

Sql Server 2014 With Powershell V5 Cookbook

Learn the fundamentals of PowerShell to build reusable scripts and functions to automate administrative tasks with Windows About This Book Harness the capabilities of the PowerShell system to get started quickly with server automation Learn to package commands into a reusable script and add control structures and parameters to make them flexible Get to grips with cmdlets that allow you to perform administration tasks efficiently Who This Book Is For This book is intended for Windows administrators or DevOps users who need to use PowerShell to automate tasks. Whether you know nothing about PowerShell or know just enough to get by, this guide will give you what you need to go to take your scripting to the next level. What You Will Learn Learn to verify your installed version of PowerShell, upgrade it, and start a PowerShell session using the ISE Discover PowerShell commands and cmdlets and understand PowerShell formatting Use the PowerShell help system to understand what particular cmdlets do Utilise the pipeline to perform typical data manipulation Package your code in scripts, functions, and modules Solve common problems using basic file input/output functions Find system information with WMI and CIM Automate IIS functionality and manage it using the WebAdministration module In Detail Windows PowerShell is a task-based command-line shell and scripting language designed specifically for system administration. Built on the .NET Framework, Windows PowerShell helps IT professionals and power users control and automate the administration of the Windows operating system and applications that run on Windows. PowerShell is great for batch importing or deleting large sets of user accounts and will let you collect a massive amount of detailed system information in bulk via WMI (Windows Management Instrumentation). Getting Started with PowerShell is designed to help you get up and running with PowerShell, taking you from the basics of installation, to writing scripts and web server automation. This book, as an introduction to the central topics of PowerShell, covers finding and understanding PowerShell commands and packaging code for reusability, right through to a practical example of automating IIS. It also includes topics such as installation and setup, creating scripts, automating tasks, and using Powershell to access data stores, registry, and file systems. You will explore the PowerShell environment and discover how to use cmdlets, functions, and scripts to automate Windows systems. Along the way, you will learn to perform data manipulation and solve common problems using basic file input/output functions. By the end of this book, you will be familiar with PowerShell and be able to utilize the lessons learned from the book to automate your servers. Style and approach A practical learning guide, complete with plenty of activities, examples and screenshots.

Learn to take advantage of the opportunities offered by SQL Server 2014 Microsoft's SQL Server 2014 update means big changes for database administrators, and you need to get up to speed quickly because your methods, workflow, and favorite techniques will be different from here on out. The update's enhanced support of large-scale enterprise databases and significant price advantage mean that SQL Server 2014 will become even more widely adopted across the industry. The update includes new backup and recovery tools, new AlwaysOn features, and enhanced cloud capabilities. In-memory OLTP, Buffer Pool Extensions for SSDs, and a new Cardinality Estimator can improve functionality and smooth out the workflow, but only if you understand their full capabilities. Professional Microsoft SQL Server 2014 is your comprehensive guide to working with the new environment. Authors Adam Jorgensen, Bradley Ball, Ross LoForte, Steven Wort, and Brian Knight are the dream team of the SQL Server community, and they put their expertise to work guiding you through the changes. Improve oversight with better management and monitoring Protect your work with enhanced security features Upgrade performance tuning, scaling, replication, and clustering Learn new options for backup and recovery Professional Microsoft SQL Server 2014 includes a companion website with sample code and efficient automation utilities, plus a host of tips, tricks, and workarounds that will make your job as a DBA or database architect much easier. Stop getting frustrated with administrative issues and start taking control. Professional Microsoft SQL Server 2014 is your roadmap to mastering the update and creating solutions that work.

Utilize a treasure trove of free SharePoint troubleshooting tools and receive insightful guidance about the types of SharePoint issues that can be discovered through their use. Chapters in this book contrast solid and least privileged builds in order to help you understand the types of issues that are raised when farms are not built the least privileged way. Because SharePoint errors often present themselves one way, when an issue is actually something entirely different, the process of finding the root cause can feel like going down a rabbit hole. Hands-on exercises get you comfortable with logs so you can efficiently and effectively "explore the rabbit hole." Troubleshooting SharePoint also demonstrates how to identify components and settings that enter an environment where access has been restricted. The author shares his proven methods for researching an issue based on what appears in the logs, with the understanding that often it is not as simple as asking a question, but how you ask it that leads to the right answer. What You'll Learn Utilize networking tools such as NetMon, WireShark, and Fiddler for troubleshooting Master SharePoint PAL, Webalizer, Indihaing, Developer Dashboard, the Feature Admin tool, and more Become proficient using Timer Jobs and Search Diagnostics Understand how various files are accessed by IIS sites and within the server file system Discover how IIS mappings and file permissions affect issues Troubleshoot with ULS Viewer, PowerShell, and tools such as ProcMon, PerfMon, and Event Viewer Meet your new best friend, the ULS Viewer Use Event Viewer as a troubleshooting source Become conversant in the "language" of SharePoint from the log's perspective Who This Book Is For SharePoint administrators and developers who want to learn how to quickly diagnose and resolve issues in any SharePoint server in SharePoint farms where admin access is possible

SQL in a Nutshell applies the eminently useful "Nutshell" format to Structured Query Language (SQL), the elegant--but complex--descriptive language that is used to create and manipulate large stores of data. For SQL programmers, analysts, and database administrators, the new second edition of SQL in a Nutshell is the essential date language reference for the world's top SQL database products. SQL in a Nutshell is a lean, focused, and thoroughly comprehensive reference for those who live in a deadline-driven world. This invaluable desktop quick reference drills down and documents every SQL command and how to use it in both commercial (Oracle, DB2, and Microsoft SQL Server) and open source implementations (PostgreSQL, and MySQL). It describes every command and reference and includes the command syntax (by vendor, if the syntax differs across implementations), a clear description, and practical examples that illustrate important concepts and uses. And it also explains how the leading commercial and open sources database product implement SQL. This wealth of information is packed into a succinct, comprehensive, and extraordinarily easy-to-use format that covers the SQL syntax of no less than 4 different databases. When you need fast, accurate, detailed, and up-to-date SQL

