

Windows PowerShell — □ ×

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10961b Automating Administration With Windows Powershell

Ed Wilson



10961b Automating Administration With Windows Powershell:

Ultimate PowerShell Automation for System Administration Prashanth Jayaram, Rajendra Gupta, 2024-06-18 TAGLINE

Power Up Your Automation and Administration with PowerShell KEY FEATURES Master PowerShell for efficient IT administration and configuration Explore practical scenarios with clear explanations and essential scripts Enhance automation skills to stay ahead in IT innovation Optimize Microsoft product management with advanced PowerShell techniques DESCRIPTION Unlock the power of PowerShell with this comprehensive guide designed as your ultimate companion the book is structured into three parts each focusing on different aspects of PowerShell You ll start with the basics and then explore PowerShell Core s unique features Next you ll delve into building blocks pipelines and data control with arrays loops and hash tables As you progress you ll master PowerShell security and develop advanced functions to automate complex tasks Further chapters will guide you through optimizing Windows administration managing tasks and jobs and exploring remoting features for efficient multi system management Finally you ll leverage PowerShell for cloud operations and integrate it seamlessly with the Microsoft ecosystem This book provides a progressive journey in PowerShell automation equipping you with essential skills for various tasks from Windows administration to cloud operations WHAT WILL YOU LEARN Master PowerShell and PowerShell Core fundamentals syntax and cmdlets Develop robust scripts using variables arrays conditionals loops and hash tables Implement security best practices to safeguard data and systems Create advanced functions to streamline script development Administer Windows environments efficiently with PowerShell Automate tasks and optimize system performance with PowerShell Utilize PowerShell remoting for remote administration and cross platform execution Manage cloud resources using PowerShell for provisioning and configuration Integrate PowerShell with Microsoft ecosystem components like Active Directory and Azure Create custom modules for enhanced efficiency including support for other cloud vendors Enhance PowerShell scripting and automation skills to automate tasks troubleshoot issues and optimize workflows across diverse computing environments Master cloud automation with PowerShell efficiently automating tasks in Azure and AWS to manage cloud resources effectively WHO IS THIS BOOK FOR This book is tailored for IT professionals system administrators database administrators and automation engineers seeking to enhance efficiency through PowerShell automation across diverse platforms Prerequisites include basic understanding of IT systems and familiarity with command line interfaces Whether managing server configurations administering databases or navigating complex projects this resource equips you with the skills to streamline tasks effectively using PowerShell TABLE OF CONTENTS Part 1 Fundamentals of PowerShell 1 Introduction to PowerShell 2 Introduction to PowerShell Core 3 PowerShell Building Blocks and Pipelines Part 2 PowerShell Scripting and Automation 4 Data Control and Arrays Using Conditional Statements Loops and Hashtables 5 PowerShell Security 6 PowerShell Advanced Functions 7 Windows Administration Using PowerShell Part 3 PowerShell Advanced Topics 8 PowerShell Tasks and Jobs 9 PowerShell Remoting 10

Managing Cloud Operations Using PowerShell 11 PowerShell and Microsoft Ecosystem Index 55318A *Advanced Automated Administration with Windows PowerShell* Neil Tucker, Jr., 2023-05-17 55318A is the Community Courseware equivalent of retired MOC course 10962 *Advanced Automated Administration with Windows PowerShell* It will help individuals who use PowerShell scripting for domain network and application administration The primary focus of the exercises and labs is Windows PowerShell but much of the material may also be used with PowerShell Core The examples and demonstrations cover a wide range of services that PowerShell can be used with Students will be able to practice using PowerShell with Active Directory IIS NET resources SMTP SQL Server and various file formats used for input output operations such as JSON XML and CSV The virtual machines used for the class are built with PowerShell and the scripts are made available to students so they can build their own lab environment in Microsoft Azure or Hyper V using the skills they learn in class Automating Active Directory Administration with Windows PowerShell 2.0 Ken St. Cyr, Laura E.

