

Windows Powershell 6 It Pro Solutions

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.

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 WWPDP: 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

An essential how-to guide for experienced DBAs on the most significant product release since 2005! Microsoft SQL Server 2012 will have major changes throughout the SQL Server and will impact how DBAs administer the database. With this book, a team of well-known SQL Server experts introduces the many new features of the most recent version of SQL Server and deciphers how these changes will affect the methods that administrators have been using for years. Loaded with unique tips, tricks, and workarounds for handling the most difficult SQL Server admin issues, this how-to guide deciphers topics such as performance tuning, backup and recovery, scaling and replication, clustering, and security. Serves as a must-have how-to guide on the new features of the 2012 release of Microsoft SQL Server Walks you through ways to manage and monitor SQL Server and automate administration Guides you through SQL Azure for cloud computing, data replication, and data warehouse performance improvements Addresses client-connectivity enhancements, new features that ensure high availability of mission-critical applications, and tighter integration with Excel and SharePoint for data analysis and reporting Highlights major changes to the suite of SQL Server BI tools, including integration, reporting, and analysis services Includes real-world case examples and best practices from Microsoft insiders If you're a database administrator eager to get started with the newest version of SQL Server, then this book is essential reading.

Providing you with the programmer's approach to understanding Windows PowerShell, this book introduces the concepts, components, and development techniques for building software packages that leverage the power of PowerShell. The author team of PowerShell experts shows you how PowerShell makes writing code easy by providing a runtime engine with its own parser, plus you'll discover that with PowerShell, all of the .NET Framework objects become accessible via scripting, making PowerShell a very powerful addition to your toolbox and a popular choice for future development.

Instant Windows PowerShell

Professional Microsoft IIS 8

Windows PowerShell 2.0 Best Practices

PowerShell for Office 365

Windows Server 2019 & PowerShell All-in-One For Dummies

Systemadministration mit Skripten für alle Windows-Versionen inkl. Windows 10 und Windows Server 2016 Sowohl in großen als auch in kleineren Computernetzwerken gibt es wiederkehrende Aufgaben, die sich durch Skripte automatisieren lassen. Windows bietet mit dem Windows Script Host (WSH) und der Windows PowerShell (WPS) zwei Produkte für diese automatisierte Systemadministration. Administratoren und Power User ohne Programmierkenntnisse erhalten in diesem Fachbuch eine schrittweise Einführung in die Entwicklung von Windows-Skripten mit dem WSH, Visual Basic Script (VBScript) und verschiedenen so genannten COM-Komponenten sowie der PowerShell. Extra: E-Book inside Systemvoraussetzungen für E-Book inside: Internet-Verbindung und Adobe-Reader oder Ebook-Reader bzw. Adobe Digital Editions.

Your one-stop reference for Windows Server 2019 and PowerShell know-how Windows Server 2019 & PowerShell All-in-One For Dummies offers a single reference to help you build and expand your knowledge of all things Windows Server, including the all-important PowerShell framework. Written by an information security pro and professor who trains aspiring system administrators, this book covers the broad range of topics a system administrator needs to know to run Windows Server 2019, including how to install, configure, and secure a system. This

book includes coverage of: Installing & Setting Up Windows Server Configuring Windows Server 2019 Administering Windows Server 2019 Configuring Networking Managing Security Working with Windows PowerShell Installing and Administering Hyper-V Installing, Configuring, and Using Containers If you're a budding or experienced system administrator looking to build or expand your knowledge of Windows Server, this book has you covered.

Learn to take advantage of the opportunities offered by SQL Server 2014 Microsoft's SQL Server 2014 update means big changes for database administrators, and you need to get up to speed quickly because your methods, workflow, and favorite techniques will be different from here on out. The update's enhanced support of large-scale enterprise databases and significant price advantage mean that SQL Server 2014 will become even more widely adopted across the industry. The update includes new backup and recovery tools, new AlwaysOn features, and enhanced cloud capabilities. In-memory OLTP, Buffer Pool Extensions for SSDs, and a new Cardinality Estimator can improve functionality and smooth out the workflow, but only if you understand their full capabilities. Professional Microsoft SQL Server 2014 is your comprehensive guide to working with the new environment. Authors Adam Jorgensen, Bradley Ball, Ross LoForte, Steven Wort, and Brian Knight are the dream team of the SQL Server community, and they put their expertise to work guiding you through the changes. Improve oversight with better management and monitoring Protect your work with enhanced security features Upgrade performance tuning, scaling, replication, and clustering Learn new options for backup and recovery Professional Microsoft SQL Server 2014 includes a companion website with sample code and efficient automation utilities, plus a host of tips, tricks, and workarounds that will make your job as a DBA or database architect much easier. Stop getting frustrated with administrative issues and start taking control. Professional Microsoft SQL Server 2014 is your roadmap to mastering the update and creating solutions that work.

