise automation in your Linux environment with this comprehensive

guide Key Features Automate your Linux infrastructure with the help of practical use cases and real-world scenarios Learn to plan, build, manage, and customize OS releases in your environment Enhance the scalability and efficiency of your infrastructure with advanced Linux system administration concepts Book Description Automation is paramount if you want to run Linux in your enterprise effectively. It helps you minimize costs by reducing manual operations, ensuring compliance across data centers, and accelerating deployments for your cloud infrastructures. Complete with detailed explanations, practical examples, and self-assessment questions, this book will teach you how to manage your Linux estate and leverage Ansible to achieve effective levels of automation. You'll learn important concepts on standard operating environments that lend themselves to automation, and then build on this knowledge by applying Ansible to achieve standardization throughout your Linux environments. By the end of this Linux automation book, you'll be able to build, deploy, and manage an entire estate of Linux servers with higher reliability and lower overheads than ever before. What you will learn Perform large-scale automation of Linux environments in an enterprise

Overcome the common challenges and pitfalls of extensive automation Define the business processes needed to support a large-scale Linux environment Get well-versed with the most effective and reliable patch management strategies Automate a range of tasks from simple user account changes to complex security policy enforcement Learn best practices and procedures to make your Linux environment automatable Who this book is for This book is for anyone who has a Linux environment to design, implement, and maintain. Open source professionals including infrastructure architects and system administrators will find this book useful. You're expected to have experience in implementing and maintaining Linux servers along with knowledge of building, patching, and maintaining server infrastructure. Although not necessary, knowledge of Ansible or other automation technologies will be beneficial.

Linux System Programming

John Wiley & Sons UNIX expert Randal K. Michael guides you through every detail of writing shell scripts to automate specific tasks. Each chapter begins with a typical, everyday UNIX challenge, then shows you how to take basic syntax and turn it into a shell scripting solution. Covering

Bash, Bourne, and Korn shell scripting, this updated edition provides complete shell scripts plus detailed descriptions of each part. UNIX programmers and system administrators can tailor these to build tools that monitor for specific system events and situations, building solid UNIX shell scripting skills to solve real-world system administration problems.

Mastering Unix Shell Scripting "O'Reilly Media, Inc."

The fourth edition of 'Unix Unleashed' will take a different tack from previous editions and other Unix books:It is readable as though it is a series of lectures on individual topics from Unix Wizards. This different approach will take the reader through the following topics: Basic operation of the system and system administration in its simplest form: managing users and disks, starting up and shutting down the system, authenticating user connections, and administering the X Window System. Common subsystems - the typical day-to-day tasks of system administration: sharing files, providing basic web services, printing, e-mail, and backing up the system. The Unix toolset to make system administration more reliable and more powerful, and to administer more complex and important systems running on top of Unix. System administration as a profession: much work needs to be done not to do the job in a

purely technical sense but in a practical, real-world sense.

How to Automate Command Line Tasks Using Bash Scripting and Shell Programming

Pearson Education

Essential System Administration,3rd Edition is the definitive guide for Unix system administration, covering all the fundamental and essential tasks required to run such divergent Unix systems as AIX, FreeBSD, HP-UX, Linux, Solaris, Tru64 and more. Essential System Administration provides a clear, concise, practical guide to the real-world issues that anyone responsible for a Unix system faces daily.The new edition of this indispensable reference has been fully updated for all the latest operating systems. Even more importantly, it has been extensively revised and expanded to consider the current system administrative topics that administrators need most. Essential System Administration,3rd Edition covers: DHCP, USB devices, the latest automation tools, SNMP and network management, LDAP, PAM, and recent security tools and techniques.Essential System Administration is comprehensive. But what has made this book the guide system administrators turn to over and over again is not just the sheer volume of valuable information it provides, but the clear, useful way the information is presented. It discusses

the underlying higher-level concepts, but it also provides the details of the procedures needed to carry them out. It is not organized around the features of the Unix operating system, but around the various facets of a system administrator's job. It describes all the usual administrative tools that Unix provides, but it also shows how to use them intelligently and efficiently.Whether you use a standalone Unix system, routinely provide administrative support for a larger shared system, or just want an understanding of basic administrative functions, Essential System Administration is for you. This comprehensive and invaluable book combines the author's years of practical experience with technical expertise to help you manage Unix systems as productively and painlessly as possible.

Oracle Shell Scripting "O'Reilly Media, Inc." Learn how to create and develop shell scripts in a step-by-step manner increasing your knowledge as you progress through the book. Learn how to work the shell commands so you can be more productive and save you time.

