

Learn Command Line And Batch Script Fast Vol Ii A Course From The Basics Of Windows To The Edge Of Networking

The Batchography book is a boon for system administrators, build engineers, programmers and home users alike. It takes you on a journey of re-discovery of the lost art of Batch files programming. Whether you are an experienced user or new to the language, you will be surprised by the clarity and the abundance of the material presented in this book. With more than 140 scripting recipes, you will learn about things that you never thought were possible to achieve using the Batch files scripting language.

Windows. MacOS. Gnome. GUIs (Graphical user interfaces) have been the mainstay of home and office computers for nearly 25 years. Before that there were DOS and the Unix command lines. For most users, the mouse and the attractive, colorful user interfaces offered were more intuitive and easier to learn than the cryptic keyboard commands needed to do most tasks on text-based interfaces. For most people, GUIs are still the best way to go. Still, many of us want more performance, more efficiency, and (arguably) less complexity that can only be found through the keyboard. This book focuses on getting as much as possible done through non-graphic, non-mouse means. This means the keyboard and the text-mode screen. This means working from the command line and through text-based, non-graphical interfaces. It could mean working with older hardware, but it doesn't have to. Whether you're running on the newest I9 processor, a Mac, iPad, Android phone, Raspberry Pi, or some kind of remote terminal, you can make this happen. Actually, the flexible hardware options are just one more reason to make this switch. Can you make the switch from a \$2000 Apple laptop to a \$35 Raspberry Pi? Well... maybe. This book is here to help you find out. Even if it turns out in the end that you don't want to totally switch to text exclusively, the tools and tricks you learn here can still be used from within a terminal in any GUI system. So what do I mean by "Going Text" in this context? This means we'll be working from a command line, using text-based Unix/Linux-based software. We're going to almost entirely quit using the mouse. We'll be using these command line tools from within Windows, MacOS, or Linux terminal apps, or on other devices by using a terminal program logged into a remote server. As I wrote this book, my alternate titles were "Going Command Line" and "Going Terminal." The final product is a bit of a mash-up of all three ideas. The book will help you get to a command line via one of the following: - On a Mac Using Terminal or iTerm2 (and you have Homebrew installed) - On Windows 10 using Linux Subsystem for Windows - On any PC using Linux - On Windows using PuTTY to SSH to a remote server - On any device using a Chrome browser and Secure Shell to SSH to a remote server - A smartphone or tablet using some kind of SSH App to connect to a remote server Once there, we look at Package Managers, Tmux, Ranger, and Midnight Commander as general-purpose power tools, then get into specific task-oriented tools for reading email, writing, spreadsheet work, notes, security, password management, web browsing, social media, graphics, audio, video, news, weather, books, task management, coding/web design, and more. There are conceptual overviews of Markdown, LaTeX, Vim, and Todo.txt systems for work.

Explores the Microsoft Windows XP interface, covering the batch file language and documenting the commandline utilities.

This step-by-step, highly visual text provides a comprehensive introduction to managing and maintaining computer hardware and software. Written by best-selling author and educator Jean Andrews, A+ Guide to IT Technical Support, 9th Edition closely integrates the CompTIA+ Exam objectives to prepare you for the 220-901 and 220-902 certification exams. The new Ninth Edition also features extensive updates to reflect current technology, techniques, and industry standards in the dynamic, fast-paced field of PC repair and information technology. Each

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chapter covers both core concepts and advanced topics, organizing material to facilitate practical application and encourage you to learn by doing. The new edition features more coverage of updated hardware, security, virtualization, new coverage of cloud computing, Linux and Mac OS, and increased emphasis on mobile devices. Supported by a wide range of supplemental resources to enhance learning with Lab Manuals, CourseNotes online labs and the optional MindTap that includes online labs, certification test prep and interactive exercises and activities, this proven text offers students an ideal way to prepare for success as a professional IT support technician and administrator. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version. The addition of the mouse and the Graphical User Interface made the computer accessible to many more people than would have been possible otherwise. Still, "pointing and clicking" can be tedious when performing routine or repetitive tasks. Just as people learn to use menu shortcuts (the Alt key) to save time, savvy users and administrators learn to write batch files and scripts to avoid having to type the same commands over and over. Scripts save time, increase accuracy, and serve as documentation to boot. Windows 7 and Windows Vista come with scripting, batch file, and command line tools th.