Hunter, 2011-06-01 Focused content on automating the user authentication and authorization tool for Windows environments Automation helps make administration of computing environments more manageable It alleviates the repetition of repeating frequent tasks and automates just about any task for Active Directory Windows PowerShell 2.0 Focused on everyday and frequently performed tasks this indispensable guide provides you with the PowerShell solutions for these tasks Solutions are presented in a step by step format so that you can fully grasp how the new Active Directory module for PowerShell provides command line scripting for administrative configuration and diagnostic tasks Walks you through the processes and tools required to automate everyday tasks Offers PowerShell solutions for maintaining a Windows Server 2008 R2 environment Includes real world examples explanations of concepts and step by step solutions This unique book allows you to work more efficiently and effectively and keep up with the ever increasing demands from businesses **PowerShell: Automating Administrative Tasks** Michael Shepard, Chendrayan Venkatesan, Sherif Talaat, Brenton J.W. Blawat, 2017-02-24 Learn PowerShell from the inside out right from basic scripting all the way to becoming a master at automating managing and maintaining your Windows environment About This Book Use proven best practices to optimize code and automate redundant tasks Get to grips with PowerShell's advanced functions and effectively administer your system Create a variety of PowerShell scripts to automate your environment Who This Book Is For If you are a system administrator who wants to become an expert in automating and managing your Windows environment then this course is for you Some basic understanding of PowerShell would be helpful What You Will Learn Discover PowerShell commands and cmdlets and understand PowerShell formatting Solve common problems using basic file input output functions Use NET classes in Windows PowerShell and C# and manage Exchange Online Use PowerShell in C# to manage Exchange Online and work with NET classes in PowerShell Automate LYNC clients consuming client side object models to administrate SharePoint Online Optimize code through the use of functions switches and looping structures Manage files folders and registries through the

use of PowerShell Discover best practices to manage Microsoft systems In Detail Are you tired of managing Windows administrative tasks manually and are looking to automate the entire process If yes then this is the right course for you This learning path starts your PowerShell journey and will help you automate the administration of the Windows operating system and applications that run on Windows It will get you up and running with PowerShell taking you from the basics of installation to writing scripts and performing web server automation You will explore the PowerShell environment and discover how to use cmdlets functions and scripts to automate Windows systems The next installment of the course focuses on gaining concrete knowledge of Windows PowerShell scripting to perform professional level scripting The techniques here are packed with PowerShell scripts and sample C code to automate tasks You will use NET classes in PowerShell and C to manage Exchange Online In the final section you will delve into real world examples to learn how to simplify the management of your Windows environment You will get to grips with PowerShell s advanced functions and how to most effectively administer your system This Learning Path combines some of the best that Packt has to offer in one complete curated package It includes content from the following Packt products Getting Started with PowerShell by Michael Shepard Windows PowerShell for Net Developers Second Edition by Chendrayan Venkatesan and Sherif Talaat Mastering Windows PowerShell Scripting by Brenton J W Blawat Style and approach This is a step by step course to help you effectively administer and maintain your development environment with PowerShell

PowerShell: Automating Administration, 2018 Learn intermediate PowerShell scripting techniques to automate Windows network administration *Mastering Windows PowerShell Scripting* Chris Dent, Brenton J.W. Blawat, 2017-10-27 Master the art of automating and managing your environment using PowerShell About This Book Find quick solutions to automate your environment with ease Work with large amounts of data effortlessly with PowerShell data types and secure them Packed with real world examples to automate and simplify the management of your Windows environment Who This Book Is For If you are a system administrator who wants to become an expert in controlling and automating your Windows environment then this book is for you It is also for those new to the PowerShell language What You Will Learn Optimize code through the use of functions switches and looping structures Install PowerShell on your Linux system Utilize variables hashes and arrays to store data Work with Objects and Operators to test and manipulate data Parse and manipulate different data types Write NET classes with ease within the PowerShell Create and implement regular expressions in PowerShell scripts Deploy applications and code with PowerShell s Package management modules Leverage session based remote management Manage files folders and registries through the use of PowerShell In Detail PowerShell scripts offer a handy way to automate various chores Working with these scripts effectively can be a difficult task This comprehensive guide starts from scratch and covers advanced level topics to make you a PowerShell expert The first module PowerShell Fundamentals begins with new features installing PowerShell on Linux working with parameters and objects and also how you can work with NET classes from within PowerShell In the next

module you'll see how to efficiently manage large amounts of data and interact with other services using PowerShell. You'll be able to make the most of PowerShell's powerful automation feature where you will have different methods to parse and manipulate data, regular expressions and WMI. After automation, you will enter the Extending PowerShell module which covers topics such as asynchronous processing and creating modules. The final step is to secure your PowerShell so you will land in the last module, Securing and Debugging PowerShell, which covers PowerShell execution policies, error handling techniques, and testing. By the end of the book, you will be an expert in using the PowerShell language, style, and approach. This practical guide covers all the advanced PowerShell functionalities that an administrator needs to learn to automate their environments.

