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Windows PowerShell                                                    —  ☐  ✕

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Major         : 5
Minor         : 0
Build         : 10586
Revision      : 51
MajorRevision : 0
MinorRevision : 51


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Windows Powershell Version 5 0 Advanced Topics Workshop

Daniel F McAuley

Windows Powershell Version 5 0 Advanced Topics Workshop:

PowerShell 5. 0 Advanced Administration Handbook Sherif Talaat,2016-11-30 Leverage the expertise of Windows PowerShell and automate Microsoft products and technologies on premises and in cloudAbout This Book Meet complex administration requirements with efficiency using Windows PowerShell Build advanced task automation skills 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 capabilitiesWho This Book Is ForThis handbook is for system administrators who want to master Windows PowerShell as a scripting language automate repeated daily tasks and perform complex administration in 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 know the PowerShell syntax and grammar such as pipeline looping and working with objects Extend PowerShell s capabilities with the NET framework XML WMI and COM Configure and deploy Windows Server Core features services and components Manage and configure the Microsoft virtualization platform Hyper V Manage and configure Cloud technologies such as Office 365 and Microsoft AzureIn DetailTechnology s growing rhythm is running faster than before and the business needs are getting more complex every day Thus it is the time to gain a new talent to meet this challenge With PowerShell in your toolbox you can easily perform many tasks in less time with less effort and with lower costs This book comes with a set of real world scenarios and detailed scripts that will help you getting started with PowerShell You will learn what is new in PowerShell 5 0 such as Desired State Configuration DSC and Classes automation with Office 365 writing the syntax and building your scripts and developing extensions and modules You will also gain deep insights into automating various tasks and integrating PowerShell with different technologies products and tools such as Windows Server Active Directory Nano Server Hyper V System Center Office 365 Microsoft Azure and more *Ultimate PowerShell Automation for System Administration: Streamline Automation and Administration Tasks with Advanced PowerShell Techniques and Expert Insights* Prashanth Jayaram,Rajendra Gupta,2024-06-18 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 Book DescriptionUnlock 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 you will 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 Table of ContentsPart 1 Fundamentals of PowerShell 1 Introduction to PowerShell 2 Introduction to PowerShell Core 3 PowerShell Building Blocks and Pipelines Part 2 PowerShell Scripting and Automation4 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   **PowerShell 7 Workshop** Nick Parlow,2024-02-29 Leverage PowerShell 7 to write code on Windows Linux and Raspberry Pi to accomplish real world tasks with this practical guide Key Features Master the art of coding with Microsoft s free open source cross platform language Understand essential programming concepts such as loops and objects through practical examples Practice using PowerShell 7 with websites APIs and physical computing devices like Raspberry Pi Purchase of the print or Kindle book includes a free PDF eBook Book DescriptionDiscover the capabilities of PowerShell 7 for your everyday tasks with this carefully paced tutorial that will help you master this versatile programming language The first set of chapters will show you where to find and how to install the latest version of PowerShell providing insights into the distinctive features that set PowerShell apart from other languages You ll then learn essential programming concepts such as variables and control flow progressing to their applications As you advance you ll work with files and APIs writing scripts functions and modules You ll also gain proficiency in securing your PowerShell environment before venturing into different operating systems Enriched with detailed practical examples tailored for Windows Linux macOS and Raspberry Pi each chapter weaves real world scenarios to ignite your imagination and cement the principles you learn You ll be able to reinforce your understanding through self assessment questions and delve deeper into the principles using comprehensive reading lists By the end of this book you ll have the confidence to use PowerShell for physical computing and writing scripts for Windows administration What you will learn Grasp the distinctive object oriented

nature of PowerShell 7 Explore the practical applications of standard programming concepts such as control flow Find out how to interact with websites and APIs Implement best practices to secure your PowerShell environment and write secure code Get to grips with writing scripts functions and modules Develop the skills to troubleshoot your code Deploy PowerShell on various operating systems Who this book is for This book uses everyday language to explain concepts and has simple examples to explain complex principles It is suitable for early careers IT professionals architects system engineers secondary school pupils and university students who are interested in learning this powerful language **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 DescriptionPowerShell 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 **PowerShell SysAdmin Crash Course, Second Edition** Steeve Lee,2025-01-15 This second edition is a hands on practical book crafted to empower system administrators and PowerShell enthusiasts to efficiently perform everyday system administration tasks and to automate complex processes with confidence This book will take you from the basics of PowerShell scripting to advanced techniques and beyond You will gain hands on

