

# Automating Administration With Windows Powershell 2 Pdf

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**Windows PowerShell Unleashed** Tyson Kopczynski 2008-12-04 PowerShell gives Windows administrators immense power to automate and customize virtually any administrative task—saving time, increasing productivity, and giving you unprecedented flexibility. PowerShell 2.0 adds important new features that offer even greater control over Windows environments. Windows PowerShell Unleashed will not only give you deep mastery over PowerShell but also a greater understanding of the features being introduced in PowerShell 2.0—and show you how to use it to solve your challenges in your production environment. The authors begin by systematically illuminating PowerShell’s core concepts and techniques, helping you leverage whatever Windows scripting experience you may already have. Next, using complete, easy-to-adapt examples, they show how to use PowerShell to manage file systems, permissions, the Registry, WMI objects, Active Directory, Exchange Server, and many other elements of the Windows environment. More than half of this edition’s material and examples have been completely rewritten for PowerShell 2.0, and the authors have added seven entirely new chapters—covering security, PowerShell application development, Systems Center Operations Manager 2007, and much more. Whatever Windows systems you manage, Windows PowerShell Unleashed contains the scripts and techniques you need to manage them far more effectively. Install, configure, and customize PowerShell 2.0 and master its command line interface Discover proven best practices for PowerShell scripting Make the most of PowerShell cmdlets—especially the new cmdlets included in PowerShell 2.0 Leverage PowerShell’s deep .NET Framework integration Secure your scripts using code signing, execution policies, and PowerShell’s built-in security Use custom script functions to manage permissions more efficiently Control the registry locally and remotely and use PowerShell’s powerful new registry transactions Use PowerShell as a management interface Automate Exchange Server 2007 administrative tasks Automate the management of Microsoft’s new System Center Operations Manager 2007 Preview the forthcoming Graphical PowerShell scripting environment Understand how to manage Active Directory using PowerShell Master using PowerShell with WMI Learn PowerShell 2.0 remoting *Instant Windows PowerShell* Vinith Menon 2013-10-25 Get to grips with a new technology, understand what it is and what it can do for you, and then get to work with the most important features and tasks. A practical, hands-on tutorial approach that explores the concepts of PowerShell in a friendly manner, taking an adhoc approach to each topic.If you are an administrator who is new to PowerShell or are looking to get a good grounding in these new features, this book is ideal for you. It’s assumed that you will have some experience in PowerShell and Windows Server, as well being familiar with the PowerShell command-line.

*Windows PowerShell Best Practices* Ed Wilson 2014-01-15 Expert recommendations, pragmatically applied. Automate system administration using Windows PowerShell best practices—and optimize your operational efficiency. With this practical guide, Windows PowerShell expert and instructor Ed Wilson delivers field-tested tips, real-world examples, and candid advice culled from administrators across a range of business and technical scenarios. If you’re an IT professional with Windows PowerShell experience, this book is ideal. Discover how to: Use Windows PowerShell to automate Active Directory tasks Explore available WMI classes and methods with CIM cmdlets Identify and track scripting opportunities to avoid duplication Use functions to encapsulate business logic and reuse code Design your script’s best input method and output destination Test scripts by checking their syntax and performance Choose the most suitable method for running remote commands Manage software services with Desired State Configuration *PowerShell Core for Linux Administrators Cookbook* Prashanth Jayaram 2018-11-30 Over 150 recipes to leverage Microsoft’s open source automation framework and command line shell Key FeaturesWork effectively on Windows, Linux, and macOS with PowerShell’s object-oriented approach and capabilitiesHandle structured data seamlessly without the need for manual parsingEnhance your native Linux capabilities with PowerShell Core 6.1Book Description PowerShell Core, the open source, cross-platform that is based on the open source, cross-platform .NET Core, is not a shell that came out by accident; it was intentionally created to be versatile and easy to learn at the same time. PowerShell Core enables automation on systems ranging from the Raspberry Pi to the cloud. PowerShell Core for Linux Administrators Cookbook uses simple, real-world examples that teach you how to use PowerShell to effectively administer your environment. As you make your way through the book, you will cover interesting recipes on how PowerShell Core can be used to quickly automate complex, repetitive, and time-consuming tasks. In the concluding chapters, you will learn how to develop scripts to automate tasks that involve systems and enterprise management. By the end of this book, you will have learned about the automation capabilities of PowerShell Core, including remote management using OpenSSH, cross-platform enterprise management, working with Docker containers, and managing SQL databases. What you will learnLeverage the object model of the shell, which is based on .NET CoreAdminister computers locally as well as remotely using PowerShell over OpenSSHGet to grips with advanced concepts of PowerShell functionsUse PowerShell for administration on the cloudKnow the best practices pertaining to PowerShell scripts and functionsExploit the cross-platform capabilities of PowerShell to manage scheduled jobs, Docker containers and SQL DatabasesWho this book is for PowerShell Core for Linux Administrators Cookbook is for you if you are a system administrator who wants to learn to control and automate a Linux environment with PowerShell Core 6.1. Basic knowledge of PowerShell scripting is necessary. It is assumed that you already understand how an operating system is structured and how to use the command-line interface to work with the operating system.