information, SQL in a Nutshell, Second Edition will be the quick reference you'll reach for every time. SQL in a Nutshell is small enough to keep by your keyboard, and concise (as well as clearly organized) enough that you can look up the syntax you need quickly without having to wade through a lot of useless fluff. You won't want to work on a project involving SQL without it. Learn how to develop solutions to handle disasters both large and small. Real-world scenarios illustrate the importance of disaster response (DR) planning. IT Disaster Response takes a different approach to IT disaster response plans. Rather than focusing on details such as what hardware you should buy or what software you need to have in place, the book focuses on the management of a disaster and various management and communication tools you can use before and during a disaster. This book examines disasters in general—a compilation of lessons the author learned over the course of years working in IT, reviewing plane crashes, and his experiences as a cave rescuer and cave rescue instructor. Although at first it may seem that none of these are really related, the truth is they all have elements in common. In each case, the unexpected has happened. Just as not all plane crashes are deadly, not all IT mishaps have terrible consequences. With the proper training and approach, many problems can either be avoided in the first place or better handled if they do arise. The book contains practical guidance on: How to think about a disaster both before it happens and while it's happening How to apply management skills used in other fields during disasters How to get everyone on board when it comes to planning for and handling disasters How to better deal with smaller, more manageable—and more frequently occurring—disasters What you'll learn Discover the difference between a DR solution and a DR plan Define a disaster — it's not always of the scale of a fire burning down the building. See when to actually implement your DR plan Who This Book Is For IT professionals in charge of developing their company's disaster recovery plan who also need to raise issues to the required C-level people to make sure they have a viable plan.

Sharpen your data visualization skills with Tableau 10 Bootcamp. About This Book Make informed decisions using powerful visualizations in Tableau Learn effective data storytelling to transform how your business uses ideas Use this extensive bootcamp that makes you an efficient Tableau user in a short span of time Who This Book Is For This book caters to business, data, and analytics professionals who want to build rich interactive visualizations using Tableau Desktop. Familiarity with previous versions of Tableau will be helpful, but not necessary. What You Will Learn Complete practical Tableau tasks with each chapter Build different types of charts in Tableau with ease Extend data using calculated fields and parameters Prepare and refine data for analysis Create engaging and interactive dashboards Present data effectively using story points In Detail Tableau is a leading visual analytics software that can uncover insights for better and smarter decision-making. Tableau has an uncanny ability to beautify your data, compared to other BI tools, which makes it an ideal choice for performing fast and easy visual analysis. A military camp style fast-paced learning book that builds your understanding of Tableau 10 in no time. This day based learning guide contains the best elements from two of our published books, Learning Tableau 10 - Second Edition and Tableau 10 Business Intelligence Cookbook, and delivers practical, learning modules in manageable chunks. Each chunk is delivered in a "day", and each "day" is a productive day. Each day builds your competency in Tableau. You will increase your competence in integrating analytics and forecasting to enhance data analysis during the course of this Bootcamp. Each chapter presents core concepts and key takeaways about a topic in Tableau and provides a series of hands-on exercises. In addition to these exercises, at the end of the chapter, you will find self-check quizzes and extra drills to challenge you, to take what you learned to the next level. To summarize, this book will equip you with step-by-step instructions through rigorous tasks, practical callouts, and various real-world examples and assignments to reinforce your understanding of Tableau 10. Style and approach A fast paced book filled with highly-effective real-world examples to help you build new things and help you in solving problems in newer and unseen ways.

SQL Server 2014 with PowerShell V5 Cookbook

Over 100 recipes to help you leverage PowerShell to automate Windows Server 2016 manual tasks About This Book Automate Windows server tasks with the powerful features of the PowerShell Language Master new features such as DevOps, containers, and Nano servers, and speed up their performance using PowerShell Improve PowerShell's usability, and control and manage Windows-based environments by working through inviting recipes Who This Book Is For If you are a systems administrator, engineer, or an architect working with Windows Server 2016 and want to automate tasks with PowerShell, then this book is for you. A basic knowledge of PowerShell is expected. What You Will Learn Streamline routine administration processes Improve the performance and storage of your Windows server with enhanced large-scale PowerShell scripts Use DSC to leverage Windows server features Generate automatic reports that highlight unexpected changes in your environment Monitor performance and report on system utilization using detailed graphs and analysis Create and manage a reliable and redundant Hyper-V environment Manage your enterprise's patch level Utilize multiple tools and protocols to manage your environment In Detail This book showcases several ways that Windows administrators can use to automate and streamline their job. You'll start with the PowerShell and Windows Server fundamentals, where you'll become well versed with PowerShell and Windows Server features. In the next module, Core Windows Server 2016, you'll implement Nano Server, manage Windows updates, and implement troubleshooting and server inventories. You'll then move on to the Networking module, where you'll manage Windows network services and network shares. The last module covers Azure and DSC, where you will use Azure on PowerShell and DSC to easily maintain Windows servers. Style and approach This is a practical guide packed with attractive recipes to help you effectively use PowerShell to accelerate your daily administrative tasks with Windows server.

Summary Learn Windows PowerShell in a Month of Lunches, Third Edition is an innovative tutorial designed for busy IT professionals. This updated edition covers PowerShell features that run on Windows 7, Windows Server 2008 R2 and later, PowerShell v3 and later, and includes v5 features like PowerShellGet. Purchase of the print book includes a free eBook in PDF, Kindle, and ePub formats from Manning Publications. About the Technology PowerShell is both a scripting language and an administrative shell that lets you control and automate nearly every aspect of Windows. It accepts and executes commands interactively and you can write scripts to manage most Windows servers like Exchange, IIS, and SharePoint, as well as online services like Azure and Office 365. About the Book Learn Windows PowerShell in a Month of Lunches, Third Edition is an innovative tutorial designed for busy IT professionals. Just set aside one hour a day - lunchtime would be perfect - for a month, and you'll be automating Windows tasks faster than you ever thought possible. This updated edition covers PowerShell features that run on Windows 7, Windows Server 2008 R2 and later, PowerShell v3 and later, and includes v5 features like PowerShellGet. What's Inside Learn PowerShell from the beginning, no experience required! Covers PowerShell v3 and up, Windows 7, and Windows Server 2008 R2 and later Each lesson takes you an hour or less About the Reader Experience with Windows administration is helpful. No programming or scripting experience needed. About the Author Veteran PowerShell MVPs Don Jones and Jeffery Hicks bring years as successful trainers to this concise, easy-to-follow book. Table of Contents Before you begin Meet PowerShell Using the help system Running commands Working with providers The pipeline:

connecting commands Adding commands Objects: data by another name The pipeline, deeper Formatting - and why it's done on the right Filtering and comparisons A practical interlude Remote control: one-to-one, and one-to-many Using Windows Management Instrumentation and CIM Multitasking with background jobs Working with many objects, one at a time Security alert! Variables: a place to store your stuff Input and output Sessions: remote control with less work You call this scripting? Improving your parameterized script Advanced remoting configuration Using regular expressions to parse text files Additional random tips, tricks, and techniques Using someone else's script Never the end PowerShell cheat sheet

Use the latest tools to manage and automate tasks on Microsoft's SharePoint platform. You will achieve time and cost savings, increase reliability of deployments, and learn how to safely and efficiently migrate from a previous version, all while gaining valuable skills in PowerShell scripting. Authors Nik Charlebois-Laprade and John Edward Naguib begin by explaining the fundamental concepts behind the PowerShell language. Then, with copious real-world examples and scripts, they introduce PowerShell operations in the context of deploying, migrating, managing, and monitoring SharePoint 2016. What You'll Learn What's New in this Edition? Learn about the new SharePoint 2016 capabilities and min role Extend the default set of available PowerShell cmdlets for SharePoint 2016 by creating your own reusable Cmdlet functions with PowerShell 5.0 Upgrade your on-premises SharePoint 2013 environment to SharePoint 2016 using PowerShell Who This Book Is For Administrators, developers, and DevOps engineers working with SharePoint 2016. No experience with PowerShell is required.

