

# Automating Administration With Windows Powershell 2

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*Automating Administration With Windows Powershell 2*

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## HULL GWENDOLYN

*Microsoft System Center Designing Orchestrator Runbooks* John Wiley & Sons

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.

55318A Advanced Automated Administration with Windows PowerShell John Wiley & Sons

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.

Mastering Active Directory John Wiley & Sons

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. *Automating Active Directory Administration with Windows PowerShell 2.0* Packt Publishing Ltd

Scripting gurus Jones and Hicks teach readers PowerShell from the ground up. They cover its underlying technologies, flexible scripting language, and enough of the .NET Framework to be effective in PowerShell scripting. (Computer Books)

**Windows PowerShell Cookbook** Simon and Schuster

Want to perform programming tasks better, faster, simpler, and make them repeatable? Take a deep dive into Windows PowerShell and discover what this distributed automation platform can do. Whether you're a .NET developer or IT pro, this concise guide will show you how PowerShell's scripting language can help you be more productive on everyday tasks. Quickly learn how to create PowerShell scripts and embed them into your existing applications, write "little languages" to solve specific problems, and take charge of your code. This book includes example scripts that you can easily pull apart, tweak, and then use in your own PowerShell and .NET solutions. Slice and dice text, XML, CSV, and JSON with ease Embed PowerShell to provide scripting capabilities for your C# apps Create GUI applications five to ten times faster with less code Leverage PowerShell's capabilities to work with the Internet Interact with DLLs and create objects, automatically display properties, and call methods in live interactive sessions Build domain-specific languages (DSLs) and vocabularies to express solutions more clearly Work with Microsoft Office via the Component Object Model (COM)

Discover PowerShell v3 features included with Windows 8 and Windows Server 2012

**Microsoft Azure Essentials Azure Automation** "O'Reilly Media, Inc."

Part of a series of specialized guides on System Center - this book delivers a focused drilldown into designing runbooks for Orchestrator workflow management solutions. Series editor Mitch Tulloch and a team of System Center experts provide concise technical guidance as they step you through key design concepts, criteria, and tasks.

PowerShell for Sysadmins Microsoft Press

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 *Windows PowerShell Step by Step* "O'Reilly Media, Inc."

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.

*PowerShell for Office 365* John Wiley & Sons

The core concepts and technologies you need to administer a Windows Server OS Administering a Windows operating system (OS) can be a difficult topic to grasp, particularly if you are new to the field of IT. This full-color resource serves as an approachable introduction to understanding how to install a server, the various roles of a server, and how server performance and maintenance impacts a network. With a special focus placed on the new Microsoft Technology Associate (MTA) certificate, the straightforward, easy-to-understand tone is ideal for anyone new to computer administration looking to enter the IT field. Each chapter offers a clear and concise look at the core Windows administration concepts you need to know to gain an understanding of these difficult topics. Offers a clear, no-nonsense approach to administering a Windows operating system and presents it in such a way that IT beginners will confidently comprehend the subject matter Targets the MTA 98-365 exam by covering Windows Server installation, server roles, storage, and active directory infrastructure Provides you with a solid foundation of various networking topics so that you can gain a strong understanding of Windows Server administration concepts Includes review questions and suggested labs to further enhance your learning process With this book by your side, you will be armed with the core concepts and technologies needed to administer a Windows Server operating system.

*Windows PowerShell 3.0 First Steps* No Starch Press

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

AUTOMATING MICROSOFT WINDOWS SERVER 2008 R2

ADMINISTRATION WITH WINDOWS POWERSHELL 2.0 John Wiley & Sons

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)

Automating Microsoft Azure with Powershell Packt Publishing Ltd

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.

*PowerShell and WMI* Createspace Independent Publishing Platform

A guide to using Windows PowerShell to script Windows administrative tasks and control Windows from the command line.

*Mastering Windows PowerShell Scripting* Simon and Schuster Streamline and modernize the way you manage Active Directory Use Windows PowerShell to simplify and accelerate Active Directory domain controller management, whether you're running Active Directory entirely in the cloud, on-premises, or in a hybrid environment. In this concise reference, Microsoft MVP Charlie Russel presents the commands, tested scripts, and best-practice advice you need to deploy and run Active Directory in a modern environment and to migrate smoothly to cloud or hybrid deployments wherever they offer more value. Supercharge your productivity as an Active Directory administrator Get proven scripts that leverage the power of Windows Server 2012 and Windows Management Framework 4.0 and 5.0 Deploy forests and Active Directory Domain Services (AD DS) Manage DNS and DHCP Create and manage users and groups Deploy additional domain controllers, read-only domain controllers (RODCs), and domains Implement and manage fine-grained password policies Perform fast, reliable backups and restores Quickly extend on-premises Active Directory deployments to the cloud Efficiently manage roles and sites