Part of the New Perspectives Series, this text offers a case based, problem-solving approach to learning basic through advanced Microsoft DOS skills.

How to Cheat at Windows Systems Administrators using Command Line Scripts teaches system administrators hundreds of powerful, time-saving tips for automating daily system administration tasks using Windows command line scripts. With every new version of Windows, Microsoft is trying to ease the administration jobs by adding more and more layers of graphical user interface (GUI) or configuration wizards (dialog boxes). While these 'wizards' are interactive and make the administrator's job easier, they are not always the most convenient and efficient way to accomplish the everyday administration tasks. These wizards are time consuming and, at times, may seem a bit confusing. The purpose of the book is to teach administrators how to use command-line scripts to complete everyday administration jobs, solve recurring network problems and at the same time improve their efficiency. Provides system administrators with hundreds of tips, tricks, and scripts to complete administration tasks more quickly and efficiently. No direct competition for a core tool for Windows administrators. Builds on success of other books in the series including How to Cheat at Managing Windows Small Business Server 2003 and How to Cheat at Managing Microsoft Operations Manager 2005.

"What's Wrong with MICROSOFT Windows, Word and MSN" is a hard-nosed, no holds barred, critique of a few Microsoft software products by a long-time user. It describes the author's adventures in trying to use these software products for productive work. If you have used any of these products, you are sure to identify with his frustrations and anger. Isn't it time you let Bill Gates and Microsoft know that these products really suck? Wouldn't you someday like to see really user-centered, human-centered software that is a joy to use?

The perfect companion to any book on Windows Server 2008 or Windows 7, and the quickest way to access critical information Focusing just on the essentials of command-line interface (CLI), Windows Command-Line Administration Instant Reference easily shows how to quickly perform day-to-day tasks of Windows administration without ever touching the graphical user interface (GUI). Specifically designed for busy administrators, Windows Command-Line Administration Instant Reference replaces many tedious GUI steps with just one command at the command-line, while concise, easy to access answers provide solutions on the spot. Provides practical examples, step-by-step instructions, and contextual information Quick-reference style delivers the commands needed for managing data and the network; working with Active Directory; performing diagnostics and maintenance; and, creating batch files and scripts Covers administration for Windows Server 2008

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Server Core, Windows Server 2008 (including R2), and Windows 7 Administrators can get more done in less time with CLI than they can with the standard GUI. Compact enough to keep on hand at all times, Windows Command-Line Administration Instant Reference provides administrators with a convenient, fast and simple way to use CLI.

"This library is useful for practitioners, and is an excellent tool for those entering the field: it is a set of computer vision algorithms that work as advertised."-William T. Freeman, Computer Science and Artificial Intelligence Laboratory, Massachusetts Institute of Technology Learning OpenCV puts you in the middle of the rapidly expanding field of computer vision. Written by the creators of the free open source OpenCV library, this book introduces you to computer vision and demonstrates how you can quickly build applications that enable computers to "see" and make decisions based on that data. Computer vision is everywhere-in security systems, manufacturing inspection systems, medical image analysis, Unmanned Aerial Vehicles, and more. It stitches Google maps and Google Earth together, checks the pixels on LCD screens, and makes sure the stitches in your shirt are sewn properly. OpenCV provides an easy-to-use computer vision framework and a comprehensive library with more than 500 functions that can run vision code in real time. Learning OpenCV will teach any developer or hobbyist to use the framework quickly with the help of hands-on exercises in each chapter. This book includes: A thorough introduction to OpenCV Getting input from cameras Transforming images Segmenting images and shape matching Pattern recognition, including face detection Tracking and motion in 2 and 3 dimensions 3D reconstruction from stereo vision Machine learning algorithms Getting machines to see is a challenging but entertaining goal. Whether you want to build simple or sophisticated vision applications, Learning OpenCV is the book you need to get started.