**AUTOMATING MICROSOFT SHAREPOINT 2010 ADMINISTRATION WITH WINDOWS POWERSHELL 2.0** Gary Lapointe 2011-07-01 Market\_Desc: SharePoint professionals, new or experienced with PowerShell, who are responsible for deploying or managing SharePoint 2010. Special Features: · HUGE INSTALLED BASE: Over 100 million SharePoint licensees.· STRONG AUTHOR PLATFORM: Written by authors who are active members of the SharePoint community. Shannon Bray is the President of the Colorado State SharePoint User Group and presents at various tradeshows such as TechEd and TechReady. Gary Lapointe is widely recognized for his work with STSADM and PowerShell.· HOT TOPICS: According to CIO Magazine (January 2010), collaboration technologies is among the top 10 areas of interest for IT decision makers. Also, it is widely agreed that Windows PowerShell 2.0 is one of the top 10 features in SharePoint 2010.· PROMISING SIGNS FOR SHAREPOINT 2010 ADOPTION: According to a survey conducted by Metalogix, about 46% of current SharePoint users have plans to migrate to SharePoint 2010 in 2010.· UNIQUE CONTENT: The timing of our book allows real world perspective as well as scripts from an author who’s expertise is sought out by thousands of SharePoint administrators daily. About The Book: Imagine being able to perform a task that requires dozens of clicks with just a single command, or automate a series of identical tasks rather than repeat them. This book shows you how to do just that and more by using Windows PowerShell cmdlets with SharePoint 2010. Focused on everyday and frequently performed tasks, this invaluable guide provides PowerShell solutions for maintaining a SharePoint environment and explains how more than 500 cmdlets that come with SharePoint 2010 allows you to automate just about anything. Step-by-step instructions walk you through the necessary concepts and real-world examples enhance your learning process.

**Mastering PowerShell Scripting** Chris Dent 2021-06-29 This complete guide takes you on a tour of PowerShell from the basics to its advanced functionality, helping you

automate your tedious and time-consuming system admin tasks Key Features Automate complex tasks, manipulate data, and secure your environment Work with dual code for PowerShell 7 and Windows PowerShell to maintain compatibility with older versions See PowerShell in action, from learning the fundamentals to creating classes, scripts, and modules Book Description PowerShell scripts offer a convenient way to automate various tasks, but working with them can be daunting. Mastering PowerShell Scripting takes away the fear and helps you navigate through PowerShell’s capabilities.This extensively revised edition includes new chapters on debugging and troubleshooting and creating GUIs (online chapter). Learn the new features of PowerShell 7.1 by working with parameters, objects, and .NET classes from within PowerShell 7.1. This comprehensive guide starts with the basics before moving on to advanced topics, including asynchronous processing, desired state configuration, using more complex scripts and filters, debugging issues, and error-handling techniques. Explore how to efficiently manage substantial amounts of data and interact with other services using PowerShell 7.1. This book will help you to make the most of PowerShell’s automation features, using different methods to parse data, manipulate regular expressions, and work with Windows Management Instrumentation (WMI). What you will learn Optimize code with functions, switches, and looping structures Test and debug your scripts as well as raising and catching errors Work with objects and operators to test and manipulate data Parse and manipulate different data types Use jobs, runspaces, and runspace pools to run code asynchronously Write .NET classes with ease within PowerShell Create and implement regular expressions in PowerShell scripts Make use of advanced techniques to define and restrict the behavior of parameters Who this book is for This book is for system administrators who want to automate and speed up their processes using PowerShell and Windows PowerShell. You’ll need to know the basics of operating systems, but beginners with no prior experience with PowerShell will have no trouble following along. **Essential PowerShell for Office 365** Vlad Catrinescu 2018-03-27 Take your Office 365 skills to the next level. Master PowerShell for Office 365 to stay competitive in today’s world of highly sought after cloud management skills. With expert guidance, IT pros will learn how to leverage the muscle of PowerShell to automate many advanced administrative tasks not otherwise accessible in the Office 365 Admin Center. You will discover how to unlock configuration options and automate tasks in order to free up valuable time and resources. This book is your companion to administering Office 365 with PowerShell. You will learn time-saving techniques such as how to streamline administrative tasks, and how to manage users, licenses, and Office 365 services. Expert and MVP Vlad Catrinescu introduces each chapter with an overview and basic fundamentals, such as how to connect to your required service in Office 365, so that you have a solid foundation for success. Benefit from learning the theory behind PowerShell for Office 365 and put your knowledge to practice with numerous hands-on code examples. What You’ll Learn Manage users in bulk Export data such as user lists and groups Create and manage Office 365 groups Manage Exchange online distribution lists, mailboxes, and contacts Configure Skype for Business settings Perform compliance searches directly from PowerShell Who This Book Is For Any IT pro who needs to manage Office 365 or one of its services such as Exchange, SharePoint, or Skype for Business. Readers should have a basic knowledge of PowerShell and the Office 365 service they want to manage.

**Mastering Windows PowerShell Scripting** Chris Dent 2017-10-27 Master the art of automating and managing your environment using PowerShell About This Book Find quick solutions to automate your environment with ease Work with large amounts of data effortlessly with PowerShell data types and secure them Packed with real-world examples to automate and simplify the management of your Windows environment Who This Book Is For If you are a system administrator who wants to become an expert in controlling and automating your Windows environment, then this book is for you. It is also for those new to the PowerShell language. What You Will Learn Optimize code through the use of functions, switches, and looping structures Install PowerShell on your Linux system Utilize variables, hashes, and arrays to store data Work with Objects and Operators to test and manipulate data Parse and manipulate different data types Write .NET classes with ease within the PowerShell Create and implement regular expressions in PowerShell scripts Deploy applications and code with PowerShell’s Package management modules Leverage session-based remote management Manage files, folders, and registries through the use of PowerShell In Detail PowerShell scripts offer a handy way to automate various chores. Working with these scripts effectively can be a difficult task. This comprehensive guide starts from scratch and covers advanced-level topics to make you a PowerShell expert. The first module, PowerShell Fundamentals, begins with new features, installing PowerShell on Linux, working with parameters and objects, and also how you can work with .NET classes from within PowerShell. In the next module, you’ll see how to efficiently manage large amounts of data and interact with other services using PowerShell. You’ll be able to make the most of PowerShell’s powerful automation feature, where you will have different methods to parse and manipulate data, regular expressions, and WMI. After automation, you will enter the Extending PowerShell module, which covers topics such as asynchronous processing and, creating modules. The final step is to secure your PowerShell, so you will land in the last module, Securing and Debugging PowerShell, which covers PowerShell execution policies, error handling techniques, and testing. By the end of the book, you will be an expert in using the PowerShell language. Style and approach This practical guide covers all the advanced PowerShell functionalities that an administrator needs to learn to automate their environments.