Python for Unix and Linux System Administration Apress A competent system administrator knows that a Linux server is a high performance system for routing large amounts of information through a network connection. Setting up and maintaining a Linux

server requires understanding not only the hardware, but the ins and outs of the Linux operating system along with its supporting cast of utilities as well as layers of applications software. There's basic documentation online but there's a lot beyond the basics you have to know, and this only comes from people with hands-on, real-world experience. This kind of "know how" is what we sought to capture in Linux Server Hacks.Linux Server Hacks is a collection of 100 industrial-strength hacks, providing tips and tools that solve practical problems for Linux system administrators. Every hack can be read in just a few minutes but will save hours of searching for the right answer. Some of the hacks are subtle, many of them are non-obvious, and all of them demonstrate the power and flexibility of a Linux system. You'll find hacks devoted to tuning the Linux kernel to make your system run more efficiently, as well as using CVS or RCS to track the revision to system files. You'll learn alternative ways to do backups, how to use system monitoring tools to track system performance and a variety of secure networking solutions. Linux Server Hacks also helps you manage large-scale Web installations running Apache, MySQL, and other open source tools that are typically part of a Linux system.O'Reilly's new

Hacks Series proudly reclaims the term "hacking" for the good guys. Hackers use their ingenuity to solve interesting problems. Rob Flickenger is an experienced system administrator, having managed the systems for O'Reilly Network for several years. (He's also into community wireless networking and he's written a book on that subject for O'Reilly.) Rob has also collected the best ideas and tools from a number of other highly skilled contributors.Written for users who already understand the basics, Linux Server Hacks is built upon the expertise of people who really know what they're doing.

Modern Industrial Automation Software Design Apress

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!

Beginning Shell Scripting "O'Reilly Media, Inc."

Since Microsoft introduced System Center 2012 Configuration Manager, it has released two sets of important changes and improvements: Service Pack 1 and R2. This comprehensive reference and technical guide focuses specifically on those enhancements. It offers 300+ pages of all-new “in the trenches” guidance for applying Configuration Manager 2012’s newest features to improve user and IT productivity across all corporate, consumer, and mobile devices. An authoring team of world-class System Center consultants thoroughly cover System Center integration with Microsoft Intune and its mobile device management capabilities. They fully address Microsoft’s increased support for cross-platform devices, enhanced profiles, changes to application management, operating system deployment, as well as

improvements to performance, security, usability, and mobile device management. The essential follow-up to System Center 2012 R2 Configuration Manager Unleashed , this new supplement joins Sams' market-leading series of books on Microsoft System Center. • Use ConfigMgr 2012 R2 with Windows Intune to deliver people-centric management to any user, any device, anywhere • Simplify BYOD registration and enrollment, and enable consistent access to corporate resources • Integrate new mobile device management capabilities into the Configuration Manager console without service packs, hot fixes, or major releases • Provision authentication certificates for managed devices via certificate profiles • Automate repetitive software- and device-related tasks with PowerShell cmdlets • Centrally control roaming profiles, certificates, Wi-Fi profiles, and VPN configuration • Configure User Data and Profiles to manage folder redirection, offline files/folders, and roaming profiles for Windows 8.x users • Enable users to access data in Virtual Desktop Infrastructure (VDI) environments • Manage devices running OS X, UNIX, Linux, Windows Phone 8, WinRT, iOS, and Android • Understand the new cross-platform agent introduced in ConfigMgr 2012 R2 • Automate Windows setup with OSD •

Prepare for, configure, install, and verify successful installation of the Windows Intune connector role • Respond to emerging challenges in mobile device management

UNIX and Linux System Administration Handbook

Addison-Wesley Professional
Wouldnt you like to automate the tedious daily tasks of system administration? Automating UNIX and Linux Administration will show you how, by exploring existing tools and offering real-world examples. Although some of the book is Linux-specific, most of the information applies to any UNIX system, including material on automating tasks across multiple variants of UNIX. Author Kirk Bauer briefly overviews tools and technologiesand assumes preliminary knowledge about editing a configuration file or mounting a file system. The techniques, methods, and tools in this book will help you manage a single systembut will prove especially powerful across multiple systems. No matter if the systems are desktops, servers, or Beowulf clustersall of them will benefit from this automation. And managing five to five thousand systems will become a simpler task!
Korn Shell Scripting
Sams Publishing
Whether you need a network of ten Linux PCs and a server or a data center with a few thousand UNIX nodes,

you need to know how to automate much of the installation, configuration, and standard system administration. Build your network once using cfengine, and the network build will work, without user intervention, on any hardware you prefer. Automating Linux and Unix System Administration, Second Edition is unique in its focus on how to make the system administrator's job easier and more efficient: instead of just managing the system administrator's time, the book explains the technology to automate repetitive tasks and the methodology to automate successfully. Both new and seasoned professionals will profit from industry-leading insights into the automation process. System administrators will attain a thorough grasp of cfengine, kickstart, and shell scripting for automation. After reading all chapters and following all exercises in this book, the reader will be able to set up anything from a Linux data center to a small office network. What you'll learn See how to make changes on many UNIX and Linux hosts at once in a reliable and repeatable manner. Learn how to automate things correctly so you only have to do it once, by leveraging the authors' experience in setting up small, medium, and large networks. Set up a Linux data center or a network correctly.

