

Powershell And Wmi

System Center Configuration Manager Current Branch Unleashed (includes Content Update Program)Professional Windows PowerShellMastering Windows PowerShell ScriptingMicrosoft Windows PowerShell 3.0 First LookWindows PowerShell 5 in 24 Hours, Sams Teach YourselfPro Windows PowerShellMicrosoft Windows Scripting with WMIWindows PowerShell 3.0 Step by StepVBScript, WMI, and ADSI UnleashedDeveloping WMI SolutionsGetting Started with PowerShellMicrosoft Powershell 5: Learning the BasicsWindows PowerShell Pocket ReferenceWindows PowerShell CookbookInstant Windows PowerShellWindows PowerShell UnleashedWindows PowerShell 3.0 First StepsWindows PowerShellWindowsEssential PowerShellPowerShell and WMI Mastering Windows PowerShell ScriptingWindows PowerShell Step by StepWindows PowerShell in ActionMastering Windows PowerShell ScriptingPowerShell Deep DivesSQL Server 2014 with PowerShell v5 CookbookWindows PowerShell V1.0Windows PowerShell 2.0 Best PracticesLearn Windows PowerShell 3 in a Month of LunchesWindows PowerShell Best PracticesWindows Server 2019 Automation with PowerShell CookbookEnterprise PowerShell Scripting BootcampPowerShell for SQL Server EssentialsLearn PowerShell Core 6.0Windows PowerShell CookbookLearn PowerShell Toolmaking in a Month of LunchesPowerShell for SysadminsWindows PowerShell 2.0 BiblePowerShell 7 for IT Professionals

System Center Configuration Manager Current Branch Unleashed (includes Content Update Program)

This new edition contains more than 60 percent revised and rewritten material, making it one of the most comprehensive and authoritative Windows PowerShell book currently available. (Computer Books)

Professional Windows PowerShell

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

Mastering Windows PowerShell Scripting

Automate Windows server tasks with the powerful features of the PowerShell

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Language Key Features Leverage PowerShell to automate complex Windows server tasks Master new features such as DevOps, and containers, and speed up their performance using PowerShell Improve PowerShell's usability, and control and manage Windows-based environments by working through exciting recipes Book Description Windows Server 2019 represents the latest version of Microsoft's flagship server operating system. It also comes with PowerShell Version 5.1 and has a number of additional features that IT pros find useful. The book helps the reader learn how to use PowerShell and manage core roles, features, and services of Windows Server 2019. You will begin with creating a PowerShell Administrative Environment that has updated versions of PowerShell and the Windows Management Framework, updated versions of the .NET Framework, and third-party modules. Next, you will learn to use PowerShell to set up and configure Windows Server 2019 networking and also managing objects in the AD environment. You will also learn to set up a host to utilize containers and how to deploy containers. You will also be implementing different mechanisms for achieving desired state configuration along with getting well versed with Azure infrastructure and how to setup Virtual Machines, web sites, and shared files on Azure. Finally, you will be using some powerful tools you can use to diagnose and resolve issues with Windows Server 2019. By the end of the book, you will learn a lot of trips and tricks to automate your windows environment with PowerShell What you will learn Perform key admin tasks on Windows Server 2019 Employing best practices for writing PowerShell scripts and configuring Windows Server 2019 Use the .NET

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Framework to achieve administrative scripting Set up VMs, websites, and shared files on Azure Report system performance using built-in cmdlets and WMI to obtain single measurements Know the tools you can use to diagnose and resolve issues with Windows Server Who this book is for If you are a systems administrator, engineer, or an architect working with Windows Server 2016 interested in upgrading to Windows Server 2019 and automating tasks with PowerShell, then this book is for you. A basic knowledge of PowerShell is expected.