The Windows Command Line Beginner's Guide gives users new to the Windows command line an overview of the Command Prompt, from simple tasks to network configuration. In the Guide, you'll learn how to: -Manage the Command Prompt. -Copy & paste from the Windows Command Prompt. -Create batch files. -Remotely manage Windows machines from the command line. -Manage disks, partitions, and volumes. -Set an IP address and configure other network settings. -Set and manage NTFS and file sharing permissions. -Customize and modify the Command Prompt. -Create and manage file shares. -Copy, move, and delete files and directories from the command line. -Manage PDF files and office documents from the command line. -And many other topics.

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 every version of Linux to enable offensive operations. With this book, security practitioners, administrators, and students will learn how to: Collect and analyze data, including system logs Search for and through files Detect network and host changes Develop a remote access toolkit Format output for reporting Develop scripts to automate tasks

Journeys inside Windows Vista to explain how to get the most out of the operating system, discussing its key components and features and discusses installation, multimedia applications, networking, Web integration, Internet Explorer 7, and other essential topics.

If you're considering R for statistical computing and data visualization, this book provides a quick and practical guide to just about everything

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you can do with the open source R language and software environment. You'll learn how to write R functions and use R packages to help you prepare, visualize, and analyze data. Author Joseph Adler illustrates each process with a wealth of examples from medicine, business, and sports. Updated for R 2.14 and 2.15, this second edition includes new and expanded chapters on R performance, the ggplot2 data visualization package, and parallel R computing with Hadoop. Get started quickly with an R tutorial and hundreds of examples Explore R syntax, objects, and other language details Find thousands of user-contributed R packages online, including Bioconductor Learn how to use R to prepare data for analysis Visualize your data with R's graphics, lattice, and ggplot2 packages Use R to calculate statistical tests, fit models, and compute probability distributions Speed up intensive computations by writing parallel R programs for Hadoop Get a complete desktop reference to R

One of the first books available on scripting the Windows NT shell, this title appeals to the many UNIX users migrating to Windows NT. It integrates hundreds of proven example scripts throughout the book and gives comprehensive reference of shell commands organized by functional group for ease of use.

Readers examine two of the most prominent operating systems -- Windows 10 and Linux CentOS7 -- in parallel with the unique approach found only in GUIDE TO PARALLEL OPERATING SYSTEMS WITH WINDOWS 10 AND LINUX, 3E. Rather than using a compare and contrast model, the book presents each topic conceptually before demonstrating it simultaneously on both operating systems. Readers can instantly switch between Windows 10 and Linux CentOS 7 to complete the myriad of hands-on activities that reinforce the similarities between the two operating systems for each conceptual task. The text's virtualization approach provides flexibility that enables readers to use Microsoft Hyper-V Client, Oracle VirtualBox, or VMWare Workstation. This comprehensive guide helps users develop the competencies needed in Windows 10 and Linux to maximize success in today's classroom or tomorrow's business environment. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

This Nutshell Handbook® is a thorough introduction to the Korn shell, both as a user interface and as a programming language. The Korn shell, like the C and Bourne shells, is a program that interprets UNIX commands. It has many features that aren't found in other shells, including command history (the ability to recall and edit previous commands). The Korn shell is also faster; several of its features allow you to write programs that execute more quickly than their Bourne or C shell equivalents. This book provides a clear and concise explanation of the Korn shell's features. It explains ksh string operations, co-processes, signals and signal handling, and one of the worst "dark corners" of shell programming: command-line interpretation. It does this by introducing simple real-life examples and then adding options and complexity in later chapters, illustrating the way real-world script development generally proceeds. An additional (and unique) programming aid, a Korn shell debugger (kshdb), is also included. Learning the Korn Shell is an ideal resource for many UNIX users and programmers, including software developers who want to "prototype" their designs, system administrators who want to write tools for their own use, and even novices who just want to use some of ksh's more advanced interactive features.

