

Windows Powershell Automating Administration With Ne 10961

Are you a system administrator, consultant, or power user who wants to expand their expertise in automating and controlling the windows environment? And are you looking for a comprehensive guide that will help you become a pro at your own convenience and pace even if you've never set foot into a software development class? If you answered YES to these questions, this book is for you so keep on reading... You Are About To Master How To Unlock The Advanced Functionalities Of Windows Powershell Scripting To Help You Automate Different Tasks In The Windows Environment! Windows PowerShell is a very powerful tool that most people do not yet know of as it is still fairly new. It offers a handy way to automate the windows environment. However, working with this function can be difficult if you do not have the necessary knowledge of going about it. This book bridges that gap as it provides you with all the knowledge you need to help you automate common administrative jobs and tasks. By virtue that you are here, it is clear that you are eager to get started and you are probably wondering... What is Windows PowerShell and what exactly does it do? How do I install PowerShell on my computer? Can Windows PowerShell be installed on other operating systems apart from Windows? What are the main PowerShell commands that I should know of? How do I get started with scripting using PowerShell? If you have these and other related questions about getting started with Windows PowerShell, keep reading, as this book has everything you need to get you started, even if you do not consider yourself tech-savvy. More precisely, you will find: What PowerShell is and how to install it on different operating systems Different PowerShell commands and what they do The core concepts of scripting using PowerShell How to use conditional statements and PowerShell loops How to combine scripting and commands And much more... Even if you are a complete beginner, this comprehensive guide is perfect for you as it will help you learn PowerShell fast. It is structured in a way that allows readers to understand the concepts using real-world situations as opposed to a textbook format. You'll be scripting like a pro in no time. Don't wait... Scroll up and click Buy Now With 1-Click or Buy Now to get started!

Are You Looking To Navigate The Filesystem, Manage Files and Folders, Or Retrieve A Web Page? Ready To Learn Efficient PowerShell Scripts? Yes, you can use Windows PowerShell Help system as the quickest way to discover the commands you need for the particular task you want to accomplish. Windows PowerShell is Microsoft's standard automation tool and something that every Windows administrator will eventually have to understand. The book, "PowerShell: The PowerShell for Beginners Guide to Learn PowerShell Scripting, PowerShell 5 and Windows PowerShell", is filled with examples and fun little exercises that will show the reader the results of their work immediately and encourages the reader to continue learning. It provides the background necessary to apply PowerShell automation and 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. What you will learn inside the book: The Basics of PowerShell Learning the PowerShell Commands PowerShell Script Creation PowerShell Providers Working with Files and Folders Making PowerShell Work for You PowerShell Terminology This book

will guide you through the very basics and up to the point where you will have enough tools to learn more advanced guidebooks or continue scripting and automating Windows using PowerShell.No Experience With Windows Powershell Or Other Scripting Technologies NecessaryThis book is designed for anyone who wants to learn Windows PowerShell. By the end of the book, you will be able to: Optimize code through the use of functions, switches, and looping structures Utilize variables, hashes, and arrays to store data Work with Objects and Operators to test and manipulate data Create and implement regular expressions in PowerShell scripts Leverage session-based remote management Manage files, folders, and registries through the use of PowerShell Discover the best practices to manage Microsoft systems 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.What are you waiting for? Buy "PowerShell: The PowerShell for Beginners Guide to Learn PowerShell Scripting, PowerShell 5 and Windows PowerShell" right now and prepare for the future of Microsoft automation!

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.

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.

Windows Server Automation with PowerShell Cookbook
Getting Started with Powershell

Learning PowerShell 6

Automate and manage your environment using PowerShell Core 6.0, 3rd Edition
Powershell

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. 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

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.

Summary Discover how scripting is different from command-line PowerShell, as you explore concrete hands-on examples in this handy guide. The book includes and expands on many of the techniques presented in Learn PowerShell Toolmaking in a Month of Lunches. Purchase of the print book includes a free eBook in PDF, Kindle, and ePub formats from Manning Publications. About the Technology Automate it! With Microsoft's PowerShell language, you can write scripts to control nearly every aspect of Windows. Just master a few straightforward scripting skills, and you'll be able to eliminate repetitive manual tasks, create custom reusable tools, and build effective pipelines and workflows. Once you start scripting in PowerShell, you'll be amazed at how many opportunities you'll find to save time and effort. About the Book Learn PowerShell Scripting in a Month of Lunches teaches you how to expand your command-line PowerShell skills into effective scripts and tools. In 27 bite-size lessons, you'll discover instantly useful techniques for writing efficient code, finding and squashing bugs, organizing your scripts into libraries, and much more. Advanced scripters will even learn to access the .NET Framework, store data long term, and create nice user interfaces. What's Inside Designing functions and scripts Effective pipeline usage Dealing with errors and bugs Professional-grade scripting practices About the Reader Written for devs and IT pros comfortable with PowerShell and Windows. About the Authors Don Jones is a PowerShell MVP, speaker, and trainer who has written dozens of books on information technology topics. Jeffery Hicks is a PowerShell MVP and an independent consultant, trainer, and author. Don and Jeff coauthored Manning's Learn Windows PowerShell in a Month of Lunches, Learn PowerShell Toolmaking in a Month of Lunches, and PowerShell in Depth. Table of Contents PART 1 - INTRODUCTION TO SCRIPTING Before you begin Setting up your scripting environment WPSD: what would PowerShell do? Review: parameter binding and the PowerShell pipeline Scripting language crash course The many forms of scripting (and which to use) Scripts and security PART 2 - BUILDING A POWERSHELL SCRIPT Always design first Avoiding bugs: start with a command Building a basic function and script module Going advanced with your