With Microsoft SQL Server 2016, a variety of new features and enhancements to the data platform deliver breakthrough performance, advanced security, and richer, integrated reporting and analytics capabilities. In this ebook, we introduce new security features: Always Encrypted, Row-Level Security, and dynamic data masking; discuss enhancements that enable you to better manage performance and storage: TemDB configuration, query store, and Stretch Database; review several improvements to Reporting Services; and also describe AlwaysOn Availability Groups, tabular enhancements, and R integration.

Over 150 real-world recipes to simplify database management, automate repetitive tasks, and enhance your productivity About This Book • This book helps you build a strong foundation to get you comfortable using PowerShell with SQL Server, empowering you to create more complex scripts for your day-to-day job • The book provides numerous guidelines, tips, and explanations on how and when to use PowerShell cmdlets, WMI, SMO, .NET classes, or other components • It offers easy-to-follow, practical recipes to help you get the most out of SQL Server and PowerShell Who This Book Is For If you are a SQL Server database professional (DBA, developer, or BI developer) who wants to use PowerShell to automate, integrate, and simplify database tasks, this book is for you. Prior knowledge of scripting would be helpful, but it is not necessary. What You Will Learn • Explore database objects and execute queries on multiple servers • Manage and monitor the running of SQL Server services and accounts • Back up and restore databases • Create an inventory of database properties and server configuration settings • Maintain permissions and security for users • Work with CLR assemblies, XML, and BLOB objects in SQL • Manage and deploy SSIS packages and SSRS reports In Detail PowerShell can be leveraged when automating and streamlining SQL Server tasks. PowerShell comes with a rich set of cmdlets, and integrates tightly with the .NET framework. Its scripting capabilities are robust and flexible, allowing you to simplify automation and integration across different Microsoft applications and components. The book starts with an introduction to the new features in SQL Server 2014 and PowerShell v5 and the installation of SQL Server. You will learn about basic SQL Server administration tasks and then get to know about some security-related topics such as the authentication mode and assigning permissions. Moving on, you will explore different methods to back up and restore your databases and perform advanced administration tasks such as working with Policies, Filetables, and SQL audits. The next part of the book covers more advanced HADR tasks such as log shipping and data mirroring, and then shows you how to develop your server to work with BLOB, XML, and JSON. Following on from that, you will learn about SQL Server's BI stack, which includes SSRS reports, the SSIS package, and the SSAS cmdlet and database. Snippets not specific to SQL Server will help you perform tasks quickly on SQL servers. Towards the end of the book, you will find some useful information, which includes a PowerShell tutorial for novice users, some commonly-used PowerShell and SQL Server syntax, and a few online resources. Finally, you will create your own SQL Server Sandbox VMs. All these concepts will help you to efficiently manage your administration tasks. Style and approach SQL Server 2014 with PowerShell v5 Cookbook is an example-focused book that provides step-by-step instructions on how to accomplish specific SQL Server tasks using PowerShell. Each recipe is followed by an analysis of the steps or design decisions taken and additional information about the task at hand. Working scripts are provided for all examples so that you can dive in right away. You can read this book sequentially by chapter or you can pick and choose which topics you need right away.

Master vSphere automation with this comprehensive reference VMware vSphere PowerCLI Reference, Automating vSphere Administration, 2nd Edition is a one-stop solution for vSphere automation. Fully updated to align with the latest vSphere and PowerCLI release, this detailed guide shows you how to get the most out of PowerCLI's handy cmdlets using real-world examples and a practical, task-based approach. You'll learn how to store, access, update, back up, and secure massive amounts of data quickly through the power of virtualization automation, and you'll get acquainted with PowerCLI as you learn how to automate management, monitoring, and life-cycle operations for vSphere. Coverage includes areas like the PowerCLI SDK, SRM, vCOPS, and vCloud Air. Plus guidance toward scheduling and viewing automation, using DevOps methodology and structured testing and source control of your PowerCLI scripts. Clear language and detailed explanations make this reference the manual you've been looking for. This book is your complete reference for managing vSphere in a Windows environment, with expert instruction and real-world application. Automate vCenter Server deployment and configuration Create and configure virtual machines, and utilize vApps Monitor, audit, and report the status of your vSphere environment Secure, back up, and restore your virtual machines Work with other vSphere components from your PowerCLI scripts Take control of your PowerCLI scripts through versioning and structured testing Don't spend another day slogging through routine systems management — automate it, with this invaluable guide.

Automate your workload and manage more databases and instances with greater ease and efficiency by combining metadata-driven automation with powerful tools like PowerShell and SQL Server Agent. Automate your new instance-builds and use monitoring to drive ongoing automation, with the help of an inventory database and a management data warehouse. The market has seen a trend towards there being a much smaller ratio of DBAs to SQL Server instances. Automation is the key to responding to this challenge and continuing to run a reliable database platform service. Expert Scripting and Automation for SQL Server DBAs guides you through the process of automating the maintenance of your SQL Server enterprise. Expert Scripting and Automation for SQL Server DBAs shows how to automate the SQL Server build processes, monitor multiple instances from a single location, and automate routine maintenance tasks throughout your environment. You will also learn how to create automated responses to common or time consuming break/fix scenarios. The book helps you become faster and better at what you do for a living, and thus more valuable in the job market. Extensive coverage of automation using PowerShell and T-SQL Detailed discussion and examples on metadata-driven automation Comprehensive coverage of automated responses to break/fix scenarios What You Will Learn Automate the SQL Server build process Create intelligent, metadata-drive routines Automate common maintenance tasks Create automated responses to common break/fix scenarios Monitor multiple instance from a central location Utilize T-SQL and PowerShell for administrative purposes Who This Book Is For Expert Scripting and Automation for SQL Server DBAs is a book for SQL Server database administrators responsible for managing increasingly large numbers of databases across their business enterprise. The book is also useful for any database administrator looking to ease their workload through automation. The book

addresses the needs of these audiences by showing how to get more done through less effort by implementing an intelligent, automated-processes service model using tools such as T-SQL, PowerShell, Server Agent, and the Management Data Warehouse.