Microsoft Windows PowerShell 3.0 First Look

With PowerShell, you can automate tasks with scripts without having to learn the complicated ins and outs of programming. After you familiarise yourself with PowerShell's intuitive syntax, you'll apply your knowledge by designing and developing scripts for lots of daily situations IT personnel find themselves in every day. You'll then end with learning how to build a large project to automate server deployments from scratch written completely in PowerShell. Unlock the possibilities with PowerShell!

Windows PowerShell 5 in 24 Hours, Sams Teach Yourself

In just 24 lessons of one hour or less, Sams Teach Yourself Windows PowerShell in

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

Desired State Configuration Administer key tasks on SQL Server, SharePoint, and other Windows servers Master PowerShell skills needed to earn many Microsoft certifications

Pro Windows PowerShell

Presents a guide on how to use Windows PowerShell to script Windows administrative tasks and control Windows from the command line.

Microsoft Windows Scripting with WMI

Windows PowerShell 3.0 Step by Step

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.

VBScript, WMI, and ADSI Unleashed

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)

Developing WMI Solutions

Go beyond simple queries and get the inside track on how to write system administration scripts with Windows Management Instrumentation (WMI)—straight from a Microsoft scripting expert. With labs and lessons you complete at your own pace, this definitive tutorial helps you build your scripting expertise and provides the professional guidance you need to automate Windows administrative tasks. Teach yourself how to write and run scripts to: Configure WMI—without editing the

registry Audit and inventory software on local or remote desktops and servers
Manage system components, including keyboards, motherboards, disk drives, and
printers Monitor and report on real-time changes in system performance and
respond to critical events Configure network components Test security access
rights and make changes to one or multiple systems And learn how to: Test,
diagnose, and resolve errors with WMI Back-up and restore the registry PLUS—Get
more than 900 script samples that you can use to help simplify the management of
your system resources CD-ROM features: More than 900 sample scripts to adapt
for your own work Time-saving scripting tools—including Script-o-Matic 2.0 and
WMIcheck Fully searchable eBook A Note Regarding the CD or DVD The print
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Getting Started with PowerShell

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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

Microsoft Powershell 5: Learning the Basics

Over 150 real-world recipes to simplify database management, automate repetitive tasks, and enhance your productivity About This Book This book helps you build a strong foundation to get you comfortable using PowerShell with SQL Server, empowering you to create more complex scripts for your day-to-day job The book provides numerous guidelines, tips, and explanations on how and when to use PowerShell cmdlets, WMI, SMO, .NET classes, or other components It offers easy-to-follow, practical recipes to help you get the most out of SQL Server and PowerShell Who This Book Is For If you are a SQL Server database professional

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(DBA, developer, or BI developer) who wants to use PowerShell to automate, integrate, and simplify database tasks, this book is for you. Prior knowledge of scripting would be helpful, but it is not necessary. What You Will Learn Explore database objects and execute queries on multiple servers Manage and monitor the running of SQL Server services and accounts Back up and restore databases Create an inventory of database properties and server configuration settings Maintain permissions and security for users Work with CLR assemblies, XML, and BLOB objects in SQL Manage and deploy SSIS packages and SSRS reports In Detail PowerShell can be leveraged when automating and streamlining SQL Server tasks. PowerShell comes with a rich set of cmdlets, and integrates tightly with the .NET framework. Its scripting capabilities are robust and flexible, allowing you to simplify automation and integration across different Microsoft applications and components. The book starts with an introduction to the new features in SQL Server 2014 and PowerShell v5 and the installation of SQL Server. You will learn about basic SQL Server administration tasks and then get to know about some security-related topics such as the authentication mode and assigning permissions. Moving on, you will explore different methods to back up and restore your databases and perform advanced administration tasks such as working with Policies, Filetables, and SQL audits. The next part of the book covers more advanced HADR tasks such as log shipping and data mirroring, and then shows you how to develop your server to work with BLOB, XML, and JSON. Following on from that, you will learn about SQL Server's BI stack, which includes SSRS reports, the