function Objects: the best kind of output Using all the pipelines Simple help: making a comment Dealing with errors Filling out a manifest PART 3 - GROWN-UP SCRIPTING Changing your brain when it comes to scripting Professional-grade scripting An introduction to source control with git Pestering your script Signing your script Publishing your script PART 4 - ADVANCED TECHNIQUES Squashing bugs Making script output prettier Wrapping up the .NET Framework Storing data-not in Excel! Never the end Microsoft Hyper-V PowerShell Automation One-stop guide to automating administrative tasks PowerShell in Practice

PowerShell: Automating Administration

Automating SharePoint 2010 with Windows PowerShell 2.0

Automate Windows server tasks with the powerful features of the PowerShell 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 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.

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.

MarketDesc: 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.

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.

Getting Started with PowerShell

Learn PowerShell Core 6.0

Workflow Automation Made Easy

Windows PowerShell 2 For Dummies

PowerShell: Automating Administrative Tasks

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.

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.

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 is the de facto standard for scripting in Microsoft Windows environments. By knowing how to use PowerShell, system administrators can quickly automate complex, repetitive, and otherwise time-consuming tasks. This

video course will help you to master automation and finish the course by building a variety of PowerShell scripts to automate your environment and reduce the amount of code required. Through real-world examples, you will learn how to simplify managing your Windows environment and then effectively administer Windows-based systems and environments by using advanced functions. You will gain a strong foundation to advance your existing PowerShell knowledge through real-world scenarios. By the end of this course, you will be able to quickly produce scripts that can be run in your existing environments, and perform and automate tasks by building scripts that involve systems and enterprise management. You will finish the course by getting a thorough understanding of how to use advanced features to work with Active Directory and the file system, and will deploy tried and tested scripts for a variety of management tasks."--Resource description page.
Learn PowerShell Scripting in a Month of Lunches

Windows PowerShell Step by Step
Mastering PowerShell Scripting
Windows PowerShell Unleashed

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

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

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

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 and classes in Windows PowerShell and C# and manage Exchange Online Use PowerShell to manage Exchange Online and work with .NET classes in PowerShell Automate LYNC client-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 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 is 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 contains 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 Shephard Windows PowerShell for .Net Developers Second Edition by Chendrayan Venkatesan and 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.

Leverage the expertise of Windows PowerShell and automate Microsoft products and technologies, on-premises and in-cloud About This Book *Meet complex administration requirements with efficiency using Windows PowerShell *Build advanced task automation via PowerShell scripting for Microsoft technologies such as Nano Server and System Center Office 365, and so on *A comprehensive PowerShell guide with a set of scenarios, real-world examples, and scripts to easily get you started with Windows PowerShell and its capabilities Who This Book Is For This handbook is for system administrators who want to master Windows PowerShell as a scripting language, automate repeated daily tasks, and perform complex administration in a timely manner with less effort. In order to get the maximum benefit from this book, you need to have some basic scripting knowledge and a good administration experience. What You Will Learn *Discover and understand the concepts and basics of Windows PowerShell *Explore Windows PowerShell's extensibility and flexibility *Discover the new features and enhancements of Windows PowerShell *Get to grips with the PowerShell syntax and grammar such as pipeline, looping, and working with object models *PowerShell's capabilities with the .NET framework, XML, WMI, and COM+ *Configure and

deploy Windows Server Core features, services, and components*Manage and configure Microsoft virtualization platform, Hyper-V*Manage and configure Cloud technologies su Office 365 and Microsoft AzureIn DetailTechnology's growing rhythm is running faster before, and the business needs are getting more complex every day. Thus, it is the tim new talent to meet this challenge. With PowerShell in your toolbox, you can easily per many tasks in less time, with less effort, and with lower costs.This book comes with a world scenarios and detailed scripts that will help you getting started with PowerShe learn what is new in PowerShell 5.0 such as Desired State Configuration (DSC) and Cl automation with Office 365, writing the syntax, and building your scripts and developi extensions and modules. You will also gain deep insights into automating various tasks integrating PowerShell with different technologies, products, and tools, such as Windo Server, Active Directory, Nano Server, Hyper-V, System Center, Office 365, Microsoft A and more.