**Windows Server Automation with PowerShell Cookbook** Thomas Lee 2023-01-31 Use over 100 PowerShell 7.2 recipes to deepen your understanding of Windows Server 2022 and see how to automate common administrative tasks with ease Purchase of the print or Kindle book includes a free eBook in PDF format Key FeaturesNew edition updated to the latest version of PowerShell 7.2 and Windows Server 2022Discover new ways to optimize your PowerShell code by working through easy-to-follow recipesLearn PowerShell best practices to automate common tasks and manage DHCP in Microsoft Windows Server, objects in Active Directory, Hyper-V, and AzureBook Description The Windows Server Automation with PowerShell Cookbook is back with a new edition, featuring over 100 PowerShell recipes that will make your day-to-day work easier. This book is designed to help you learn how to install, configure and use PowerShell 7.2 effectively. To start with, we’ll look at how to install and configure PowerShell 7.2, along with useful new features and optimizations, and show you how the PowerShell compatibility solution bridges the gap to older versions of PowerShell. We’ll also be covering a wide range of fundamental and more advanced use cases, including how to create a VM and set up an Azure VPN, as well as looking at how to back up to Azure. As you progress, you’ll explore topics such as using PowerShell to manage networking and DHCP in Windows Server, objects in Active Directory, Hyper-V, and Azure. We’ll also take a closer look at WSUS, containers and see how to handle modules that are not directly compatible with PowerShell 7. Finally, you’ll also learn how to use some powerful tools to diagnose and resolve issues with Windows Server. By the end of this PowerShell book, you’ll know how to use PowerShell 7.2 to automate tasks on Windows Server 2022 with ease, helping your Windows environment to run faster and smoother. What you will learnPerform key admin tasks on Windows ServerKeep your organization secure with JEA, group policies, logs, and Windows DefenderUse .NET Framework for administrative scriptingManage data and storage on Windows, including disks, volumes, and filesystemsReport system performance using



built-in cmdlets and WMI to obtain single measurementsApply the right tools and modules to troubleshoot and debug Windows ServerCreate, manage, and back up a second VM using the subnetwork in AzureLearn how to set up a VPN in Azure with PowerShellWho this book is for This book is for systems administrators, software architects, developers, consultants, and engineers working with Windows Server 2022 who want to automate tasks more effectively with PowerShell 7.2. You'll need to have conquered the basics of PowerShell and have a rudimentary understanding of PowerShell scripting before you can get started with this book.

**Practical Automation with PowerShell** Matthew Dowst 2023-05-09 Take PowerShell beyond simple scripts and build time-saving automations for your team, your users, and the world. In Practical Automation with PowerShell you will learn how to: Build PowerShell functions to automate common and complex tasks Create smart automations that are adaptable to new challenges Structure your code for sharing and reusability Store and secure your automations Execute automations with Azure Automation, Jenkins, Task Scheduler, and Cron Share your automations with your team and non-technical colleagues Store and retrieve data, credentials, and variables Use source control solutions to maintain and test code changes Provide front-end UI solutions for PowerShell automations Practical Automation in PowerShell reveals how you can use PowerShell to build automation solutions for a huge number of common admin and DevOps tasks. Author Matthew Dowst uses his decades of experience to lay out a real blueprint for setting up an enterprise scripting environment with PowerShell. The book goes beyond the basics to show you how to handle the unforeseen complexities that can keep automations from becoming reusable and resilient. From the console to the cloud, you'll learn how to manage your code, avoid common pitfalls, and create sharable automations that are adaptable to different use cases. About the Technology The PowerShell scripting language is a force multiplier, giving you programmatic control over your whole data center. With this powerful tool, you can create reusable automations that radically improve consistency and productivity on your Ops team. This book shows you how to design, write, organize, and deploy scripts to automate operations on systems of all sizes, from local servers to enterprise clusters in the cloud. About the Book Practical Automation with PowerShell: Effective scripting from the console to the cloud shows you how to build PowerShell automations for local and cloud systems. In it, you'll find tips for identifying automatable tasks, techniques for structuring and managing scripts, and lots of well-explained example code. You'll even learn how to adapt existing scripts to new use cases and empower non-technical users through easy-to-understand SharePoint frontends. What's Inside Structure PowerShell code for sharing and reusability Store and secure your automations Execute automation with Azure Automation, Jenkins, Task Scheduler, and Cron Store and retrieve data, credentials, and variables Use source control solutions to maintain and test code changes About the Reader For sysadmin and IT professionals who manage backend systems. About the Author Matthew Dowst has over 15 years of experience in IT management and consulting. Table of contents PART 1 1 PowerShell automation 2 Get started automating PART 2 3 Scheduling automation scripts 4 Handling sensitive data 5 PowerShell remote execution 6 Making adaptable automations 7 Working with SQL 8 Cloud-based automation 9 Working outside of PowerShell 10 Automation coding best practices PART 3 11 End-user scripts and forms 12 Sharing scripts among a team 13 Testing your scripts 14 Maintaining your code

*PowerShell in Practice* Richard Siddaway 2010-06-07 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 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.