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SSIS package, and the SSAS cmdlet and database. Snippets not specific to SQL Server will help you perform tasks quickly on SQL servers. Towards the end of the book, you will find some useful information, which includes a PowerShell tutorial for novice users, some commonly-used PowerShell and SQL Server syntax, and a few online resources. Finally, you will create your own SQL Server Sandbox VMs. All these concepts will help you to efficiently manage your administration tasks. Style and approach SQL Server 2014 with PowerShell v5 Cookbook is an example-focused book that provides step-by-step instructions on how to accomplish specific SQL Server tasks using PowerShell. Each recipe is followed by an analysis of the steps or design decisions taken and additional information about the task at hand. Working scripts are provided for all examples so that you can dive in right away. You can read this book sequentially by chapter or you can pick and choose which topics you need right away.

Windows PowerShell Pocket Reference

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 ===== 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

Windows PowerShell Cookbook

Provides information on the administration, scripting functions, development, and platforms of Windows PowerShell.

Instant Windows PowerShell

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.

Windows PowerShell Unleashed

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

Windows PowerShell 3.0 First Steps

The quick start guide for an advanced enterprise PowerShell framework About This Book Introduces industry-proven techniques that improve script efficiency and reliability Example-rich guide based on real-world scenarios Facilitates building a script that can fully scan a Windows server and identify components Who This Book Is For This book is for IT professionals and Windows administrators who would like to gain intensive, hands-on knowledge and skills on PowerShell without spending hours and hours in learning. If you have been struggling to find the time to gain proficiency and confidence with PowerShell and everyday scripting tasks What You Will Learn Create an advanced PowerShell scripting template that provides repeatable code to jumpstart all of your scripting projects Learn how to securely encrypt and store usernames, passwords, and other sensitive data in PowerShell scripts and answer files Understand how to optimize the performance of scripts to help process large datasets quickly and avoid time-consuming mistakes Develop a script to scan for non-standard Windows Server configurations and identify service accounts used on Windows Servers Gather a large list of data from a Windows server without locally or remotely logging in interactively In Detail Enterprise PowerShell Scripting Bootcamp explains how to create your own repeatable PowerShell scripting framework. This framework contains script logging methodologies, answer file interactions, and string encryption and decryption strategies. This book focuses on evaluating individual components to identify the

system's function, role, and unique characteristics. To do this, you will leverage built-in CMDlets and Windows Management Instrumentation (WMI) to explore Windows services, Windows processes, Windows features, scheduled tasks, and disk statistics. You will also create custom functions to perform a deep search for specific strings in files and evaluate installed software through executable properties. We will then discuss different scripting techniques to improve the efficiency of scripts. By leveraging several small changes to your code, you can increase the execution performance by over 130%. By the end of this book, you will be able to tie all of the concepts together in a PowerShell-based Windows server scanning script. This discovery script will be able to scan a Windows server to identify a multitude of components. Style and approach This book is all about fast and intensive learning. This means, we don't waste time in helping readers get started. The new content is about leveraging highly-effective examples to build new things, help solving problems in newer and unseen ways, and providing an enterprise-ready platform to create PowerShell Scripts.

Windows PowerShell

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.

Windows

System Center Configuration Manager Current Branch provides a total systems management solution for a people-centric world. It can deploy applications to individuals using virtually any device or platform, centralizing and automating management across on-premise, service provider, and Microsoft Azure environments. In System Center Configuration Manager Current Branch Unleashed, a team of world-renowned System Center experts shows you how to make the most of this powerful toolset. The authors begin by introducing modern systems management and offering practical strategies for coherently managing today's IT infrastructures. Drawing on their immense consulting experience, they offer expert guidance for ConfigMgr planning, architecture, and implementation. You'll walk