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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

This book is for developers who want an alternative way to store and process data within their applications. No previous graph database experience is required; however, some basic database knowledge will help you understand the concepts more easily.

Faster, stronger, better than it was before – this is the only Windows XP book readers will ever need!

With more than 250 ready-to-use recipes, this solutions-oriented introduction to the Windows PowerShell scripting environment and language provides administrators with the tools to be productive immediately.

InfoWorld is targeted to Senior IT professionals. Content is segmented into Channels and Topic Centers. InfoWorld also celebrates people, companies, and projects.

The second edition of this best-selling Python book (over 500,000 copies sold!) uses Python 3 to teach even the technically uninclined how to write programs that do in minutes what would take hours to do by hand. There is no prior programming experience required and the book is loved by liberal arts majors and geeks alike. If you've ever spent hours renaming files or updating hundreds of spreadsheet cells, you know how tedious tasks like these can be. But what if you could have your computer do them for you? In this fully revised second edition of the best-selling classic Automate the Boring Stuff with Python, you'll learn how to use Python to write programs that do in minutes what would take you hours to do by hand--no prior programming experience required. You'll learn the basics of Python and explore Python's rich library of modules for performing specific tasks, like scraping data off websites, reading PDF and Word documents, and automating clicking and typing tasks. The second edition of this international fan favorite includes a brand-new chapter on input validation, as well as tutorials on automating Gmail and Google Sheets, plus tips on automatically updating CSV

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files. You'll learn how to create programs that effortlessly perform useful feats of automation to:

- Search for text in a file or across multiple files
- Create, update, move, and rename files and folders
- Search the Web and download online content
- Update and format data in Excel spreadsheets of any size
- Split, merge, watermark, and encrypt PDFs
- Send email responses and text notifications
- Fill out online forms

Step-by-step instructions walk you through each program, and updated practice projects at the end of each chapter challenge you to improve those programs and use your newfound skills to automate similar tasks. Don't spend your time doing work a well-trained monkey could do. Even if you've never written a line of code, you can make your computer do the grunt work. Learn how in *Automate the Boring Stuff with Python, 2nd Edition*.

This book is the full three volumes of the successful, and well-reviewed, e-book series of the same name, re-published for print. This book introduces the Windows command line, or "cmd line," and batch script with a practical step-by-step approach. It starts with simple examples, explanations and exercises. As the book progresses, it guides the reader through using new commands as well as the techniques to combine them into effective batch scripts. Examples, explanations, and exercises (with answers) are provided throughout. While this book is in a course format, the sections on each command are designed to be independent of each other, allowing the reader to skip ahead and try out examples for a later command if, for example, they already know how to use an earlier one. Look inside!

As the only complete reference for Windows command line utilities, this book takes an in-depth look at the often-overlooked utilities accessible through the command line in Windows Vista, 2003, XP, and 2000. You'll learn to locate files, check status, monitor systems, and save time by using scripts to automate time-consuming tasks. Plus, this is the only book on the market with the complete set of Windows command line utilities—including the latest for Vista—and offers solutions that will help increase your productivity.

Built especially for the power and corporate user. Updated to include all the latest SP1 information!

"To catch a thief think like a thief" the book takes a simplified approached tour through all the cyberthreats faced by every individual and corporate, The book has addressed some of the horrific cybercrime cases to hit the corporate world as well as individuals, including Credit card hacks and social media hacks. Through this book, you would be able to learn about the modern Penetration Testing Framework, latest tools and techniques, discovering vulnerabilities, patching vulnerabilities, This book will help readers to undercover the approach and psychology of blackhat hackers. Who should read this book? College student. corporate guys. newbies looking for expanding knowledge. Ethical hackers. Though this book can be used by anyone, it is however advisable to exercise extreme caution in using it and be sure not to violate the laws existing in that country.