AUTOMATING MICROSOFT WINDOWS SERVER 2008 R2 ADMINISTRATION WITH WINDOWS POWERSHELL 2.0 Matthew Hester, Sarah Dutkiewicz, 2011-07-01
Market_Desc: Primary Windows administrators, those new to PowerShell, and transitioning from Powershell 1.0 to 2.0. Secondary: Developers, Special Features.
GROWING POWERSHELL USERS PowerShell is the management tool all Windows administrators will have to eventually use as it is a software requirement for installing Windows Server 2008 R2 as well as other Microsoft core infrastructure products, and there are administrative tasks that can only be done with PowerShell.
AUTOMATION IS AN IT TREND Gartner predicts by 2013 35% of system administration will be automated, and in 2018 there will be a huge and fast shift to automation with 55% of processes being automated.
STRONG AUTHOR PLATFORM Matthew Hester is an IT Pro Evangelist for Microsoft, is heavily involved with the IT Pro community, and has been for over 15 years, and presents to audiences all around the world.
UNIQUE CONTENT Unlike the competition, this book provides screen casts for exercises that appear at the end of each chapter. The screen casts present the exercise solutions, talking and walking the reader step by step through the exercises. Solutions are available inside the book as well.
1 SERVER 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.

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

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

tedious and time consuming system admin tasks

Key Features

- Automate complex tasks
- manipulate data and secure your environment
- Work with dual code for PowerShell 7 and Windows PowerShell to maintain compatibility with older versions

See PowerShell in action from learning the fundamentals to creating classes scripts and modules

Book Description

PowerShell scripts offer a convenient way to automate various tasks but working with them can be daunting. Mastering PowerShell Scripting takes away the fear and helps you navigate through PowerShell's capabilities. This extensively revised edition includes new chapters on debugging and troubleshooting and creating GUIs online.

chapter Learn the new features of PowerShell 7.1 by working with parameters, objects and .NET classes from within PowerShell 7.1. This comprehensive guide starts with the basics before moving on to advanced topics including asynchronous processing, desired state configuration using more complex scripts and filters, debugging issues and error handling techniques. Explore how to efficiently manage substantial amounts of data and interact with other services using PowerShell 7.1. This book will help you to make the most of PowerShell's automation features using different methods to parse data, manipulate regular expressions and work with Windows Management Instrumentation (WMI). What you will learn:

- Optimize code with functions, switches and looping structures
- Test and debug your scripts as well as raising and catching errors
- Work with objects and operators to test and manipulate data
- Parse and manipulate different data types
- Use jobs, runspace 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.

PowerShell: Automating Administration Scott M Burrell, 2018 [Learn PowerShell Core 6.0](#)

David das Neves, Jan-Hendrik Peters, 2018-07-26

Enhance your skills in expert module development, deployment, security, DevOps and cloud.

Key Features

- A step by step guide to get you started with PowerShell Core 6.0
- Harness the capabilities of PowerShell Core 6.0 to perform simple to complex administration tasks
- Learn core administrative concepts such as scripting, pipelines and DSC

Book Description

Beginning with an overview of the different versions of PowerShell, Learn PowerShell Core 6.0 introduces you to VSCode and then dives into helping you understand the basic techniques in PowerShell scripting. You will cover advanced coding techniques, learn how to write reusable code as well as store and load data with PowerShell. This book will help you understand PowerShell security and Just Enough Administration, enabling you to create your own PowerShell repository. The last set of chapters will guide you in setting up, configuring and working with Release Pipelines in VSCode and VSTS and help you understand PowerShell DSC. In addition to this, you will learn how to use PowerShell with Windows, Azure, Microsoft Online Services, SCCM and SQL Server. The final chapter will provide you with some use cases and pro tips. By the end of this book, you will be able to create professional reusable code using security insight and knowledge of