Part of a series of specialized guides on System Center, this book focuses on Microsoft System Center Operations Manager. For the seasoned professional, it covers the role of the Operations Manager product, the best practices for working with management packs, how to use the reporting feature to simplify managing the product, how to thoroughly troubleshoot, and how to use and install Operations Manager in the Microsoft Azure Public Cloud environment.

Summary Learn SQL Server Administration in a Month of Lunches is the perfect way to get started with SQL Server operations, including maintenance, backup and recovery, high availability, and performance monitoring. In about an hour a day over a month, you'll learn exactly what you can do, and what you shouldn't touch. Most importantly, you'll learn the day-to-day tasks and techniques you need to keep SQL Server humming along smoothly. Purchase of the print book includes a free eBook in PDF, Kindle, and ePub formats from Manning Publications. About the Book Microsoft SQL Server is used by millions of businesses, ranging in size from Fortune 500s to small shops worldwide. Whether you're just getting started as a DBA, supporting a SQL Server-driven application, or you've been drafted by your office as the SQL Server admin, you do not need a thousand-page book to get up and running. Learn SQL Server Administration in a Month of Lunches is the perfect way to get started with SQL Server. This concise, easy-to-read book skips academic introductions and teaches you day-to-day techniques for maintenance, backup and recovery, performance monitoring, and more. Each of the 21 short lessons gives you practical takeaways you'll use over and over. What's Inside Master the basics—indexes, logins, backup, recovery ... and more Learn what you can and cannot do when supporting a third-party application Monitor and improve performance Written by expert trainer and bestselling author Don Jones Accessible to readers of any level of experience, the book covers techniques for all versions of SQLServer 2005-2014. About the Author Don Jones is a Microsoft MVP, speaker, and trainer. He is the creator of the Month of Lunches series and author of over 50 books on PowerShell, IIS, Active Directory, SCCM, SQL Server, and more. Table of Contents Before you begin Server assessment and configuration T-SQL crash course Managing databases Backup and recovery Authentication: who are you? Authorization: what are you allowed to do? Accounting: what did you do? Analyzing indexes Maintaining indexes Tuning index designs Reading query execution plans Block and deadlock analysis Automating management with SQL Server Agent Multiserver management Windows PowerShell and SQL Server Using Extended Events Monitoring and analyzing performance Options for high availability Virtualizing SQL Server Moving, migrating, and upgrading databases SQL Server performance checklist Never the end

Summary PowerShell in Depth, Second Edition is the go-to reference for administrators working with Windows PowerShell. Every major technique, technology, and tactic is carefully explained and demonstrated, providing a hands-on guide to almost everything an admin would do in the shell. Written by three experienced authors and PowerShell MVPs, this is the PowerShell book you'll keep next to your monitor—not on your bookshelf! Purchase of the print book includes a free eBook in PDF, Kindle, and ePub formats from Manning Publications. About the Book A Windows admin using PowerShell every day may not have the time to search the net every time he or she hits a snag. Wouldn't it be great to have a team of seasoned PowerShell experts ready to answer even the toughest questions? That's what you get with this book. PowerShell in Depth, Second Edition is the go-to reference for administrators working with Windows PowerShell. Every major technique, technology, and tactic is carefully explained and demonstrated, providing a hands-on guide to almost everything an admin would do in the shell. Written by PowerShell MVPs Don Jones, Jeffrey Hicks, and Richard Siddaway, each valuable technique was developed and thoroughly tested, so you'll be able to consistently write production-quality, maintainable scripts while saving hours of time and effort. This book assumes you know the basics of PowerShell. What's Inside Automating tasks Packaging and deploying scripts Introduction to Desired State Configuration PowerShell security Covers PowerShell version 3 and later About the Authors Don Jones, Jeffrey Hicks, and Richard Siddaway are Microsoft MVPs, trainers, and administrators. Collectively, they've authored nearly three dozen books on PowerShell and Windows administration. Table of Contents PART 1 POWERSHELL FUNDAMENTALS Introduction PowerShell hosts Using the PowerShell help system The basics of PowerShell syntax Working with PSSnapins and modules Operators Working with objects The PowerShell pipeline Formatting PART 2 POWERSHELL MANAGEMENT PowerShell Remoting Background jobs and scheduling Working with credentials Regular expressions Working with HTML and XML data PSDrives and PSProviders Variables, arrays, hash tables, and script blocks PowerShell security Advanced PowerShell syntax PART 3 POWERSHELL SCRIPTING AND AUTOMATION PowerShell's scripting language Basic scripts and functions Creating objects for output Scope PowerShell workflows Advanced syntax for scripts and functions Script modules and manifest modules Custom formatting views Custom type extensions Data language and internationalization Writing help Error handling techniques Debugging tools and techniques Functions that work like cmdlets Tips and tricks for creating reports PART 4 ADVANCED POWERSHELL Working with the Component Object Model (COM) Working with .NET Framework objects Accessing databases Proxy functions Building a GUI WMI and CIM Working with the web Desired State Configuration

Learn dbatools in a Month of Lunches is a practical hands-on guide to automating SQL Server with PowerShell and the awesome dbatools module. An effective DBA is an efficient DBA. And if you work with SQL Server, dbatools is a lifesaver. With over 500 commands, this free and open source PowerShell module has the horsepower to automate just about every task you can imagine—and then some! Learn dbatools in a Month of Lunches teaches you techniques that will make you more effective—and efficient—than you ever thought possible. Learn dbatools in a Month of Lunches is a practical hands-on guide to automating SQL Server with PowerShell and the awesome dbatools module. You'll master techniques you can immediately put into practice, from daily duties like backups and restores right through to performing security audits. Stabilize and standardize your SQL server environment, and simplify your tasks by building automation, alerting, and reporting with this powerful tool. Each lesson delivers another skill that you can use to speed through your core tasks as a SQL Server DBA! Purchase of the print book includes a free eBook in PDF, Kindle, and ePub formats from Manning Publications.