**Mastering Windows PowerShell Scripting** Brenton J.W. Blawat 2015-04-27 If you are a system administrator who wants to become an expert in controlling and automating your Windows environment, then this book is for you. Prior knowledge of PowerShell's core elements and applications is required for this book.

*PowerShell Core 6.2 Cookbook* Jan-Hendrik Peters 2019-04-19 Make use of hands-on recipes for many tasks that are typically encountered in both the on-premises as well as the cloud world. Key FeaturesA recipe-based guide to help you build effective administrative solutionsGain hands-on experience with the newly added features of PowerShell CoreManage critical business environments with professional scripting practicesBook Description This book will follow a recipe-based approach and start off with an introduction to the fundamentals of PowerShell, and explaining how to install and run it through simple examples. Next, you will learn how to use PowerShell to access and manipulate data and how to work with different streams as well. You will also explore the object model which will help with regard to PowerShell function deployment. Going forward, you will get familiar with the pipeline in its different use cases. The next set of chapters will deal with the different ways of accessing data in PowerShell. You will also learn to automate various tasks in Windows and Linux using PowerShell Core, as well as explore Windows Server. Later, you will be introduced to Remoting in PowerShell Core and Just Enough Administration concept. The last set of chapters will help you understand the management of a private and public cloud with PowerShell Core. You will also learn how to access web services and explore the high-performance scripting methods. By the end of this book, you will gain the skills to manage complex tasks effectively along with increasing the performance of your environment. What you will learnLeverage cross-platform interaction with systemsMake use of the PowerShell recipes for frequent tasksGet a better understanding of the inner workings of PowerShellUnderstand the compatibility of built-in Windows modules with PowerShell CoreLearn best practices associated with PowerShell scriptingAvoid common pitfalls and mistakesWho this book is for This book will be for windows administrators who want to enhance their PowerShell scripting skills to the next level. System administrators wanting to automate common to complex tasks with PowerShell scripts would benefit from this book. Prior understanding on PowerShell would be necessary.

**Pro PowerShell for Microsoft Azure** Sherif Talaat 2015-11-24 This book is written for Windows professionals who are familiar with PowerShell and want to learn to build, operate, and administer their Windows workloads in the Microsoft cloud. Pro PowerShell for Microsoft Azure is packed with practical examples and scripts, with easy-to-follow explanations for a wide range of day-to-day needs and essential administration tasks. Author Sherif Talaat begins by explaining the fundamental concepts behind the Microsoft Azure platform and how to get started configuring it through PowerShell. Readers will find out how to deploy, configure and manage the various components of the Azure platform, from storage and virtual networks to Azure Web Sites, HDInsight clusters and the Azure SQL Database. Workload automation, scheduling and resource management are covered in depth to help build efficiency in everyday tasks, and administrators will gain full control over Azure identity and access rights using Azure Active Directory and Rights Management Services. Put your PowerShell skills to good use and ensure that your applications and data are available anywhere at any time, with Pro PowerShell for Microsoft Azure. What You'll Learn Create and manage virtual networks and VPNs using PowerShell. Configure and maintain Azure Storage accounts, blobs, and containers. Provision and manage a redundant Windows or Linux server. Deploy and configure your sites in the cloud using Microsoft Azure Web Sites. Provision Apache Hadoop clusters in the cloud using Azure HDInsight. Deploy, configure and manage a Microsoft Azure SQL Database. Protect and secure identities and resources with Azure Active Directory and Azure Rights Management Services. Who This Book Is For This is book is for the intermediate to advanced Windows professional who is ready to make the leap to the cloud.

**PowerShell in Depth** Don Jones 2014-10-31 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 PSSnapsins 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

**Automating Active Directory Administration with Windows PowerShell 2.0** Ken St. Cyr 2011-06-01 Focused content on automating the user authentication and authorization tool for Windows environments Automation helps make administration of computing environments more manageable. It alleviates the repetition of repeating frequent tasks and automates just about any task for Active Directory, Windows PowerShell 2.0. Focused on everyday and frequently performed tasks, this indispensable guide provides you with the PowerShell solutions for these tasks. Solutions are presented in a step-by-step format so that you can fully grasp how the new Active Directory module for PowerShell provides command-line scripting for administrative, configuration, and diagnostic tasks. Walks you through the processes and tools required to automate everyday tasks Offers PowerShell solutions for maintaining a Windows Server 2008 R2 environment Includes real-world examples, explanations of concepts, and step-by-step solutions This unique book allows you to work more efficiently and effectively and keep up with the ever-increasing demands from businesses. *Windows Server 2012 Automation with PowerShell Cookbook* Ed Goad 2015-01-07 If you work on a daily basis with Windows Server 2012, this book will make life easier by teaching you the skills to automate server tasks with PowerShell scripts, all delivered in recipe form for rapid implementation. Overview Extend the capabilities of your Windows environment. Improve the process reliability by using well defined PowerShell scripts. Full of examples, scripts, and real-world best practices. In Detail Automating server tasks allows administrators to repeatedly perform the same, or similar, tasks over and over again. With PowerShell scripts, you can automate server tasks and reduce manual input, allowing you to focus on more important tasks. Windows Server 2012 Automation with PowerShell will show several ways for a Windows administrator to automate and streamline his/her job. Learn how to automate server tasks to ease your day-to-day operations, generate performance and configuration reports, and troubleshoot and resolve critical problems. Windows Server 2012 Automation with PowerShell will introduce you to the advantages of using Windows Server 2012 and PowerShell. Each recipe is a building block that can easily be combined to provide larger and more useful scripts to automate your systems. The recipes are packed with examples and real world experience to make the job of managing and administrating Windows servers easier. The book begins with automation of common Windows Networking components such as AD, DHCP, DNS, and PKI, managing Hyper-V, and backing up the server environment. By the end of the book you will be able to use PowerShell scripts to automate tasks such as performance monitoring, reporting, analyzing the environment to match best practices, and troubleshooting. What you will learn from this book Streamline routine administration processes. Automate the implementation of entire AD infrastructures. Generate automatic reports that highlight unexpected changes in your environment. Monitor performance and report on system utilization in detailed graphs and analysis. Create and manage a reliable and redundant Hyper-V environment. Utilize the Best Practices Analyzer from Microsoft to ensure your environment is configured optimally. Manage the patch level of your enterprise. Utilize multiple protocols to share information in a heterogeneous environment. Approach Cookbook with recipes based on real life examples. Who this book is written for This book is written to assist the daily tasks for systems administrators, engineers, and architects working with Windows Server 2012.