working with PowerShell Core 6.0 and its most important capabilities. What you will learn: Get to grips with PowerShell Core 6.0. Explore basic and advanced PowerShell scripting techniques. Get to grips with Windows PowerShell Security. Work with centralization and DevOps with PowerShell. Implement PowerShell in your organization through real life examples. Learn to create GUIs and use DSC in production. Who this book is for: If you are a Windows administrator or a DevOps user who wants to leverage PowerShell to automate simple to complex tasks then this book is for you. Whether you know nothing about PowerShell or just enough to get by, this guide will give you what you need to go to take your scripting to the next level. You'll also find this book useful if you're a PowerShell expert looking to expand your knowledge in areas such as PowerShell Security and DevOps.

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

Mastering Windows PowerShell Scripting Chris Dent, 2019-02-28. 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 *Automating Microsoft Windows Server 2008 R2 with Windows PowerShell 2.0* Matthew Hester, Sarah Dutkiewicz, 2011-05-04 Learn to automate the top server operating system Windows Server 2008 R2 Windows PowerShell 2.0 allows you to automate nearly any task for managing Windows Server going from dozens of clicks to a single command and repeated tasks to automated tasks Using screen shots and helpful exercises this book walks you through the many benefits of automating Windows Server with PowerShell 2.0 such as allowing for scalable flexible and rapid deployments and changes increasing cost effectiveness providing a timely return on IT investment lowering labor headcount creating secure computing environments and establishing reliable enterprise infrastructures In addition real world examples provide reinforced learning aimed at ensuring that you work as efficiently and effectively as possible by automating both simple and complex administrative tasks with Powershell 2.0 Explains how to automate both simple and complex tasks in Windows Server 2008 R2 with Powershell 2.0 Addresses how Windows Server 2008 R2 comes with more than 550 cmdlets allowing you to automate nearly anything Offers numerous real world examples end of chapter exercises and helpful screen shots to reinforce your learning process The power is in your hands Start working smarter not harder by automating Windows Server 2008 R2 tasks with Powershell 2.0 **Mastering PowerShell Scripting** Chris Dent, 2024-05-24 Master PowerShell to automate real world administrative tasks streamline workflows and enhance security across Windows environments Purchase of the print or Kindle book includes a free PDF eBook Key Features Build practical scripts to automate system tasks manage files users and services and optimize daily operations Leverage PowerShell s advanced features for error handling modular scripting and secure automation Apply best practices to create reusable maintainable and production ready automation workflows Book Description Mastering PowerShell Scripting Fifth Edition is your comprehensive guide to harnessing PowerShell s full potential This edition introduces new chapters on debugging troubleshooting and creating GUIs while covering the latest enhancements in PowerShell 7.3 including parameters objects and NET classes The book takes you from foundational concepts to advanced techniques covering asynchronous processing desired state configuration and managing large datasets You ll explore PowerShell s automation features error handling strategies and integration with external services Additionally this guide provides practical insights into working with regular expressions Windows Management Instrumentation and complex scripting methods By the end of this book you ll have the skills to efficiently automate tasks troubleshoot scripts and leverage PowerShell s advanced capabilities for real world scenarios What you will learn Create scripts that run across systems for automation Extend PowerShell by integrating it with other languages Use PowerShell s command line interface for efficient operations Develop reusable scripts and functions to streamline tasks Apply PowerShell for administration automation and data processing Integrate with NET COM and WMI for advanced functionality Work with XML JSON and CSV for structured data handling Build custom modules and cmdlets to enhance scripting 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

Windows PowerShell Best Practices Ed Wilson,2014-01-15 Expert recommendations pragmatically applied Automate system administration using Windows PowerShell best practices and optimize your operational efficiency With this practical guide Windows PowerShell expert and instructor Ed Wilson delivers field tested tips real world examples and candid advice culled from administrators across a range of business and technical scenarios If you re an IT professional with Windows PowerShell experience this book is ideal Discover how to Use Windows PowerShell to automate Active Directory tasks Explore available WMI classes and methods with CIM cmdlets Identify and track scripting opportunities to avoid duplication Use functions to encapsulate business logic and reuse code Design your script s best input method and output destination Test scripts by checking their syntax and performance Choose the most suitable method for running remote commands Manage software services with Desired State Configuration