NOTE: This title is also available as a free eBook on the Microsoft Download Center. It is offered for sale in print format as a convenience. Get a head start evaluating SQL Server 2014 - guided by two experts who have worked with the technology from the earliest beta. Based on Community Technology Preview 2 (CTP2) software, this guide

introduces new features and capabilities, with practical insights on how SQL Server 2014 can meet the needs of your business. Get the early, high-level overview you need to begin preparing your deployment now. Coverage includes: SQL Server 2014 Editions and engine enhancements Mission-critical performance enhancements Hybrid cloud enhancements Self-service Business Intelligence enhancements in Microsoft Excel Enterprise information management enhancements Big Data solutions Over 150 real-world recipes to simplify database management, automate repetitive tasks, and enhance your productivity About This Book This book helps you build a strong foundation to get you comfortable using PowerShell with SQL Server, empowering you to create more complex scripts for your day-to-day job The book provides numerous guidelines, tips, and explanations on how and when to use PowerShell cmdlets, WMI, SMO, .NET classes, or other components It offers easy-to-follow, practical recipes to help you get the most out of SQL Server and PowerShell Who This Book Is For If you are a SQL Server database professional (DBA, developer, or BI developer) who wants to use PowerShell to automate, integrate, and simplify database tasks, this book is for you. Prior knowledge of scripting would be helpful, but it is not necessary. What You Will Learn Explore database objects and execute queries on multiple servers Manage and monitor the running of SQL Server services and accounts Back up and restore databases Create an inventory of database properties and server configuration settings Maintain permissions and security for users Work with CLR assemblies, XML, and BLOB objects in SQL Manage and deploy SSIS packages and SSRS reports In Detail PowerShell can be leveraged when automating and streamlining SQL Server tasks. PowerShell comes with a rich set of cmdlets, and integrates tightly with the .NET framework. Its scripting capabilities are robust and flexible, allowing you to simplify automation and integration across different Microsoft applications and components. The book starts with an introduction to the new features in SQL Server 2014 and PowerShell v5 and the installation of SQL Server. You will learn about basic SQL Server administration tasks and then get to know about some security-related topics such as the authentication mode and assigning permissions. Moving on, you will explore different methods to back up and restore your databases and perform advanced administration tasks such as working with Policies, Filetables, and SQL audits. The next part of the book covers more advanced HADR tasks such as log shipping and data mirroring, and then shows you how to develop your server to work with BLOB, XML, and JSON. Following on from that, you will learn about SQL Server's BI stack, which includes SSRS reports, the SSIS package, and the SSAS cmdlet and database. Snippets not specific to SQL Server will help you perform tasks quickly on SQL servers. Towards the end of the book, you will find some useful information, which includes a PowerShell tutorial for novice users, some commonly-used PowerShell and SQL Server syntax, and a few online resources. Finally, you will create your own SQL Server Sandbox VMs. All these concepts will help you to efficiently manage your administration tasks. Style and approach SQL Server 2014 with PowerShell v5 Cookbook is an example-focused book that provides step-by-step instructions on how to accomplish specific SQL Server tasks using PowerShell. Each recipe is followed by an analysis of the steps or design decisions taken and additional information about the task at hand. Working scripts are provided for all examples so that you can dive in right away. You can read this book sequentially by chapter or you can pick and choose which topics you need right away.

Summary Here's your chance to learn from the best in the business. PowerShell Deep Dives is a trove of essential techniques, practical guidance, and the expert insights you earn only through years of experience. Editors Jeffery Hicks, Richard Siddaway, Oisin Grehan, and Aleksandar Nikolic hand-picked the 28 chapters in the book's four parts: Administration, Scripting, Development, and Platforms. About the Technology PowerShell has permanently changed Windows administration. This powerful scripting and automation tool allows you to control virtually every aspect of Windows and most Microsoft servers like IIS and SQL Server. Here's your chance to learn from the best in the business. About this Book PowerShell Deep Dives is a trove of essential techniques and practical guidance. It is rich with insights from experts who won them through years of experience. The book's 28 chapters, grouped in four parts (Administration, Scripting, Development, and Platforms), were hand-picked by four section editors: Jeffery Hicks, Richard Siddaway, Oisin Grehan, and Aleksandar Nikolic. Whether you're just getting started with PowerShell or you already use it daily, you'll find yourself returning to this book over and over. What's Inside Managing systems through a keyhole The Ten Commandments of PowerShell scripting Scalable scripting for large datasets Adding automatic remoting Provisioning web servers and websites automatically to IIS 8 And 23 more fantastic chapters Purchase of the print book includes a free eBook in PDF, Kindle, and ePub formats from Manning Publications. About the Authors Editors Jeffery Hicks, Richard Siddaway, Oisin Grehan, and Aleksandar Nikolic are joined by PowerShell experts Chris Bellee, Bartek Bielawski, Robert C. Cain, Jim Christopher, Adam Driscoll, Josh Gavant, Jason Helmick, Don Jones, Ashley McGlone, Jonathan Medd, Ben Miller, James O'Neill, Arnaud Petitjean, Vadims Podans, Karl Prosser, Boe Prox, Matthew Reynolds, Mike Robbins, Donabel Santos, Will Steele, Trevor Sullivan, and Jeff Wouters. Table of Contents PART 1 POWERSHELL ADMINISTRATION Diagnosing and troubleshooting PowerShell remoting CIM sessions 22 Collecting and analyzing performance counter data TCP port communications with PowerShell Managing systems through a keyhole Using PowerShell to audit user logon events Managing and administering a certification authority database with PowerShell Using PowerShell to reduce Active Directory token bloat PART 2 POWERSHELL SCRIPTING The 10 PowerShell scripting commandments Avoiding the pipeline A template for handling and reporting errors Tips and tricks for creating complex or advanced HTML reports with PowerShell Using and "abusing" dynamic parameters PowerShell type formatting Scalable scripting for large data sets: pipeline and database techniques Building your own WMI-based cmdlets Turning command-line tools into PowerShell tools PART 3 POWERSHELL FOR DEVELOPERS Using Source Control Software with PowerShell Inline .NET code PowerShell and XML: better together Adding automatic remoting to advanced functions and cmdlets Taming software builds (and other complicated processes) with psake PART 4 POWERSHELL PLATFORMS PowerShell and the SQL Server provider Creating flexible subscriptions in SSRS Inventory database table statistics using PowerShell SQL Server Management Objects WSUS

and PowerShell Provisioning IIS web servers and sites with PowerShell Active Directory Group Management application

This book is written for SQL Server administrators and developers who want to leverage PowerShell to work with SQL Server. Some background with scripting will be helpful but not necessary.

Get SQL Server up and running on the Linux operating system and containers. No database professional managing or developing SQL Server on Linux will want to be without this deep and authoritative guide by one of the most respected experts on SQL Server in the industry. Get an inside look at how SQL Server for Linux works through the eyes of an engineer on the team that made it possible. Microsoft SQL Server is one of the leading database platforms in the industry, and SQL Server 2017 offers developers and administrators the ability to run a database management system on Linux, offering proven support for enterprise-level features and without onerous licensing terms.