Featuring WinBatch, a powerful new batch file development program for Windows, this manual explains everything there is to know about using the utility to produce simple and advanced Windows batch files. All program commands are covered in detail, and important tips, tricks, and warnings are highlighted throughout. Includes 200 practical batch files on a 3.5" disk. 150 illustrations.

R has been the gold standard in applied machine learning for a long time. Surveys show that it is the most popular platform used by

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professional data scientists. It is also preferred by the best data scientists in the world. In this Ebook, learn how to get started, practice and apply machine learning using the R platform.

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Dig deep into the data with a hands-on guide to machine learning Machine Learning: Hands-On for Developers and Technical Professionals provides hands-on instruction and fully-coded working examples for the most common machine learning techniques used by developers and technical professionals. The book contains a breakdown of each ML variant, explaining how it works and how it is used within certain industries, allowing readers to incorporate the presented techniques into their own work as they follow along. A core tenant of machine learning is a strong focus on data preparation, and a full exploration of the various types of learning algorithms illustrates how the proper tools can help any developer extract information and insights from existing data. The book includes a full complement of Instructor's Materials to facilitate use in the classroom, making this resource useful for students and as a professional reference. At its core, machine learning is a mathematical, algorithm-based technology that forms the basis of historical data mining and modern big data science. Scientific analysis of big data requires a working knowledge of machine learning, which forms predictions based on known properties learned from training data. Machine Learning is an accessible, comprehensive guide for the non-mathematician, providing clear guidance that allows readers to: Learn the languages of machine learning including Hadoop, Mahout, and Weka Understand decision trees, Bayesian networks, and artificial neural networks Implement Association Rule, Real Time, and Batch learning Develop a strategic plan for safe, effective, and efficient machine learning By learning to construct a system that can learn from data, readers can increase their utility across industries. Machine learning sits at the core of deep dive data analysis and visualization, which is increasingly in demand as companies discover the goldmine hiding in their existing data. For the tech professional involved in data science, Machine Learning: Hands-On for Developers and Technical Professionals provides the skills and techniques required to dig deeper.

RMAN Recipes for Oracle Database 12c is an example-driven approach to the Oracle database administrator's #1 job responsibility: Be able to recover the database. Of all the things you are responsible for as database administrator, nothing is more important than the data itself. Like it or not, the fearsome responsibility of protecting your organization's most critical data falls squarely upon your shoulders: Lose that data and your company could fail. Lose that data and you could be out of a job. Oracle's flagship database product fortunately implements a wide-ranging feature set to aid you in the all-important task of safeguarding against data loss. Recovery Manager, or RMAN, is at the heart of that feature set, and is the tool most-often used to initiate database backup and recovery operations. In this book, well-known authors and database experts Darl Kuhn, Sam Alapati, and Arup Nanda have created a set of examples encompassing the gamut of backup and recovery tasks that you might need to perform. Sometimes, especially when the heat is on, a good example is what you need to get started towards a solution. RMAN Recipes for Oracle Database 12c delivers. It'll be the book you reach for when that dreaded call comes in at 3:00am some dreary morning. It'll be the book that lets you sleep at night knowing that no matter what transpires, that you've done your job well and can recover from any outage. RMAN Recipes for Oracle Database 12c gets right to the point with quick and easy-to-read, step-by-step solutions that can help you backup and recover your data with confidence.