**Windows PowerShell 3.0 First Steps** Ed Wilson 2013-07-15 Get started with this powerful Windows administration tool Automate Windows administration tasks with ease by learning the fundamentals of Windows PowerShell 3.0. Led by a Windows PowerShell expert, you'll learn must-know concepts and techniques through easy-to-follow explanations, examples, and exercises. Once you complete this practical introduction, you can go deeper into the Windows PowerShell command line interface and scripting language with Windows PowerShell 3.0 Step by Step. Discover how to: Create effective Windows PowerShell commands with one line of code Apply Windows PowerShell commands across several Windows platforms Identify missing hotfixes and service packs with a single command Sort, group, and filter data using the Windows PowerShell pipeline Create users, groups, and organizational units in Active Directory Add computers to a domain or workgroup with a single line of code Run Windows PowerShell commands on multiple remote computers Unleash the power of scripting with Windows Management Instrumentation (WMI)

**Learn Windows PowerShell in a Month of Lunches** Don Jones 2011-05-17 In Windows, there's a control panel, dialog box, console, or wizard to manage every component of a system. There are thousands of them—so many that it can be nearly impossible to keep track of all the locations and settings one needs to administer Windows effectively. PowerShell provides administrators with a single, unified command line from which they can control and automate every aspect of Windows. Learn Windows PowerShell in a Month of Lunches is an innovative tutorial designed for busy administrators. Author Don Jones has taught thousands of administrators to use PowerShell, and now he brings his

years of training techniques to a concise, easy-to-follow book. Just set aside one hour a day—lunchtime would be perfect—for an entire month, and readers will be automating administrative tasks faster than they ever thought possible. 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.

*Learn PowerShell in a Month of Lunches, Fourth Edition* Travis Plunk 2022-04-26 Designed for busy IT professionals, this innovative guide will take you from the basics to PowerShell proficiency through 25 tutorials you can do in your lunch break. Learn PowerShell in a Month of Lunches, Fourth Edition is a task-focused guide for administering your systems using PowerShell. It covers core language features and admin tasks, with each chapter a mini-tutorial you can easily complete in under an hour. Discover how PowerShell works on different operating systems, and start automating tasks so they take just a few seconds to complete. No previous scripting experience required. The book is based on the bestselling Learn Windows PowerShell in a Month of Lunches by community legends Don Jones and Jeffrey Hicks. PowerShell team members Travis Plunk and Tyler Leonhard and Microsoft MVP James Petty have updated this edition to the latest version of PowerShell, including its multi-platform expansion into Linux and macOS. PowerShell gives you complete command line control over admin tasks like adding users, exporting data, and file management. Whether you're writing one-liners or building complex scripts to manage cloud resources and CI/CD pipelines, PowerShell can handle the task. And now that PowerShell is truly cross-platform, you don't have to switch scripting languages when you move between Windows, Linux, and macOS. Learn PowerShell in a Month of Lunches, Fourth Edition is a new edition of the bestseller that introduced PowerShell to over 100,000 readers. With bite-sized lessons and hands-on exercises, this amazing book guides you from your first command to writing and debugging reusable scripts for Windows, Linux, and macOS. Set aside just an hour a day and you'll soon be tackling increasingly complex automation tasks with PowerShell.