Organizations invested in Microsoft and open source technologies are now able to run a unified database platform across all their operating system investments. Organizations are further able to take full advantage of containerization through popular platforms such as Docker and Kubernetes. Pro SQL Server on Linux walks you through installing and configuring SQL Server on the Linux platform. The author is one of the principal architects of SQL Server for Linux, and brings a corresponding depth of knowledge that no database professional or developer on Linux will want to be without. Throughout this book are internals of how SQL Server on Linux works including an in depth look at the innovative architecture. The book covers day-to-day management and troubleshooting, including diagnostics and monitoring, the use of containers to manage deployments, and the use of self-tuning and the in-memory capabilities. Also covered are performance capabilities, high availability, and disaster recovery along with security and encryption. The book covers the product-specific knowledge to bring SQL Server and its powerful features to life on the Linux platform, including coverage of containerization through Docker and Kubernetes. What You'll Learn Learn about the history and internal of the unique SQL Server on Linux architecture. Install and configure Microsoft's flagship database product on the Linux platform Manage your deployments using container technology through Docker and Kubernetes Know the basics of building databases, the T-SQL language, and developing applications against SQL Server on Linux Use tools and features to diagnose, manage, and monitor SQL Server on Linux Scale your application by learning the performance capabilities of SQL Server Deliver high availability and disaster recovery to ensure business continuity Secure your database from attack, and protect sensitive data through encryption Take advantage of powerful features such as Failover Clusters, Availability Groups, In-Memory Support, and SQL Server's Self-Tuning Engine Learn how to migrate your database from older releases of SQL Server and other database platforms such as Oracle and PostgreSQL Build and maintain schemas, and perform management tasks from both GUI and command line Who This Book Is For Developers and IT professionals who are new to SQL Server and wish to configure it on the Linux operating system. This book is also useful to those familiar with SQL Server on Windows who want to learn the unique aspects of managing SQL Server on the Linux platform and Docker containers. Readers should have a grasp of relational database concepts and be comfortable with the SQL language.

Este libro está dirigido a todas aquellas personas que deseen administrar una base de datos transaccional (administrador de base de datos, desarrollador, etc...). Presenta los diferentes elementos necesarios para esta administración, así como el conjunto de operaciones que el administrador debe realizar, partiendo de la instalación y terminando por las operaciones de copia de seguridad y restauración, pasando por la gestión del espacio en disco, la gestión de usuarios y la gestión de la replicación. Se presentan las diferentes herramientas que permiten utilizar el servidor de una manera más óptima, como por ejemplo la administración por reglas, la integración con PowerShell, la compresión y el cifrado de datos. Las diferentes operaciones se realizan desde SQL Server Management Studio y en Transact SQL. Desde el sitio web de Ediciones Eni, en la dirección www.ediciones-eni.com, puede descargar los elementos adicionales necesarios. Los capítulos del libro: Prólogo – Presentación – Instalación y configuración – Gestión de la base de datos – Gestión de la seguridad del acceso – Tareas planificadas – Transferencia de datos – Service Broker – Replicación – Copia de seguridad – Restauración – Optimización ? Anexo

PowerShell Succinctly highlights some of the PowerShell programming model's many benefits, specifically for .NET developers and system administrators. Author Rui Machado guides readers through time-saving methods that simplify code testing by eliminating the need to create a new application in Visual Studio. Also included are tips for using additional services, such as PowerGui, WMI, and SQL Server, to get the most out of PowerShell. Even if you don't already use scripting languages to manage your machines, PowerShell Succinctly will show you just how easy it is to automate activities, work with databases, and interact with a variety of file types with this useful model.

SQL Server 2012 with PowerShell V3 Cookbook" is an example-focused book that provides step-by-step instructions on how to accomplish specific SQL Server tasks using PowerShell. Each recipe is followed by an analysis of the steps or design decisions taken, and additional information about the task at hand. Working scripts are provided for all examples so that you can dive in right away. You can read this book sequentially by chapter, or you can pick and choose which topics you need right away. This book is written for the SQL Server database professional (DBA, developer, BI developer) who wants to use PowerShell to automate, integrate, and simplify database tasks. A little bit of scripting background is helpful, but not necessary.

The techniques in this book apply to beginners who have just started to learn PowerShell, as well as advanced scripters who have a good grasp of the language.

The Microsoft Azure cloud is an ideal platform for data-intensive applications. Designed for productivity, Azure provides pre-built services that make collection, storage, and analysis much easier to implement and manage. Azure Storage, Streaming, and Batch Analytics teaches you how to design a reliable, performant, and cost-effective data infrastructure in Azure by progressively building a complete working analytics system. Summary The Microsoft Azure cloud is an ideal platform for data-intensive applications. Designed for productivity, Azure provides pre-built services that make collection, storage, and analysis much easier to implement and manage. Azure Storage, Streaming, and Batch Analytics teaches you how to design a reliable, performant, and cost-effective data infrastructure in Azure by progressively building a complete working analytics system. Purchase of the print book includes a free eBook in PDF, Kindle, and ePub formats from Manning Publications. About the technology Microsoft

Azure provides dozens of services that simplify storing and processing data. These services are secure, reliable, scalable, and cost efficient. About the book Azure Storage, Streaming, and Batch Analytics shows you how to build state-of-the-art data solutions with tools from the Microsoft Azure platform. Read along to construct a cloud-native data warehouse, adding features like real-time data processing. Based on the Lambda architecture for big data, the design uses scalable services such as Event Hubs, Stream Analytics, and SQL databases. Along the way, you'll cover most of the topics needed to earn an Azure data engineering certification. What's inside Configuring Azure services for speed and cost Constructing data pipelines with Data Factory Choosing the right data storage methods About the reader For readers familiar with database management. Examples in C# and PowerShell. About the author Richard Nuckolls is a senior developer building big data analytics and reporting systems in Azure. Table of Contents 1 What is data engineering? 2 Building an analytics system in Azure 3 General storage with Azure Storage accounts 4 Azure Data Lake Storage 5 Message handling with Event Hubs 6 Real-time queries with Azure Stream Analytics 7 Batch queries with Azure Data Lake Analytics 8 U-SQL for complex analytics 9 Integrating with Azure Data Lake Analytics 10 Service integration with Azure Data Factory 11 Managed SQL with Azure SQL Database 12 Integrating Data Factory with SQL Database 13 Where to go next