Wright/Plesniarski's MICROSOFT SPECIALIST GUIDE TO MICROSOFT EXAM MD-100: WINDOWS 10 ensures you are well prepared for the Microsoft exam as well as a successful career in system administration. Completely up to date, this user-friendly guide walks you step by

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step through all aspects of installing, configuring and maintaining Windows 10 as a client operating system. Engaging exercises throughout enable you to experience the processes involved in Windows 10 configuration and management -- with plenty of troubleshooting tips to offer solutions to common problems along the way. Review Questions help you prepare for the Microsoft certification exam, while Case Projects provide practice in situations that must be managed in a live networking environment. Giving you added flexibility, labs can be completed on physical or virtual machines. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

The book will instruct the advanced user on how to exploit all of the features of XP, creating a finely tuned system, optimized for top-notch performance. Comprehensive coverage of Windows XP Professional. Features secrets to optimization with explanations not normally found in user manuals accompanying software. Coverage of advanced topics to benefit the IT Professional. Terry guides the advanced reader through nearly every Windows XP topic imaginable giving ideas and solutions practical to typical problems encountered by professionals. Here are a few examples: installations, use, and maintenance; performance tuning; optimizing memory; detailed registry info; pushing hardware profiles to their limits; XP system tools; how to build network bridges between Dissimilar operating systems; working with compatibility modes to enable older o/s to interact with XP; device driver rollback; automatic driver up20011219; ensuring perfect printing always; maximizing XP for the Internet and intranets, and security, and more! As a consultant, Terry Ogletree travels the world, consulting with major corporations on nearly every imaginable computer topic, from disaster recovery to operating systems. His clients include Bristol-Myers Squidd, Digital Equipment and AT&T. Terry is well known for his magazine articles and devotion to writing computer books. Recent publications include: Windows NT Server 4.0 Networking (Vol. 4 of Sams Windows NT 4 and Website Resource Library) Sams Computer Publishing, 1997, 0672309947; Practical Firewalls (Que Publishing, June 2000), 0789724162, Upgrading and Repairing Networks, Second Edition (Que Publishing, December 1999), 0789720345, and The Complete Idiot's Guide to Creating Your Own CDs (Que/Alpha Books), 0789724928.

The ideal on-the-job reference guide for SQL Server 2008 database administrators If you manage and administer SQL Server 2008 in the real world, you need this detailed guide at your desk. From planning to disaster recovery, this practical book explores tasks and scenarios that a working SQL Server DBA faces regularly and shows you step by step how to handle them. Topics include installation and configuration, creating databases and tables, optimizing the database server, planning for high availability, and more. And, if you're preparing for MCTS or MCITP certification in SQL Server 2008 administration, this book is the perfect supplement to your preparation, featuring a CD with practice exams, flashcards, and video walkthroughs of the more difficult administrative tasks Delves into Microsoft's SQL Server 2008, a rich set of enterprise-level database services for business-critical applications Explores the skills you'll need on the job as a SQL Server 2008 administrator Shows you how to implement, maintain, and repair the SQL Server database, including bonus videos on the CD where the authors walks you through the more difficult tasks Covers database design, installation and configuration, creating databases and tables, security, backup and high availability, and more Supplements your preparation for MCTS and MCITP SQL Server 2008 certification with in-depth coverage of the skill sets required for certification, as defined by Microsoft Uses hands-on exercises and real-world scenarios to keep what you're learning grounded in the reality of the workplace Make sure you're not only prepared for certification, but also for your job as a SQL Server 2008 administrator, with this practical reference! Note: CD-ROM/DVD and other supplementary materials are not included as part of eBook file.