experience with handling variables data types and loops while learning to create reliable scripts that manage files folders drives and the Windows registry You will be introduced to powerful features such as remoting DSC and integration with System Center Configuration Manager to ensure that you can manage and deploy configurations across distributed environments Additionally the book covers the intersection of PowerShell with modern automation frameworks including Ansible Chef Puppet and popular CI CD tools Such integration helps you streamline deployments orchestrate workflows and maintain consistent configurations across Windows and cross platform systems It also covers advanced topics such as extending PowerShell through custom cmdlets modules and classes as well as techniques to interact with external systems via RESTful APIs Python and Bash With simple and straightforward examples the book presents many aspects of system administration while also touching on more complex scenarios giving you the insight you need to tackle challenging environments without overwhelming you Key Learnings You will be up and running with PowerShell scripting for system administration tasks Use effective commands to manage files folders drives and the Windows Registry Use PowerShell remoting to securely manage multiple systems Apply Desired State Configuration for automated idempotent and consistent infrastructure management Integrate SCCM to automate deployments software updates and system configurations Leverage advanced text manipulation with regular expressions for precise data extraction and transformation Develop custom modules cmdlets and functions to effectively extend PowerShell s native capabilities Employ multithreading and parallel processing to enhance script performance Integrate PowerShell with Ansible Chef and Puppet Safeguard PowerShell environments by implementing best practices execution policies and robust auditing techniques Table of Content Beginning with PowerShell PowerShell Basics Cmdlets Aliases and Functions Up and Running with Scripting Basics Working with PowerShell Modules PowerShell Scripting Windows Management with PowerShell Active Directory Management PowerShell Remoting PowerShell DSC PowerShell and SCCM PowerShell Security and Best Practices Advanced PowerShell Techniques PowerShell and Automation Frameworks Extending PowerShell and Interoperability   **Essential PowerShell** Holger Schwichtenberg,2008-06-19 Use PowerShell to Streamline and Automate Your Most Time Consuming Windows Administration Tasks With Windows PowerShell Microsoft brings innovative console based system administration and scripting to Windows clients and servers PowerShell combines the best features of traditional UNIX shells with the immense power of the NET Framework offering a consistent and easy to use replacement for both the Windows command line and the Windows Script Host In Essential PowerShell noted expert Holger Schwichtenberg gives Windows sysadmins all the knowledge and sample scripts they need to successfully administer production systems with PowerShell Schwichtenberg begins by introducing the innovative PowerShell architecture along with crucial PowerShell concepts such as pipelining and navigation Next he introduces the PowerShell Script Language shows the secure execution of command sequences as scripts and demonstrates how to use PowerShell to access essential operating system interfaces such as COM WMI ADSI and ADO

NET After you ve mastered the fundamentals Schwichtenberg presents an extensive collection of PowerShell solutions for virtually every area of day to day administration For each topic he presents dozens of self contained examples all downloadable from a companion Web site He covers both Microsoft s standard PowerShell commandlets and the free commandlets available as PowerShell Community Extensions He also presents a full chapter of tips tricks and troubleshooting solutions Coverage includes Understanding PowerShell s components and features Setting up your PowerShell scripting environment Creating and using commandlets Using object oriented pipelining for filtering sorting grouping comparisons calculations and more Mastering PowerShell s uniform navigation model and using it with all types of data Programming command sequences with the PowerShell Script Language Making the most of the PowerShell console and third party tools Managing processes event logs and registry entries Controlling networking printing and software installation Manipulating Active Directory and other enterprise services with PowerShell Using PowerShell to enforce stronger system and network security Storing data in files documents and databases Preface xv Part I Getting Started with PowerShell 1 First Steps with Windows PowerShell 3 2 Commandlets 25 3 Pipelining 43 4 Advanced Pipelining 59 5 The PowerShell Navigation Model 81 6 The PowerShell Script Language 89 7 PowerShell Scripts 115 8 Using Class Libraries 129 9 PowerShell Tools 151 10 Tips Tricks and Troubleshooting 171 Part II Windows PowerShell in Action 11 File Systems 205 12 Documents 235 13 Registry and Software 253 14 Processes and Services 267 15 Computers and Hardware 281 16 Networking 295 17 Directory Services 313 18 User and Group Management in the Active Directory 335 19 Searching in the Active Directory 349 20 Additional Libraries for Active Directory Administration 361 21 Databases 373 22 Advanced Database Operations 389 23 Security Settings 401 24 Advanced Security Administration 413 PartIII Appendices Appendix A PowerShell Commandlet Reference 429 Appendix B PowerShell 2 0 Preview 445 Appendix C Bibliography 449 Index 453