Create powerful, effective visualizations to help analyze your data with Tableau 10 by your side About This Book Cook your favorite Tableau 10 business intelligence recipe with the help of this easy-to-follow book Build beautiful, interactive dashboards and visualizations in Tableau 10 that help you make informed decisions This rich collection of independent recipes cover everything needed to become an advanced Tableau user and get an edge over other Tableau users Who This Book Is For This book is targeted to business, data, and analytics professionals who want to build rich interactive visualizations using Tableau. Familiarity with previous versions of Tableau would be helpful, but is not necessary. What You Will Learn Become familiar with the Tableau interface Build basic to more advanced charts with step-by-step recipes Use filters, calculated fields, parameters, and actions to add interactivity to charts and dashboards Prepare and transform data for analysis using Tableau's built-in tools and functions Create effective and compelling dashboards and story points Leverage Tableau's mapping capabilities to visualize location and shape data Integrate analytics and forecasting to enhance data analysis Get to know tips and tricks to work more quickly and effectively in Tableau Increase your confidence and competence in creating rich, interactive visualizations in Tableau In Detail Tableau is a software tool that can speed up data analysis through its rich visualization capabilities, and help uncover insights for better and smarter decision making. This book is for the business, technology, data and analytics professionals who use and analyze data and data-driven approaches to support business operations and strategic initiatives in their organizations. This book provides easy-to-follow recipes to get the reader up and running with Tableau 10, and covers basic to advanced use cases and scenarios. The book starts with building basic charts in Tableau and moves on to building more complex charts by incorporating different Tableau features and interactivity components. There is an entire chapter dedicated to dashboard techniques and best practices. A number of recipes specifically for geospatial visualization, analytics, and data preparation are also covered. By the end of this book, you'll have gained confidence and competence to analyze and communicate data and insights more efficiently and effectively by creating compelling interactive charts, dashboards, and stories in Tableau. Style and approach This book is a collection of independent recipes that cover a wide range of options for data visualization on offer with Tableau. With the help of the recipes in this book, you can explore Tableau and pick the business intelligence solution that's best suited for your needs.

The definitive guide to automating SQL Server administration with Powershell scripts If you're a SQL Server database administrator, this book will make your life easier. Windows PowerShell is an administrative scripting tool that allows you to automate many tasks you're probably currently doing by hand. This nuts-and-bolts guide shows you how to create Windows PowerShell scripts to administer almost every aspect of SQL Server. You'll get a thorough introduction to PowerShell basics and all the PowerShell components that have been integrated into SQL Server 2008, as well as actual administration tasks. The book provides complete scripts that have been tested and proven, saving you hours of effort. The new release of Microsoft SQL Server 2008 now includes Windows PowerShell, allowing administrators of large-scale enterprise databases to automate many tasks SQL Server 2008 Administration with Windows PowerShell introduces you to PowerShell, covering its components in detail as well as providing basic instruction in using scripts to administer the database The book includes numerous examples of SQL tasks that have been automated and also provides completed scripts that you can put to use immediately The Companion Web site includes complete code scripts If you're a database administrator, the scripts and techniques in SQL Server 2008 Administration with Windows PowerShell will save you hours of effort.

Windows PowerShell is a scripting language that simplifies Windows system administration. PowerShell in Practice is a hands-on reference for administrators wanting to learn and use PowerShell. Following the "in Practice" style, individual related techniques are clustered into chapters. Each technique is presented in the form: problem, solution, discussion, and includes annotated code listings. Written to answer the question "How can PowerShell make my job as an administrator easier?" this book concentrates on practical tasks and automation. Starting with an a brief tutorial and review, the majority of the book focuses on two major PowerShell usage areas: People - user accounts, mailboxes, desktop configuration; and Servers - Active Directory, Exchange, IIS, and more. Purchase of the print book comes with an offer of a free PDF, ePub, and Kindle eBook from Manning. Also available is all code from the book.

SQL Server 2008 Administration isn't a standard SQL Server tutorial-there are dozens of those to choose from. Instead, this book breaks down the role of "SQL Server Administrator" into its key focus areas and tasks and details the techniques and best practices that make an administrator effective. In this book, a reader can quickly identify a task and find the best practice associated with it. For example, a reader looking for information about indexing would find step-by-step procedures for identifying and dropping unused indexes, creating missing indexes, selecting the appropriate clustered index, and so forth. Each technique is presented in a clear, straightforward style and in the order of the typical lifecycle of a SQL Server system. This allows a reader to easily open the book at the appropriate page and focus on what you need to know for each specific situation. While most techniques will work for all versions of SQL Server, this book is current for the recent final release of SQL Server 2008. Purchase of the print book comes with an offer of a free PDF, ePub, and Kindle eBook from Manning. Also available is all code from the book.

In just 24 lessons of one hour or less, Sams Teach Yourself Windows PowerShell in 24 Hours helps you streamline all facets of Windows administration, supercharging your effectiveness as an IT professional or power user. This book's straightforward, step-by-step approach shows you how to build and run scripts, extend Windows PowerShell reach, manage computers remotely, and automate a wide variety of tasks on any modern Windows server or client. Every lesson builds on what you've already learned, giving you a rock-solid foundation for real-world success! Step-by-step instructions carefully walk you through the most common PowerShell scripting tasks. Practical, hands-on examples show you how to apply what you learn. Quizzes and exercises help you test your knowledge and stretch your skills. Notes, tips, and cautions point out shortcuts, pitfalls, and solutions. Learn how to... Install, configure, and explore Windows PowerShell (including updates for PowerShell 5) Leverage .NET's remarkable power and scope with easy-to-use cmdlets Build new scripts with the console, ISE visual tools, and other popular hosts Apply best practices for writing more reliable, flexible, team-friendly scripts Work effectively with the pipeline, objects, and data Extend Windows PowerShell reach via providers, drives, and output Run external tools like ping, ipconfig, and tracert from within PowerShell Remotely manage computers with basic and advanced remoting (WinRM), WMI, and Regexp Configure Windows devices across the web with PSWA Sort, filter, measure, format, export, and convert script output Run Windows PowerShell flexibly, using background and scheduled jobs Customize your environment with profile scripts, alternate credentials, thirdparty tools, and packages Strengthen your control over Windows systems