**Windows PowerShell 3.0 Step by Step** Ed Wilson 2013-02-15 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

**AUTOMATING MICROSOFT WINDOWS SERVER 2008 R2 ADMINISTRATION WITH WINDOWS POWERSHELL 2.0** Matthew Hester 2011-07-01 Market\_Desc: Primary: Windows administrators--those new to PowerShell and transitioning from Powershell 1.0 to 2.0. Secondary: Developers. Special Features: · GROWING POWERSHELL USERS: PowerShell is the management tool all Windows administrators will have to eventually use, as it is a software requirement for installing Windows Server 2008 R2 (as well as other Microsoft core infrastructure products) and there are administrative tasks that can only be done with PowerShell.· AUTOMATION IS AN IT TREND: Gartner predicts by 2013, 35% of system administration will be automated, and in 2018, there will be a huge and fast shift to automation with 55% of processes being automated.· STRONG AUTHOR PLATFORM: Matthew Hester is an IT Pro Evangelist for Microsoft, is heavily involved with the IT Pro community and has been for over 15 years, and presents to audiences all around the world.· UNIQUE CONTENT: Unlike the competition, this book provides screen casts for exercises that appear at the end of each chapter. The screen casts presents the exercise solutions, talking and walking the reader step by step through the exercises. (Solutions are available inside the book as well.)· #1SERVER OPERATING SYSTEM: Windows Server is the top network operating system in the world. About The Book: Windows PowerShell 2.0 allows you to automate nearly any task for managing Windows Server, going from dozens of clicks to a single command, and repeated tasks to automated tasks. Using screen shots and helpful exercises, this book walks you through the many benefits of automating Windows Server with PowerShell 2.0, such as allowing for scalable, flexible, and rapid deployments and changes; increasing cost effectiveness; providing a timely return on IT investment; lowering labor headcount; creating secure computing environments; and establishing reliable enterprise infrastructures. In addition, real-world examples provide reinforced learning, aimed at ensuring that you work as efficiently and effectively as possible by automating both simple and complex administrative tasks with Powershell 2.0. **Windows PowerShell 2.0 Bible** Thomas Lee 2011-09-26 Here's the complete guide to Windows PowerShell 2.0 for administrators and developers Windows PowerShell is Microsoft's next-generation scripting and automation language. This comprehensive volume provides the background that IT administrators and developers need in order to start using PowerShell automation in exciting new ways. It explains what PowerShell is, how to use the language, and specific ways to apply PowerShell in various technologies. Windows PowerShell is Microsoft's standard automation tool and something that every Windows administrator will eventually have to understand; this book provides the background necessary to apply PowerShell automation. Covers how to use the language and specific ways to apply PowerShell in a variety of scenarios Addresses new features in the latest version of PowerShell and the additional functionality delivered by new products that provided direct or indirect ways to use PowerShell for scripting and automation purposes Explores the language fundamentals and how to use PowerShell for desktop, server, server application, and virtualization/cloud situations This thorough guide goes well beyond theory to offer real-world information and new scripting techniques, enabling administrators and developers to make the most of PowerShell 2.0.

**Windows PowerShell 2.0 Administrator's Pocket Consultant** William Stanek 2009-05-27 Portable and precise, this pocket-sized guide delivers ready answers for automating everyday system-administration tasks with Windows PowerShell. Zero in on core commands and techniques using quick-reference tables, instructions, and lists. You'll get the focused information you need to save time and get the job done—whether at your desk or in the field. Get fast facts to: Run core cmdlets—singly or in sequence—to streamline daily tasks Execute remote commands and background jobs Inventory computers; tweak configurations; manage domains Configure server roles, role services, and features Manage and troubleshoot TCP/IP networking Administer file systems, directories, and print services Implement security settings, event logs, and auditing Read and write registry values Automate system monitoring and performance tuning Extend Windows PowerShell with snap-ins and module extensions

**Getting Started with PowerShell** Michael Shepard 2015-08-27 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.

**Windows PowerShell 2.0 Best Practices** Ed Wilson 2009-12-16 Apply best practices for automating system administration with Windows PowerShell 2.0 and optimize your operational efficiency and results. This guide captures the field-tested tips, real-world lessons, and candid advice of practitioners across the range of business and technical scenarios and across the scripting life cycle. Discover how to: Take advantage of new features and cmdlets in Windows PowerShell 2.0 Plan scripting usage scenarios and define standards Deploy Windows PowerShell 2.0 to desktops and servers Configure scripting environments Optimize remote scripting capabilities Work with Active Directory and WMI Design functions and modules Optimize input and output Handle errors Document scripts Test and troubleshoot scripts Avoid scripting pitfalls The companion CD includes a fully searchable eBook and sample scripts. For customers who purchase an ebook version of this title, instructions for downloading the CD files can be found in the ebook.

**Automating Microsoft Windows Server 2008 R2 with Windows PowerShell 2.0** Matthew Hester 2011-05-04 Learn to automate the top server operating system, Windows Server 2008 R2 Windows PowerShell 2.0 allows you to automate nearly any task for managing Windows Server, going from dozens of clicks to a single command, and repeated tasks to automated tasks. Using screen shots and helpful exercises, this book walks you through the many benefits of automating Windows Server with PowerShell 2.0, such as allowing for scalable, flexible, and rapid deployments and changes; increasing cost effectiveness; providing a timely return on IT investment; lowering labor headcount; creating secure computing environments; and establishing reliable enterprise infrastructures. In addition, real-world examples provide reinforced learning, aimed at ensuring that you work as efficiently and effectively as possible by automating both simple and complex administrative tasks with Powershell 2.0. Explains how to automate both simple and complex tasks in Windows Server 2008 R2 with Powershell 2.0 Addresses how Windows Server 2008 R2 comes with more than 550 cmdlets, allowing you to automate nearly anything Offers numerous real-world examples, end-of-chapter exercises, and helpful screen shots to reinforce your learning process The power is in your hands! Start working smarter, not harder, by automating Windows Server 2008 R2 tasks with Powershell 2.0.