through efficiently performing a wide spectrum of ConfigMgr operations, from managing clients, updates, and compliance to reporting. Finally, you'll find current best practices for administering ConfigMgr, from security to backups. Detailed information on how to: Successfully manage distributed, people-centric, cloud-focused IT environments Optimize ConfigMgr architecture, design, and deployment plans to reflect your environment Smoothly install ConfigMgr Current Branch and migrate from Configuration Manager 2012 Save time and improve efficiency by automating system management Use the console to centralize control over infrastructure, software, users, and devices Discover and manage clients running Windows, macOS, Linux, and UNIX Define, monitor, enforce, remediate, and report on all aspects of configuration compliance Deliver the right software to the right people with ConfigMgr applications and deployment types Reliably manage patches and updates, including Office 365 client updates Integrate Intune to manage on-premise and mobile devices through a single console Secure access to corporate resources from mobile devices Manage Microsoft's enterprise antimalware platform with System Center Endpoint Protection Using this guide's proven techniques and comprehensive reference information, you can maximize the value of ConfigMgr in your environment—no matter how complex it is or how quickly it's changing.

Essential PowerShell

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 and WMI

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.

Mastering Windows PowerShell Scripting

If you're a Windows administrator, scripting expertise can liberate you from boring, repetitive work—so you can take on the sophisticated, high-value projects you really want. Top scripting guru Don Jones has written the definitive administrator's

guide to getting results with Microsoft's key scripting technologies: VBScript, WMI, and ADSI. Jones draws on his unsurpassed experience training Windows administrators in conferences, classes, and from his enormously popular site, ScriptingAnswers.com. You'll learn how to use VBScript, WMI, and ADSI to gain administrative control over nearly every aspect of every recent Windows server or client, including Windows Server 2003, Vista, XP, 2000, and NT. As you gain experience, Jones introduces more advanced techniques, ranging from modular scripting and script encryption to integrating VBScript with HTML code. Jones concludes with a full section of ready-to-run, real-world examples—from logon/logoff scripts to automated domain and network administration, from querying WMI to creating Active Directory groups. Every script is explained line-by-line, with challenging techniques described in even greater detail.

Windows PowerShell Step by Step

Here is your best companion to the capabilities and power that PowerShell offers. Inside this book, you'll discover the object-oriented features of the shell and how they help in extracting and manipulating data. You'll then learn how to use those features to solve real-world problems: manipulating files, working with text, monitoring systems, and performing operations over the network. In addition, you'll find freely available tools and extensions that help you get results with Windows PowerShell fast.

Windows PowerShell in Action

The Windows PowerShell is configuration management framework and job mechanization from Microsoft that consists of associated scripting language and a command line shell that is built on .NET Framework. Full access is gained to WMI and COM by using Powershell and this enables administrators to perform administrative tasks on both remote and local Windows systems as well as CIM enabling management and WS-Management of remote network devices and Linux systems.

Mastering Windows PowerShell Scripting

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.

PowerShell Deep Dives

Use PowerShell to Streamline and Automate Your Most Time-Consuming Windows Administration Tasks With Windows PowerShell, Microsoft brings innovative console-based system administration and scripting to Windows clients and servers. PowerShell combines the best features of traditional UNIX shells with the immense power of the .NET Framework, offering a consistent and easy-to-use replacement for both the Windows command line and the Windows Script Host. In *Essential PowerShell*, noted expert Holger Schwichtenberg gives Windows sysadmins all the knowledge and sample scripts they need to successfully administer production systems with PowerShell. Schwichtenberg begins by introducing the innovative PowerShell architecture, along with crucial PowerShell concepts such as pipelining and navigation. Next, he introduces the PowerShell Script Language, shows the