**Mastering Windows PowerShell Scripting** Packt Publishing Ltd

TAGLINE Power Up Your Automation and Administration with

PowerShell KEY FEATURES ● Master PowerShell for efficient IT administration and configuration. ● Explore practical scenarios with clear explanations and essential scripts. ● Enhance automation skills to stay ahead in IT innovation. ● Optimize Microsoft product management with advanced PowerShell techniques. DESCRIPTION Unlock the power of PowerShell with this comprehensive guide, designed as your ultimate companion, the book is structured into three parts, each focusing on different aspects of PowerShell. You'll start with the basics and then explore PowerShell Core's unique features. Next, you'll delve into building blocks, pipelines, and data control with arrays, loops, and hash tables. As you progress, you'll master PowerShell security and develop advanced functions to automate complex tasks. Further chapters will guide you through optimizing Windows administration, managing tasks and jobs, and exploring remoting features for efficient multi-system management. Finally, you'll leverage PowerShell for cloud operations and integrate it seamlessly with the Microsoft ecosystem. This book provides a progressive journey in PowerShell automation, equipping you with essential skills for various tasks, from Windows administration to cloud operations. WHAT WILL YOU LEARN ● Master PowerShell and PowerShell Core fundamentals, syntax, and cmdlets. ● Develop robust scripts using variables, arrays, conditionals, loops, and hash tables. ● Implement security best practices to safeguard data and systems. ● Create advanced functions to streamline script development. ● Administer Windows environments efficiently with PowerShell. ● Automate tasks and optimize system performance with PowerShell. ● Utilize PowerShell remoting for remote administration and cross-platform execution. ● Manage cloud resources using PowerShell for provisioning and configuration. ● Integrate PowerShell with Microsoft ecosystem components like Active Directory and Azure. ● Create custom modules for enhanced efficiency, including support for other cloud vendors. ● Enhance PowerShell scripting and automation skills to automate tasks, troubleshoot issues, and optimize workflows across diverse computing environments. ● Master cloud automation with PowerShell, efficiently automating tasks in Azure and AWS to manage cloud resources effectively.

WHO IS THIS BOOK FOR? This book is tailored for IT professionals, system administrators, database administrators, and automation engineers seeking to enhance efficiency through PowerShell automation across diverse platforms. Prerequisites include basic understanding of IT systems and familiarity with command-line interfaces. Whether managing server configurations, administering databases, or navigating complex projects, this resource equips you with the skills to streamline tasks effectively using PowerShell. TABLE OF CONTENTS Part 1 Fundamentals of PowerShell 1. Introduction to PowerShell 2. Introduction to PowerShell Core 3. PowerShell Building Blocks and Pipelines Part 2 PowerShell Scripting and Automation 4. Data Control and Arrays Using Conditional Statements, Loops, and Hashtables 5. PowerShell Security 6. PowerShell Advanced Functions 7. Windows Administration Using PowerShell Part 3 PowerShell Advanced Topics 8. PowerShell Tasks and Jobs 9. PowerShell Remoting 10. Managing Cloud Operations Using PowerShell 11. PowerShell and Microsoft Ecosystem Index

**Practical Automation with PowerShell** Packt Publishing Ltd 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

### **Windows Server 2022 & PowerShell All-in-One For Dummies** Packt Publishing Ltd

"VMware vSphere PowerCLI is a must-have tool for any administrator managing VMware vSphere in a Windows environment. Having to repeat vSphere administrative tasks can be time consuming and error-prone, but PowerCLI--created specifically for Windows environments--allows VMware administrators to automate tasks. Written to the latest PowerCLI, this handy guide shows you step by step how to use the PowerCLI cmdlets for daily administration procedures and frequently performed tasks for VMware vSphere X. The reference is organized by vSphere tasks, providing a practical approach to accessing the information you need while you are on the job. Supported by real world examples and no-nonsense instruction, coverage includes installation, configuration, and management of a vSphere environment, management of the virtual machine life-cycle, security, and monitoring and reporting."

### **Mastering Windows PowerShell Scripting** SAPIEN Press

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 appendixes 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

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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

### **PowerShell: Automating Administrative Tasks** Microsoft Press

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.

### **PowerShell** Packt Publishing Ltd

55318A is the Community Courseware equivalent of retired MOC course 10962 - Advanced Automated Administration with Windows PowerShell. It will help individuals who use PowerShell scripting for domain, network, and application administration. The primary focus of the exercises and labs is Windows PowerShell but much of the material may also be used with PowerShell Core. The examples and demonstrations cover a wide range of services that PowerShell can be used with. Students will be able to practice using PowerShell with Active Directory, IIS, .NET resources, SMTP, SQL Server, and various file formats used for input / output operations such as JSON, XML and CSV. The virtual machines used for the class are built with PowerShell and the scripts are made available to students so they can build their own lab environment in Microsoft Azure or Hyper-V using the skills they learn in class.