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 DescriptionPowerShell 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 **PowerShell 3.0 Advanced Administration Handbook** Sherif Talaat,Haijun Fu,2013 Getting PowerShell to serve you even more effectively is simplified with this guide to advanced administration Automating repetitive daily tasks and streamlining processes is demonstrated with real world examples and screenshots Discover and understand the concept of Windows PowerShell 3 0 Learn the advanced topics and techniques for a professional PowerShell scripting Explore the secret of building custom PowerShell snap ins and modules Take advantage of PowerShell integration capabilities with other technologies for better administration skills Step by step guide rich with real world script examples screenshots and best practices In Detail Technology s growing rhythm is running faster than before and business needs are getting more complex every day So it is time to learn something new to help conquer the challenge With PowerShell in your toolbox you can easily perform many tasks with less time effort and cost PowerShell is a helpful scripting technology that enables the automation of system management tasks and the creation of system management tools PowerShell 3 0 Advanced Administration Handbook comes with a set of real world scenarios and detailed scripts that will help you get started with PowerShell learn what PowerShell is how to write the syntax and build your scripts and how to use and integrate PowerShell with different technologies products and tools This handbook starts with the essential topics of PowerShell then introduces the new features in PowerShell 3 0 The book then goes through building PowerShell scripts function and developing extensions like snap ins and modules and continues with detailed examples showing the usage of PowerShell with different technologies and products to give you an idea of PowerShell usage in the real world

PowerShell in Depth Don Jones,Jeffery Hicks,Richard Siddaway,2014-10-31 Summary PowerShell in Depth Second Edition is the go to reference for administrators working with Windows PowerShell Every major technique technology and tactic is carefully explained and demonstrated providing a hands on guide to almost everything an admin would do in the shell Written by three experienced authors and PowerShell MVPs this is the PowerShell book you ll keep next to your monitor not on your bookshelf Purchase of the print book includes a free eBook in PDF Kindle and ePub formats from Manning Publications About the Book A Windows admin using PowerShell every day may not have the time to search the net every

time he or she hits a snag Wouldn t it be great to have a team of seasoned PowerShell experts ready to answer even the toughest questions That s what you get with this book PowerShell in Depth Second Edition is the go to reference for administrators working with Windows PowerShell Every major technique technology and tactic is carefully explained and demonstrated providing a hands on guide to almost everything an admin would do in the shell Written by PowerShell MVPs Don Jones Jeffrey Hicks and Richard Siddaway each valuable technique was developed and thoroughly tested so you ll be able to consistently write production quality maintainable scripts while saving hours of time and effort This book assumes you know the basics of PowerShell What s Inside Automating tasks Packaging and deploying scripts Introduction to Desired State Configuration PowerShell security Covers PowerShell version 3 and later About the Authors Don Jones Jeffery Hicks and Richard Siddaway are Microsoft MVPs trainers and administrators Collectively they ve authored nearly three dozen books on PowerShell and Windows administration Table of Contents PART 1 POWERSHELL FUNDAMENTALS Introduction PowerShell hosts Using the PowerShell help system The basics of PowerShell syntax Working with PSSnapins and modules Operators Working with objects The PowerShell pipeline Formatting PART 2 POWERSHELL MANAGEMENT PowerShell Remoting Background jobs and scheduling Working with credentials Regular expressions Working with HTML and XML data PSDrives and PSProviders Variables arrays hash tables and script blocks PowerShell security Advanced PowerShell syntax PART 3 POWERSHELL SCRIPTING AND AUTOMATION PowerShell s scripting language Basic scripts and functions Creating objects for output Scope PowerShell workflows Advanced syntax for scripts and functions Script modules and manifest modules Custom formatting views Custom type extensions Data language and internationalization Writing help Error handling techniques Debugging tools and techniques Functions that work like cmdlets Tips and tricks for creating reports PART 4 ADVANCED POWERSHELL Working with the Component Object Model COM Working with NET Framework objects Accessing databases Proxy functions Building a GUI WMI and CIM Working with the web Desired State Configuration