secure execution of command sequences as scripts, and demonstrates how to use PowerShell to access essential operating system interfaces such as COM, WMI, ADSI, and ADO.NET. After you've mastered the fundamentals, Schwichtenberg presents an extensive collection of PowerShell solutions for virtually every area of day-to-day administration. For each topic, he presents dozens of self-contained examples, all downloadable from a companion Web site. He covers both Microsoft's standard PowerShell commandlets and the free commandlets available as PowerShell Community Extensions. He also presents a full chapter of tips, tricks, and troubleshooting solutions. Coverage includes Understanding PowerShell's components and features Setting up your PowerShell scripting environment Creating and using commandlets Using object-oriented pipelining for filtering, sorting, grouping, comparisons, calculations, and more Mastering PowerShell's uniform navigation model and using it with all types of data Programming command sequences with the PowerShell Script Language Making the most of the PowerShell console and third-party tools Managing processes, event logs, and registry entries Controlling networking, printing, and software installation Manipulating Active Directory and other enterprise services with PowerShell Using PowerShell to enforce stronger system and network security Storing data in files, documents, and databases Preface xv Part I: Getting Started with PowerShell 1: First Steps with Windows PowerShell 3 2: Commandlets 25 3: Pipelining 43 4: Advanced Pipelining 59 5: The PowerShell Navigation Model 81 6: The PowerShell Script Language 89 7: PowerShell Scripts 115 8: Using Class Libraries 129 9:

PowerShell Tools 151 10: Tips, Tricks and Troubleshooting 171 Part II: Windows PowerShell in Action 11: File Systems 205 12: Documents 235 13: Registry and Software 253 14: Processes and Services 267 15: Computers and Hardware 281 16: Networking 295 17: Directory Services 313 18: User and Group Management in the Active Directory 335 19: Searching in the Active Directory 349 20: Additional Libraries for Active Directory Administration 361 21: Databases 373 22: Advanced Database Operations 389 23: Security Settings 401 24: Advanced Security Administration 413 PartIII: Appendices Appendix A: PowerShell Commandlet Reference 429 Appendix B: PowerShell 2.0 Preview 445 Appendix C: Bibliography 449 Index 453

SQL Server 2014 with PowerShell v5 Cookbook

Grasp advanced PowerShell Core 6.0 functionalities to automate your environment Key Features Keep up with changes introduced in PowerShell Core 6.0 Easily maintain appropriate compatibility with older versions Automate complex tasks, manipulate data, and secure your environment with PowerShell Core 6.0 Book Description PowerShell scripts offer a handy way to automate various chores, however working effectively with these scripts can be a difficult task. This comprehensive guide starts with the fundamentals before moving on to advanced-level topics to help you become a PowerShell Core 6.0 expert. The first module, PowerShell Core 6.0 Fundamentals, begins with the new features of PowerShell

Core 6.0, installing it on Linux, and working with parameters, objects and .NET classes from within PowerShell Core 6.0. As you make your way through the chapters, you'll see how to efficiently manage large amounts of data and interact with other services using PowerShell Core 6.0. You'll be able to make the most of PowerShell Core 6.0's powerful automation feature, where you will have different methods available to parse data and manipulate regular expressions and Windows Management Instrumentation (WMI). After having explored automation, you will enter the extending PowerShell Core 6.0 module, covering asynchronous processing and desired state configuration. In the last module, you will learn to extend PowerShell Core 6.0 using advanced scripts and filters, and also debug issues along with working on error handling techniques. By the end of this book, you will be an expert in scripting with PowerShell Core 6.0. What you will learn

- Optimize code through the use of functions, switches, and looping structures
- Work with objects and operators to test and manipulate data
- Parse and manipulate different data types
- Create scripts and functions using PowerShell
- Use jobs, events, and popular public modules which assist with implementing multithreading
- Write .NET classes with ease within the 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 If you are a system administrator who wants to become an expert in controlling and automating your Windows environment, then Mastering Windows PowerShell Scripting is for you. It is also ideal for those new to the PowerShell language.

Windows PowerShell V1.0

Covers the installation and components of WMI, its interactions and subsystems, query language facilities, class schemas, method design, and developing management and .NET management applications.