**PowerShell and WMI** Richard Siddaway 2012-04-29 Summary PowerShell and WMI is an example-driven guide for administrators managing networks of Windows servers and desktops. With 150 practical examples, including ready-to-reuse scripts and techniques, you'll learn the ins and outs of automating WMI via PowerShell v3. You'll also find deep coverage of all aspects of Windows administration, including IIS, DNS and Hyper-V. About the Technology WMI, on its own, is simply a collection of Windows management facilities. Paired with PowerShell, however, WMI becomes a brilliant toolset for automating servers, networks, and remote Windows computers. About the Book PowerShell and WMI is an industrial-strength guide for administrators of Windows networks, servers, and desktops. You'll start with practical overviews of PowerShell and of WMI. Then you'll explore 150 specific examples—all with ready-to-use scripts—designed to simplify your day-to-day system management. Each tested technique is configured to load as part of a PowerShell module. A set of handy appendices includes references for PowerShell and WMI. Prior exposure to PowerShell and WMI is helpful but not required. 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. What's Inside Managing Windows, IIS, and Hyper-V Remote desktops and devices Logs, jobs, and performance New PowerShell v3 WMI functionality ===== Table of Contents PART 1 TOOLS OF THE TRADE Solving administrative challenges Using PowerShell WMI in depth Best practices and optimization PART 2 WMI IN THE ENTERPRISE? System documentation Disk systems Registry administration Filesystem administration Services and processes Printers Configuring network adapters Managing IIS Configuring a server Users and security Logs, jobs, and performance Administering Hyper-V with PowerShell and WMI PART 3 THE FUTURE: POWERSHELL V3 AND WMI WMI over WSMAN Your own WMI cmdlets CIM cmdlets and sessions *Learn PowerShell Core 6.0* David das Neves 2018-07-26 Enhance your skills in expert module development, deployment, security, DevOps, and cloud Key Features A step-by-step guide to get you started with PowerShell Core 6.0 Harness the capabilities of PowerShell Core 6.0 to perform simple to complex administration tasks Learn core administrative concepts such as scripting, pipelines, and DSC Book Description Beginning with an overview of the different versions of PowerShell, Learn PowerShell Core 6.0 introduces you to VSCode and then dives into helping you understand the basic techniques in PowerShell scripting. You will cover advanced coding techniques, learn how to write reusable code as well as store and load data with PowerShell. This book will help you understand PowerShell security and Just Enough Administration, enabling you to create your own PowerShell repository. The last set of chapters will guide you in setting up, configuring, and working with Release Pipelines in VSCode and VSTS, and help you understand PowerShell DSC. In addition to this, you will learn how to use PowerShell with Windows, Azure, Microsoft Online Services, SCCM, and SQL Server. The final chapter will provide you with some use cases and pro tips. By the end of this book, you will be able to create professional reusable code using security insight and knowledge of working with PowerShell Core 6.0 and its most important capabilities. What you will learn Get to grips with PowerShell Core 6.0 Explore basic and advanced PowerShell scripting techniques Get to grips with Windows PowerShell Security Work with centralization and DevOps with PowerShell Implement PowerShell in your organization through real-life examples Learn to create GUIs and use DSC in production Who this book is for If you are a Windows administrator or a DevOps user who wants to leverage PowerShell to automate simple to complex tasks, then this book is for you. Whether you know nothing about Powershell or just enough to get by, this guide will give you what you need to go to take your scripting to the next level. You'll also find this book useful if you're a PowerShell expert looking to expand your knowledge in areas such as PowerShell Security and DevOps.

**Professional Windows PowerShell** Andrew Watt 2007-07-17 MSH is a new command-line shell for Microsoft server products, including the long-awaited Longhorn server, and will eventually ship with all major Microsoft products, making it the must-know technology MSH will replace current command lines in new Microsoft products and can be used to



write shell scripts similar to those used with Unix and Linux Discusses how MSH enables all of the .NET Framework objects to become accessible via scripting, making it a very powerful addition to any developer's or administrator's toolbox Readers are guided through all the ins and outs of MSH and learn how to create powerful solutions; run scripts, programs, and commands; customize the MSH environment; handle data; manage files and disks; and script solutions and .NET objects

**Microsoft SQL Server 2008 Administration with Windows PowerShell** Yan Pan 2011-01-06 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.

**Automating SharePoint 2010 with Windows PowerShell 2.0** Shannon W. Bray 2011-06-01 Authoritative coverage of the latest version of Microsoft's fastest-selling product Imagine being able to perform a task that requires dozens of clicks with just a single command, or automate a series of identical tasks rather than repeat them. This book shows you how to do just that?and more?by using Windows PowerShell cmdlets with SharePoint 2010. Focused on everyday and frequently performed tasks, this invaluable guide provides PowerShell solutions for maintaining a SharePoint environment and explains how more than 500 cmdlets that come with SharePoint 2010 allows you to automate just about anything. Step-by-step instructions walk you through the necessary concepts and real-world examples enhance your learning process. Highlights the ways in which PowerShell cmdlets take the tedium out of executing frequently performed commands in SharePoint 2010 by automating everyday tasks Explains how to install and configure a SharePoint environment Details the steps for deploying and managing Web applications, site collections, authentication, and solution packages Shows you how to manage operational settings and back up and restore data Automating SharePoint 2010 with Windows PowerShell 2.0 helps you save time and effort performing common tasks so that you can be more productive.

**PowerShell Deep Dives** Oisin Grehan 2013-07-25 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 Gavans, 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 authoritydatabase 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 advancedHTML reports with PowerShell Using and "abusing" dynamic parameters PowerShell type formatting Scalable scripting for large data sets: pipelineand 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 functionsand 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 PowerShellSQL Server Management Objects WSUS and PowerShell Provisioning IIS web servers and sites with PowerShell Active Directory Group Management application

**Windows Server 2012 Automation with Powershell Cookbook** Ed Goad 2013-03-26 Cookbook with recipes based on real life examples.This book is written to assist the daily tasks for systems administrators, engineers, and architects working with Windows Server 2012.

**Microsoft System Center Introduction to Microsoft Automation Solutions** Mitch Tulloch 2014-12-02 This book provides you with an introduction to the Microsoft automation solutions: Azure Automation and Service Management Automation. Throughout the chapters, the text explores these tools and how they can be used to meet the automation needs of your Microsoft Azure cloud solutions or your enterprise datacenter environments. We provide considerations on the features of each solution, and how they can be

architected to fit your needs. Next, the text explores the interfaces you will use to interact with the solutions, including the web-based portals, Windows PowerShell command-line interaction, and programmatic access via the web services. The text then covers how you implement and manage automation using runbooks, assets, and Integration Modules, along with how you can use a source control system to manage runbook content. Finally, some examples of automation scenarios are discussed, providing you with samples that can be used to speed development in your own solution.