Mastering Windows Powershell 5 Administration

A Comprehensive Beginners Guide To Windows Powershell And Scripting To Automate
And Environment

Automate and Manage Your Environment Using PowerShell

Automating Active Directory Administration with Windows PowerShell 2.0

Automate and control administrative tasks using DevOps principles

Grasp advanced PowerShell Core 6.0 functionalities to automate your environment Key FeaturesKeep up with changes introduced in PowerShell Core 6.0Easily maintain appropriate compatibility with older versionsAutomate complex tasks, manipulate data, and secure your environment with PowerShell Core 6.0Book 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 learnOptimize 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.

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.

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.

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

Microsoft SQL Server 2008 Administration with Windows PowerShell
Automating Microsoft Windows Server 2008 R2 with Windows PowerShell 2.0

Windows PowerShell 2.0 Bible

Windows PowerShell 3.0 First Steps

Powerful ways to automate and manage Windows administrative tasks, 4th Edition

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.

Automating Active Directory 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)**

Windows PowerShell is a scripting language that simplifies Windows system administration. **PowerShell in Practice** is a hands-on reference for administrators wanting to learn and use PowerShell. Following the "in Practice" style, individual related techniques are clustered into

chapters. Each technique is presented in the form: problem, solution, discussion, and includes annotated code listings. Written to answer the question "How can PowerShell make my job as an administrator easier?" this book concentrates on practical tasks and automation. Starting with an a brief tutorial and review, the majority of the book focuses on two major PowerShell usage areas: People - user accounts, mailboxes, desktop configuration; and Servers - Active Directory, Exchange, IIS, and more. Purchase of the print book comes with an offer of a free PDF, ePub, and Kindle eBook from Manning. Also available is all code from the book.

AUTOMATING MICROSOFT WINDOWS SERVER 2008 R2 ADMINISTRATION WITH WINDOWS POWERSHELL 2.0

The Complete Guide to Scripting Microsoft's New Command Shell

Windows PowerShell Cookbook

Windows Server 2019 Automation with PowerShell Cookbook

Windows PowerShell 2.0 Best Practices

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.

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.

Your hands-on guide to Windows PowerShell scripting fundamentals Expand your expertise--and teach yourself the fundamentals of Windows PowerShell scripting, including features available in Windows PowerShell 5. If you are an IT professional, power user, or consultant, you'll get the guidance, exercises, and code you need to master core techniques for automating Windows setup, deployment, and management. Discover how to: Run cmdlets and command-line utilities Administer Windows-based servers and desktops with built-in cmdlets Use providers to access external information Write and run scripts from the Windows ISE Create functions that are easy to maintain Build standardized environments with profiles Automate Windows systems with WMI, CIM cmdlets, and remoting Automate Active Directory Domain Services (AD DS) Debug scripts and handle errors Run commands that survive interruptions Use Desired State Configuration (DSC) to manage software services and their environments Get powerful new modules from PowerShell Gallery About You This book is for: IT professionals and power users who want to get productive with Windows PowerShell, including new features in Windows PowerShell 5 Windows system administrators who want to be more efficient and productive Anyone pursuing Windows PowerShell certifications No experience with Windows PowerShell or other scripting technologies necessary

This cookbook will help you gain command of PowerShell 7.1 to manage the core roles, features, and services within Windows Server 2022 and 2019. Thomas Lee provides an expansive view of the functionality made possible in PowerShell's latest major release. PowerShell 5. 0 Advanced Administration Handbook

The Powershell for Beginners Guide to Learn Powershell Scripting, Powershell 5 and Windows Powershell

Windows Powershell and Scripting Made Easy For Sysadmins

Mastering Windows PowerShell Scripting

Windows Server 2016 Automation with PowerShell Cookbook

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

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accessible to administrators of every experience level. 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. Downloading the example code for this book You can download the example co... 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

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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

"This video 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 will act as an introduction to the central topics of PowerShell, from 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'll perform data manipulation and solve common problems using basic file input/output functions. The potential topics could be Commands, Scripts, Providers, Files and folders, Objects, Variables, Classes and Enumerations, Expressions, DSC and so on. By the end of this course, you'll be able to leverage your skills to effectively manage and administrate the system using PowerShell 6."--Resource description page.

Powerful ways to automate and manage Windows administrative tasks, 3rd Edition

AUTOMATING MICROSOFT SHAREPOINT 2010 ADMINISTRATION WITH WINDOWS POWERSHELL 2.0

Windows Server 2012 Automation with Powershell Cookbook

PowerShell for Sysadmins

Automate and manage your environment using PowerShell 7.1

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:

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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. Learn intermediate PowerShell scripting techniques to automate Windows network administration.

Microsoft System Center Introduction to Microsoft Automation Solutions

Learn Windows PowerShell 3 in a Month of Lunches