Windows PowerShell 2.0 Best Practices

This is today's definitive hands-on guide to automating Windows setup, deployment, and management with Windows PowerShell. Microsoft senior consultant Ed Wilson ("The Scripting Guy") fully illuminates every key PowerShell technique -- especially the major improvements and new cmdlets introduced with PowerShell 5.0. Wilson's positive and humorous approach has made him one of the world's most popular PowerShell instructors. His practical examples and insights will help you maximize productivity and quality in all your IT operations, and integrate automated workflows throughout any traditional or cloud environment. Windows PowerShell Step by Step, Third Edition offers more labs and structured learning exercises than any other PowerShell 5.0 tutorial. Wilson guides you step-by-step through building every script he demonstrates. He reinforces key concepts with step-by-step exercises, including "One Step Further" exercises that deepen your understanding, so you can solve your unique problems. All examples and

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starter files are downloadable at the TechNet Script Center Script Repository. Coverage includes: Basic PowerShell concepts and cmdlets Key providers: Alias, Certificate, Environment, File System, Function, Registry, Variable, and WSMAN Remoting, jobs, scripts, functions, and modules Windows PowerShell ISE and snippets Creating, organizing, and running PowerShell profiles WMI: objects, namespaces, providers, classes, and queries Remoting WMI and calling WMI methods via CIM Automating Active Directory and AD Domain Services Debugging scripts and handling errors Defining complex workflows Using Desired State Configuration (DSC) to quickly enforce or restore configuration settings Finding and using the PowerShell Gallery's powerful new resources Each chapter concludes with a convenient quick reference, and Wilson presents detailed appendices on coding conventions and regular expressions. If you're upgrading from any earlier version of PowerShell, a new "Start Here" section identifies the most valuable PowerShell features you haven't already learned, so you can focus your efforts where they'll make you most productive.

Learn Windows PowerShell 3 in a Month of Lunches

"Portable help for PowerShell scripters"--Cover.

Windows PowerShell Best Practices

Presents a guide on how to use Windows PowerShell to build administrative tools.

Windows Server 2019 Automation with PowerShell Cookbook

A quick, succinct guide to the new and exciting features in PowerShell 3.0

Enterprise PowerShell Scripting Bootcamp

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 for SQL Server Essentials

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.

Learn PowerShell Core 6.0

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

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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 Cookbook

A guide to using Windows PowerShell to script Windows administrative tasks and control Windows from the command line includes more than four hundred task-oriented recipes and more than one hundred scripts.

Learn PowerShell Toolmaking in a Month of Lunches

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

PowerShell for Sysadmins

Take advantage of everything Microsoft's new PowerShell 7 has to offer PowerShell 7 for IT Pros is your guide to using PowerShell 7, the open source, cross-platform version of Windows PowerShell. Windows IT professionals can begin setting up automation in PowerShell 7, which features many improvements over the early version of PowerShell Core and Windows PowerShell. PowerShell 7 users can enjoy the high level of compatibility with the Windows PowerShell modules they rely on today. This book shows IT professionals—especially Windows administrators and developers—how to use PowerShell7 to engage in their most important tasks, such as managing networking, using AD/DNS/DHCP, leveraging Azure, and more. To make it easy to learn everything PowerShell 7 has to offer, this book includes robust examples, each containing sample code so readers can follow along. Scripts are based on PowerShell 7 running on Windows 10 19H1 or later and Windows Server 2019.

- Learn to navigate the PowerShell 7 administrative environment
- Use PowerShell 7 to automate networking, Active Directory, Windows storage, shared data, and more
- Run Windows Update, IIS, Hyper-V, and WMI and CIM cmdlets within PowerShell 7
- Understand how to handle reporting in the new PowerShell 7 environment

PowerShell 7 for IT Pros provides exclusive coverage of using PowerShell with both cloud-based systems and virtualized environments (Hyper V and Azure). Written by PowerShell veteran Thomas Lee, this is the only book you'll need to get started with PowerShell 7.

Windows PowerShell 2.0 Bible

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)

PowerShell 7 for IT Professionals

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 Download all examples and source code presented in this book from informit.com/title/9780672329883.

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