Explore handling real-world environments where not all hosts are configured alike via a case study of a fictional new data center build-out. Examine real-world examples for core infrastructure services (DNS, mail, monitoring, log analysis, security, cfengine, imaging) to build on in your environment. Understand core system administration best practices, which are a key part of how cfengine and automations deployments are outlined in the book. Learn how to make changes reversible, repeatable, and correct the first time through interaction with product/application stakeholders (programmers, product managers, customers, etc.). Who this book is for This book is for Linux system administrators who want to learn about the software and methodology to automate repetitive tasks--regardless of network or data center size--in one place. System managers will also find it much easier to think about network technology and automation projects if they read this book. This book is also for anyone who is interested in repeatable and secure infrastructure.

Primer Plus John Wiley & Sons

Achieve Linux system administration mastery with time-tested and proven techniques In Mastering Linux System Administration, Linux experts and system administrators

Christine Bresnahan and Richard Blum deliver a comprehensive roadmap to go from Linux beginner to expert Linux system administrator with a learning-by-doing approach. Organized by do-it-yourself tasks, the book includes instructor materials like a sample syllabus, additional review questions, and slide decks. Amongst the practical applications of the Linux operating system included within, you'll find detailed and easy-to-follow instruction on: Installing Linux servers, understanding the boot and initialization processes, managing hardware, and working with networks Accessing the Linux command line, working with the virtual directory structure, and creating shell scripts to automate administrative tasks Managing Linux user accounts, system security, web and database servers, and virtualization environments Perfect for entry-level Linux system administrators, as well as system administrators familiar with Windows, Mac, NetWare, or other UNIX systems, Mastering Linux System Administration is a must-read guide to manage and secure Linux servers.

Automating UNIX and Linux Administration
John Wiley & Sons
The author focuses solely on how UNIX and Linux system administrators can use well-known tools to automate tasks, even across multiple

systems.

Expert Recipes for Linux, Bash, and more Springer Science & Business Media When I attended college we studied vacuum tubes in our junior year. At that time an average radio had ?ve vacuum tubes and better ones even seven. Then transistors appeared in 1960s. A good radio was judged to be one with more thententransistors. Latergoodradioshad15–20transistors and after that everyone stopped counting transistors. Today modern processors runing personal computers have over 10milliontransistorsand moremillionswillbeadde devery year. The difference between 20 and 20M is in complexity, methodology and business models. Designs with 20 tr-sistors are easily generated by design engineers without any tools, whilst designs with 20M transistors can not be done by humans in reasonable time without the help of Prof. Dr. Gajski demonstrates the Y-chart automation. This difference in complexity introduced a paradigm shift which required sophisticated methods and tools, and introduced design automation into design practice. By the decomposition of the design process into many tasks and abstraction levels the methodology of designing chips or systems has also evolved. Similarly, the business model has changed from vertical integration, in which

one company did all the tasks from product speci?cation to manufacturing, to globally distributed, client server production in which most of the design and manufacturing tasks are outsourced.

Solutions and Examples for bash Users

Packt Publishing Ltd Shell Programming in Unix, Linux and OS X is a thoroughly updated revision of Kochan and Wood's classic Unix Shell Programming tutorial. Following the methodology of the original text, the book focuses on the POSIX standard shell, and teaches you how to develop programs in this useful programming environment, taking full advantage of the underlying power of Unix and Unix-like operating systems. After a quick review of Unix utilities, the book's authors take you step-by-step through the process of building shell scripts, debugging them, and understanding how they work within the shell's environment. All major features of the shell are covered, and the large number of practical examples make it easy for you to build shell scripts for your particular applications. The book also describes the major features of the Korn and Bash shells. Learn how to... Take advantage of the many utilities provided in the Unix system Write powerful shell scripts Use the shell's built-in decision-making and looping constructs Use

the shell's powerful quoting mechanisms Make the most of the shell's built-in history and command editing capabilities Use regular expressions with Unix commands Take advantage of the special features of the Korn and Bash shells Identify the major differences between versions of the shell language Customize the way your Unix system responds to you Set up your shell environment Make use of functions Debug scripts Contents at a Glance 1 A Quick Review of the Basics 2 What Is the Shell? 3 Tools of the Trade 4 And Away We Go 5 Can I Quote You on That? 6 Passing Arguments 7 Decisions, Decisions 8 'Round and 'Round She Goes 9 Reading and Printing Data 10 Your Environment 11 More on Parameters 12 Loose Ends 13 Rolo Revisited 14 Interactive and Nonstandard Shell Features A Shell Summary B For More Information

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