PowerShell 3. 0 Advanced Administration Handbook Sherif Talaat,Haijun Fu,2013 This book is a collection of selected real world scenarios detailed solutions and screenshots If you are a system administrator who wants to automate repeated daily tasks and perform complex administration requirements in a timely manner with less effort then this is the book for you In order to get the maximum benefit of this book you need to have some basic scripting knowledge and good administration experience *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 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   Windows PowerShell 3.0 First Steps Ed Wilson,2013-07-15 Get started with this powerful Windows administration tool Automate Windows administration tasks with ease by learning the fundamentals of Windows PowerShell 3 0 Led by a Windows PowerShell expert you ll learn must know concepts and techniques through easy to follow explanations examples and exercises Once you complete this practical introduction you can go deeper into the Windows PowerShell command line interface and scripting language with Windows PowerShell 3 0 Step by Step Discover how to Create effective Windows PowerShell commands with one line of code Apply Windows PowerShell commands across several Windows platforms Identify missing hotfixes and service packs with a single command Sort group and filter data using the Windows PowerShell pipeline Create users groups and organizational units in Active Directory Add computers to a domain or workgroup with a single line of code Run Windows PowerShell commands on multiple remote computers Unleash the power of scripting with Windows Management Instrumentation WMI   **Microsoft® Windows® PowerShell Programming for the Absolute Beginner, Third Edition** Jerry Ford,2014 Learning doesn t have to be boring MICROSOFT WINDOWS POWERSHELL PROGRAMMING FOR THE ABSOLUTE BEGINNER THIRD EDITION keeps things fun and interesting by teaching you how to program through the development of computer games In these pages you ll discover everything you need to know to begin developing your own scripts You ll develop a new game that reinforces a newly learned concept in each chapter No prior experience or programming knowledge is required Topics covered include

the basic steps involved in interacting with the PowerShell command prompt and in creating and executing PowerShell scripts object based scripting and PowerShell s relationship with the NET Framework the way to implement conditional logic and set up loops to automate repetitive tasks and process large collections of data how to improve the overall organization of your PowerShell scripts using functions and advanced topics such as tracking down and debugging errors and using PowerShell to interact with Windows Management Instrumentation The third edition of this book is a PowerShell scripting primer for either PowerShell 3 0 or PowerShell 4 0 Regardless of which version of PowerShell you are working with this unique book has you covered After reading MICROSOFT WINDOWS POWERSHELL FOR THE ABSOLUTE BEGINNER THIRD EDITION not only will you have access to a collection of working sample scripts you will have laid a foundation that allows you to move on and begin to tackle real world challenges *POWERSHELL FOR IT PROS* JESSE. SPRINTER,2023

Instant Windows PowerShell Vinith Menon,2013-10-05 Get to grips with a new technology understand what it is and what it can do for you and then get to work with the most important features and tasks A practical hands on tutorial approach that explores the concepts of PowerShell in a friendly manner taking an adhoc approach to each topic If you are an administrator who is new to PowerShell or are looking to get a good grounding in these new features this book is ideal for you It s assumed that you will have some experience in PowerShell and Windows Server as well being familiar with the PowerShell command line *Learn PowerShell Toolmaking in a Month of Lunches* Don Jones,Jeffery Hicks,2013 Written by PowerShell MVPs Offers practical real world examples Teaches toolmaking from the ground up **Mastering PowerShell - Second Edition** Chris Dent,Brenton J. W. Blawat,2017-10-26 Master the art of automating and managing your environment using PowerShellAbout 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 environmentWho This Book Is ForIf 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 PowerShellIn DetailPowerShell 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 approachThis practical guide covers all the advanced PowerShell functionalities that an administrator needs to learn to automate their environments *Windows PowerShell Best Practices* Ed Wilson,2013 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** Matthew Adams,2017-03-13 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   The PowerShell Scripting and Toolmaking Book Don Jones,Jeffrey Hicks,2017-02-24 Go beyond the PowerShell command line and become a Toolmaker Learn the techniques patterns and practices that go into professional native style scripting in the PowerShell environment PowerShell MVPs Don Jones and Jeffery Hicks authors of some of the first and most popular PowerShell books ever walk you through a guided tour of toolmaking including advanced topics like debugging help authoring type extensions and more They introduce you to key open source tools like Platyps and Pester helping you become a more professional and well rounded toolmaker They even dive into data connectivity helping you use some of the most common data storage mechanisms and formats in your scripts Everything you need is right here including hands on exercises review questions and more Start becoming a PowerShell Toolmaker today

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