PowerShell Scripting for Beginners Joseph J,2025-10-27 Master Windows Automation and Transform Your IT Career Tired of repetitive tasks eating away at your workday Imagine automating hours of manual work into seconds with just a few lines of code PowerShell Scripting for Beginners is your complete guide to Windows automation written specifically for those with zero programming experience Whether you manage one computer or one thousand servers this practical guide teaches you how to eliminate repetitive tasks reduce errors and scale your IT operations What You ll Learn Start from the absolute basics with step by step instructions that assume no prior coding knowledge You ll master cmdlets variables loops and conditional logic through real world examples you can apply immediately Automate everyday Windows tasks including file management user account creation service monitoring event log analysis and remote server administration Build professional scripts that handle errors gracefully and log their actions Create your own reusable PowerShell functions and modules Learn to schedule automated tasks manage Active Directory at scale work with APIs and JSON data and query the Windows Registry safely Inside This Book 20 comprehensive chapters organized into five progressive parts taking you from foundation concepts to professional grade automation solutions Each chapter includes practical exercises safety guidelines and real world scenarios Learn modern PowerShell 7 with Visual Studio Code and Windows Terminal Master PowerShell Remoting to manage multiple servers simultaneously Build complete automation workflows for user onboarding system health monitoring and resource management Three detailed appendices provide essential cmdlet references ready to use automation scripts and comprehensive troubleshooting guides Perfect For IT professionals help desk analysts system administrators aspiring DevOps engineers and anyone who wants to work smarter not harder This book transforms repetitive manual tasks into elegant automated solutions Stop clicking Start scripting Your automation journey begins here

Mastering Windows PowerShell Scripting Chris Dent,2019 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 will see how to efficiently manage large amounts of data and interact with other services using PowerShell Core 6.0 You will 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 code **Instant Windows PowerShell** Vinith Menon, 2013-10-25 Get to grips with a new technology understand what it is and what it can do for you and then get to work with the most important features and tasks A practical hands on tutorial approach that explores the concepts of PowerShell in a friendly manner taking an ad hoc 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 is assumed that you will have some experience in PowerShell and Windows Server as well being familiar with the PowerShell command line **Practical Automation with PowerShell** Matthew Dowst, 2023-05-09 Take PowerShell beyond simple scripts and build time saving automations for your team your users and the world In Practical Automation with PowerShell you will learn how to Build PowerShell functions to automate common and complex tasks Create smart automations that are adaptable to new challenges Structure your code for sharing and reusability Store and secure your automations Execute automations with Azure Automation Jenkins Task Scheduler and Cron Share your automations with your team and non technical colleagues Store and retrieve data credentials and variables Use

source control solutions to maintain and test code changes Provide front end UI solutions for PowerShell automations

Practical Automation in PowerShell reveals how you can use PowerShell to build automation solutions for a huge number of common admin and DevOps tasks Author Matthew Dowst uses his decades of experience to lay out a real blueprint for setting up an enterprise scripting environment with PowerShell The book goes beyond the basics to show you how to handle the unforeseen complexities that can keep automations from becoming reusable and resilient From the console to the cloud you ll learn how to manage your code avoid common pitfalls and create sharable automations that are adaptable to different use cases

About the Technology The PowerShell scripting language is a force multiplier giving you programmatic control over your whole data center With this powerful tool you can create reusable automations that radically improve consistency and productivity on your Ops team This book shows you how to design write organize and deploy scripts to automate operations on systems of all sizes from local servers to enterprise clusters in the cloud

About the Book Practical Automation with PowerShell Effective scripting from the console to the cloud shows you how to build PowerShell automations for local and cloud systems In it you ll find tips for identifying automatable tasks techniques for structuring and managing scripts and lots of well explained example code You ll even learn how to adapt existing scripts to new use cases and empower non technical users through easy to understand SharePoint frontends

What s Inside Structure PowerShell code for sharing and reusability Store and secure your automations Execute automation with Azure Automation Jenkins Task Scheduler and Cron Store and retrieve data credentials and variables Use source control solutions to maintain and test code changes

About the Reader For sysadmin and IT professionals who manage backend systems

About the Author Matthew Dowst has over 15 years of experience in IT management and consulting

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