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THE ONLY HANDS-ON, UP-TO-DATE GUIDE TO VBSCRIPT, THE WINDOWS COMMAND LINE, AND WINDOWS POWERSHELL
Windows 7 and Vista contain state-of-the-art tools for streamlining or automating virtually any system management task. If you're a power user, administrator, or developer, these tools can help you eliminate repetitive work and manage your systems far more reliably and effectively. Renowned Windows expert Brian Knittel brings together the practical knowledge you need to use all these tools, including VBScript and Windows Scripting Host (WSH), traditional batch files, the advanced PowerShell command console, and more. Using plenty of examples, Knittel explains how each tool works, and how to solve real-world problems with them. You'll master techniques ranging from accessing files to manipulating the Registry, sending automated emails to configuring new users. Knittel also provides concise, handy references to Windows 7/Vista's command line, GUI scripting, and object-based management tools. The only single-source guide to all leading methods of Windows scripting and automation, this book will help you get far more done—in far less time! Understand Windows Scripting Host (WSH) and the modern Windows scripting environment Script objects with VBScript, JScript, ActivePerl, and ActivePython Read and write files, including XML and HTML files Manipulate programs and shortcuts Manage network, printer, and fax connections Make the most of PowerShell under Windows 7 and Vista Monitor and administer Windows systems with Windows Management Interface (WMI) Use ADSI to control Active Directory and Microsoft Exchange, and manage users more efficiently Avoid mistakes that can compromise script security Use Windows' debugging tools to test and troubleshoot scripts Develop batch files that take full advantage of the command line Send faxes and email messages from scripts with Windows Fax and Collaboration Data Objects (CDO) Deploy your scripts throughout your organization Brian Knittel has been a software developer for more than 30 years. He has coauthored five titles in Que's Special Edition Using series, covering Microsoft Windows Vista, XP, and 2000. He is also author of Windows XP Under the Hood, and coauthor of Upgrading and Repairing Windows (with Scott Mueller).

Master shell basics and Unix tools and discover easy commands to perform complex tasks with speed Key Features Learn why the Bash shell is widely used on Linux and iOS Explore advanced shell concepts, such as pipes and redirection Understand how to use Unix command-line tools as building blocks for different tasks Book Description The most basic interface to a computer—the command line—remains the most flexible and powerful way of processing data and performing and automating various day-to-day tasks. Command Line Fundamentals begins by exploring the basics, and then focuses on the most common tool, the Bash shell (which is standard on all Linux and iOS systems). As you make your way through the book, you'll explore the traditional Unix command-line programs as implemented by the GNU project. You'll also learn to use redirection and pipelines to assemble these programs to solve complex problems. By the end of this book, you'll have explored the basics of shell scripting, allowing you to easily and quickly automate tasks. What you will learn Use the Bash shell to run commands Utilize basic Unix utilities such as cat, tr, sort, and uniq Explore shell wildcards to manage groups of files Apply useful keyboard shortcuts in shell Employ redirection and pipes to process data Write both basic and advanced shell scripts to automate tasks Who this book is for Command Line Fundamentals is for programmers who use GUIs but want to understand how to use the command line to complete tasks faster.

This comprehensive book examines a range of examples, prepared by a diverse group of academic and industry practitioners, which demonstrate how cloud-based simulation is being extensively used across many disciplines, including cyber-physical systems engineering. This book is a compendium of the state of the art in cloud-based simulation that instructors can use to inform the next generation. It highlights the underlying infrastructure, modeling paradigms, and simulation methodologies that can be brought to bear to develop the next generation

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of systems for a highly connected society. Such systems, aptly termed cyber-physical systems (CPS), are now widely used in e.g. transportation systems, smart grids, connected vehicles, industrial production systems, healthcare, education, and defense. Modeling and simulation (M&S), along with big data technologies, are at the forefront of complex systems engineering research. The disciplines of cloud-based simulation and CPS engineering are evolving at a rapid pace, but are not optimally supporting each other's advancement. This book brings together these two communities, which already serve multi-disciplinary applications. It provides an overview of the simulation technologies landscape, and of infrastructure pertaining to the use of cloud-based environments for CPS engineering. It covers the engineering, design, and application of cloud simulation technologies and infrastructures applicable for CPS engineering. The contributions share valuable lessons learned from developing real-time embedded and robotic systems deployed through cloud-based infrastructures for application in CPS engineering and IoT-enabled society. The coverage incorporates cloud-based M&S as a medium for facilitating CPS engineering and governance, and elaborates on available cloud-based M&S technologies and their impacts on specific aspects of CPS engineering.

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

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