**PowerShell: Automating Administrative Tasks** Michael Shepard 2017-02-24 Learn PowerShell from the inside out, right from basic scripting all the way to becoming a master at automating, managing, and maintaining your Windows environment About This Book Use proven best practices to optimize code and automate redundant tasks Get to grips with PowerShell's advanced functions and effectively administer your system Create a variety of PowerShell scripts to automate your environment Who This Book Is For If you are a system administrator who wants to become an expert in automating and managing your Windows environment, then this course is for you. Some basic understanding of PowerShell would be helpful. What You Will Learn Discover PowerShell commands and cmdlets and understand PowerShell formatting Solve common problems using basic file input/output functions Use .NET classes in Windows PowerShell and C# and manage Exchange Online Use PowerShell in C# to manage Exchange Online and work with .NET classes in PowerShell Automate LYNC clients, consuming client-side object models to administrate SharePoint Online Optimize code through the use of functions, switches, and looping structures Manage files, folders, and registries through the use of PowerShell Discover best practices to manage Microsoft systems In Detail Are you tired of managing Windows administrative tasks manually and are looking to automate the entire process? If yes, then this is the right course for you. This learning path starts your PowerShell journey and will help you automate the administration of the Windows operating system and applications that run on Windows. It will get you up and running with PowerShell, taking you from the basics of installation to writing scripts and performing web server automation. You will explore the PowerShell environment and discover how to use cmdlets, functions, and scripts to automate Windows systems. The next installment of the course focuses on gaining concrete knowledge of Windows PowerShell scripting to perform professional-level scripting. The techniques here are packed with PowerShell scripts and sample C# code to automate tasks. You will use .NET classes in PowerShell and C# to manage Exchange Online. In the final section, you will delve into real-world examples to learn how to simplify the management of your Windows environment. You will get to grips with PowerShell's advanced functions and how to most effectively administer your system. This Learning Path combines some of the best that Packt has to offer in one complete, curated package. It includes content from the following Packt products: Getting Started with PowerShell by Michael Shepard Windows PowerShell for .Net Developers Second Edition by Chendrayan Venkatesan and Sherif Talaat Mastering Windows PowerShell Scripting by Brenton J.W. Blawat Style and approach This is a step-by-step course to help you effectively administer and maintain your development environment with PowerShell.

**Windows PowerShell 2 For Dummies** Steve Seguis 2009-08-10 Prepare for the future of Microsoft automation with this no-nonsense guide Windows PowerShell 2 is the scripting language that enables automation within the Windows operating system. Packed with powerful new features, this latest version is complex, and Windows PowerShell 2 For Dummies is the perfect guide to help system administrators get up to speed. Written by a Microsoft MVP with direct access to the program managers and developers, this book covers every new feature of Windows PowerShell 2 in a friendly, easy-to-follow format. Windows PowerShell 2 is the updated scripting language that enables system administrators to automate Windows operating systems System administrators with limited scripting experience will find this book helps them learn the fundamentals of Windows PowerShell 2 quickly and easily Translates the jargon and complex syntax of Windows PowerShell 2 Covers script debugging improvements, the ability to invoke commands remotely, and the new user interface Uses real-world applications to clarify the theory, fundamentals, and techniques of the scripting language Written by a Microsoft MVP with direct access to the developers of Windows PowerShell 2 Windows PowerShell 2 For Dummies makes this tool easily accessible to administrators of every experience level.

**PowerShell** Sam Griffin 2020-11-12 Are you looking for an easy way to simplify and automate administration of all your Microsoft products? You can't go wrong with Windows PowerShell, one of the most powerful scripting languages ever devised!PowerShell makes it easy to retrieve data about your system settings, manage your services, change objects and much more; learning it now will help you to reduce how much time you have to spend, or waste as the case may be, on admin functions and all without the need to purchase expensive tools or services from elsewhere.This book aims to serve as a comprehensive beginner's guide to PowerShell, and details all you need to know to begin using it effectively and efficiently.

**PowerShell for Sysadmins** Adam Bertram 2020-02-04 Learn to use PowerShell, Microsoft's scripting language, to automate real-world tasks that IT professionals and system administrators deal with every day. Save Time. Automate. PowerShell® is both a scripting language and an administrative shell that lets you control and automate nearly every aspect of IT. In PowerShell for Sysadmins, five-time Microsoft® MVP "Adam the Automator" Bertram shows you how to use PowerShell to manage and automate your desktop and server environments so that you can head out for an early lunch. You'll learn how to: Combine commands, control flow, handle errors, write scripts, run scripts remotely, and test scripts with the PowerShell testing framework, Pester Parse structured data like XML and JSON, work with common domains (like Active Directory, Azure, and Amazon Web Services), and create a real-world server inventory script Design and build a PowerShell module to demonstrate PowerShell isn't just about ad-hoc scripts Use PowerShell to create a hands-off, completely automated Windows deployment Build an entire Active Directory forest from nothing but a Hyper-V host and a few ISO files Create endless Web and SQL servers with just a few lines of code! Real-world examples throughout help bridge the gap between theory and actual system, and the author's anecdotes keep things lively. Stop with the expensive software and fancy consultants. Learn how to manage your own environment with PowerShell for Sysadmins and make everyone happy. Covers Windows PowerShell v5.1

**Microsoft Hyper-V PowerShell Automation** Vinith Menon 2015-01-29 This book is great for administrators who are new to automating Hyper-V administration tasks using PowerShell. If you are familiar with the PowerShell command line and have some experience with the Windows Server, this book is perfect for you.