and services with Desired State Configuration Administer key tasks on SQL Server, SharePoint, and other Windows servers Master PowerShell skills needed to earn many Microsoft certifications Conquer SQL Server 2019 administration—from the inside out Dive into SQL Server 2019 administration—and really put your SQL Server DBA expertise to work. This supremely organized reference packs hundreds of timesaving solutions, tips, and workarounds—all you need to plan, implement, manage, and secure SQL Server 2019 in any production environment: on-premises, cloud, or hybrid. Six experts thoroughly tour DBA capabilities available in SQL Server 2019 Database Engine, SQL Server Data Tools, SQL Server Management Studio, PowerShell, and Azure Portal. You'll find extensive new coverage of Azure SQL, big data clusters, PolyBase, data protection, automation, and more. Discover how experts tackle today's essential tasks—and challenge yourself to new levels of mastery. Explore SQL Server 2019's toolset, including the improved SQL Server Management Studio, Azure Data Studio, and Configuration Manager Design, implement, manage, and govern on-premises, hybrid, or Azure database infrastructures Install and configure SQL Server on Windows and Linux Master modern maintenance and monitoring with extended events, Resource Governor, and the SQL Assessment API Automate tasks with maintenance plans, PowerShell, Policy-Based Management, and more Plan and manage data recovery, including hybrid backup/restore, Azure SQL Database recovery, and geo-replication Use availability groups for high availability and disaster recovery Protect data with Transparent Data Encryption, Always Encrypted, new Certificate Management capabilities, and other advances Optimize databases with SQL Server 2019's advanced performance and indexing features Provision and operate Azure SQL Database and its managed instances Move SQL Server workloads to Azure: planning, testing, migration, and post-migration

The compilation of best skillset to harness Microsoft Dynamics NAV for Administrators, Consultants, and Developers About This Book Take your skills to the next level with Dynamics NAV by implementing all the latest and advanced features Get a comprehensive coverage of how the NAV system can be implemented and maintained to get the most out of it Get powerful insights into how to integrate Dynamics NAV with third-party tools and extend its functionality Who This Book Is For This book is ideal for administrators, developers, and consultants who are looking to take their knowledge of Dynamics NAV to new heights. You're expected to have a basic knowledge of Dynamics NAV workflows and C/AL, C/SIDE development. What You Will Learn Installing the NAV system in different environments Implementing the system with the correct setup Maintaining the system to get the best possible performance Tuning up the Dynamics NAV to get better outcomes The Version Control strategy for Dynamics NAV developers Integrating other software and features to remove limitations Understanding your own system better Being able to solve customers' problems with “out-of-the-box” features Reducing customization and additional development time In Detail The book begins by giving you a brief introduction to setting up your NAV environment and shows you how to install and configure it according to your requirements. You will then dive deep into the latest design patterns, network architecture, and topologies. We will show you how you can integrate NAV with the Microsoft platform, and secure your deployment by managing roles and permissions. Moving on, we will explain how to monitor and manage server instances using the Administration tool. We'll discuss how you can take advantage of the expanded extensibility and connectivity capabilities for a tighter integration with the cloud as well as handheld devices. Then, we'll show you how you can make use of the PowerBI capabilities that have been built into Dynamics NAV. By the end of the book, you will be confident in developing and administering a Dynamics NAV implementation that will leverage all of the new features. Style and approach This book takes a straightforward tutorial approach, providing you with step-by-step explanations and simple example-oriented walkthroughs. It is filled with use cases and situations that show you the different pitfalls you might encounter and how to get past them.

Learn how to install, configure, and maintain the latest release of Microsoft's popular SharePoint Server, SharePoint 2016. This latest version brings with it many changes for IT professionals. With this book you will learn how to create an efficient and stable SharePoint environment for your organization. What You'll Learn Install SharePoint Server 2016, both using the user interface provided by Microsoft, and by using PowerShell Understand your authentication options and associated security considerations Deploy add-ins, either from the store, or from your own custom app catalog Configure Search Service Application using either the provided UI or PowerShell Configure business intelligence components such as Excel Services, SQL Server Reporting Services, and PowerPivot Migrate to SharePoint Server 2016 from either SharePoint Server 2010 or 2013 Understand approaches to high availability, disaster recovery, patching, and ways to monitor and maintain your SharePoint 2016 deployment once it's up and running Who This Book Is For Anyone tasked with installing, configuring, and maintaining SharePoint Server 2016 in their organization. This book assumes some working knowledge of a previous release of SharePoint Server, such as SharePoint 2010 or SharePoint 2013

This is an easy-to-follow hands-on tutorial that includes real world examples of SQL Server 2014's new features. Each chapter is explained in a step-by-step manner which guides you to implement the new technology. If you want to create a highly efficient database server then this book is for you. This book is for database professionals and system administrators who want to use the added features of SQL Server 2014 to create a hybrid environment, which is both highly available and allows you to get the best performance from your databases.

Your hands-on, step-by-step guide to automating Windows administration with Windows PowerShell 3.0 Teach yourself the fundamentals of Windows PowerShell 3.0 command line interface and scripting language—one step at a time. Written by a leading scripting expert, this practical tutorial delivers learn-by-doing exercises, timesaving tips, and hands-on sample scripts for performing administrative tasks on both local and remote Windows systems. Discover how to: Use built-in cmdlets to execute commands Write scripts to handle recurring tasks Use providers to access information beyond the shell environment Configure network components with Windows Management Instrumentation Manage users, groups, and computers with Active Directory services Execute scripts to administer and troubleshoot Microsoft Exchange Server 2010

How do you use PowerShell to navigate the filesystem, manage files and folders, or retrieve a web page? This introduction to the PowerShell language and scripting environment provides more than 400 task-oriented recipes to help you solve all kinds of problems. Intermediate to advanced system administrators will find more than 100 tried-and-tested scripts they can copy and use immediately. Updated for PowerShell 5, Open Source PowerShell up to 7 and beyond, this comprehensive cookbook includes hands-on recipes for common tasks and administrative jobs that you can apply whether you're on the client or server version of Windows. You also get quick references to technologies used in conjunction with PowerShell, including format specifiers and frequently referenced registry keys to selected .NET, COM, and WMI classes. Learn how to use PowerShell on Windows 10 and Windows Server 2019 Tour PowerShell's core features, including the command model, object-based pipeline, and ubiquitous scripting Master fundamentals such as the interactive shell, pipeline, and object concepts Perform common tasks that involve working with files, Internet-connected scripts, user interaction, and more Solve tasks in systems and enterprise management, such as working with Active Directory and the filesystem

This book is an easy-to-follow, comprehensive guide that is full of hands-on examples, which you can follow to successfully design, build, and deploy mission-critical database applications with SQL Server 2014. If you are a database developer, architect, or administrator who wants to learn how to design, implement, and deliver a successful database solution with SQL Server 2014, then this book is for you. Existing users of Microsoft SQL Server will also benefit from this book as they will learn what's new in the latest version.

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