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.

Hands-On Microsoft Windows Server 2019

Microsoft 365 Modern Desktop Administrator Guide to Exam MD-100: Windows 10

TFM

Pro Windows PowerShell

Windows Powershell 6

Stellar author team of Microsoft MVPs helps developers and administrators get the most out of Windows IIS 8 If you're a developer or administrator, you'll want to get thoroughly IIS 8 platform with this complete, in-depth reference. Prepare yourself to administer IIS 8 in not only commercial websites and corporate intranets, but also the mass web hosting. The book covers common administrative tasks associated with monitoring and managing an IIS environment--and then moves well beyond, into extensibility, scripted admin, and other highlights automated options outside the GUI, options that include the PowerShell provider and AppCmd tool. It explores extensibility options for developers, including ISAPI and HTTP into security protocols and high availability/load balancing at a level of detail that is not often found in IIS books. Author team includes Microsoft MVPs and an IIS team member Co-monitoring of Microsoft Internet Information Services (IIS) 8 for administrators and developers, including MOF and MOM Delves into topics not often included in IIS books, including provider and AppCmd tool and other automated options, and extending IIS 8 with ISAPI or HTTPModules Explores security issues in depth, including high availability/load balancing, and and PKI/SSL protocols Explains how to debug and troubleshoot IIS Professional Microsoft IIS 8 features a wealth of information gathered from individuals running major intranets and today, making this an indispensable and real-world reference to keep on hand.

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

Efficiently administer and maintain your development environment with Windows PowerShell About This Book Explore scripting and automation techniques with Windows PowerShell of Windows PowerShell scripting to perform professional level scripting Discover the benefits of the Configuration Management Platform with this step-by-step guide that includes Who This Book Is For If you are an IT professional or developer who has worked on the .Net platform and you want to learn automation using Windows PowerShell, then this book is guide takes you from the basics and gradually moves to an intermediate level to show you how to perform professional scripting. What You Will Learn Understand the concepts of IIS and the basics of programming Manage the LYNC, Exchange, and SharePoint platforms Create a Pull server using a SMB file share and HTTP and HTTPS Use .NET classes in Windows PowerShell to manage Exchange Online Use PowerShell in C# to manage Exchange Online and work with .NET classes in PowerShell Automate LYNC clients, consuming Client Server Object Models SharePoint Online In Detail Windows PowerShell 5.0 for .NET Developers is your self-start guide to performing automation using Windows PowerShell. This book will help you to understand PowerShell syntax and grammar and will also teach you techniques to remove the rough edges of manual deployments. Packed with PowerShell scripts and sample C# codes to automate tasks and scenarios such as administrating office servers to help you save time and perform deployments swiftly and efficiently. The book begins with the Windows PowerShell basics, explore Windows Management Framework 5.0, covers the basic concepts of Desired State Configuration and the importance of idempotent deployments. By the end of the book, you will have mastered Windows PowerShell's features and will be able to automate your tasks and manage configuration effectively. Style and approach This is an easy-to-follow step-by-step guide with each topic is explained with codes and examples. It also includes multiple approaches for a number of tasks to let you choose the best one for you depending on your scenario.

Want to perform programming tasks better, faster, simpler, and make them repeatable? Take a deep dive into Windows PowerShell and discover what this distributed automation platform can do for you. If you're a .NET developer or IT pro, this concise guide will show you how PowerShell's scripting language can help you be more productive on everyday tasks. Quickly learn how to create and embed them into your existing applications, write "little languages" to solve specific problems, and take charge of your code. This book includes example scripts that you can easily adapt and then use in your own PowerShell and .NET solutions. Slice and dice text, XML, CSV, and JSON with ease Embed PowerShell to provide scripting capabilities for your C# apps Create C#

ten times faster with less code Leverage PowerShell's capabilities to work with the Internet Interact with DLLs and create objects, automatically display properties, and call methods
Build domain-specific languages (DSLs) and vocabularies to express solutions more clearly Work with Microsoft Office via the Component Object Model (COM) Discover PowerShell
Windows 8 and Windows Server 2012

Automating SharePoint 2010 with Windows PowerShell 2.0

Microsoft SQL Server 2008 Administration with Windows PowerShell

Windows PowerShell

Professional Windows PowerShell

Windows PowerShell Step by Step

The perfect resource for learning from the ground up, Eckert's HANDS-ON MICROSOFT WINDOWS SERVER 2019 is designed to build a foundation in basic server administration -- no prior server experience required. It covers all of the core Windows Server 2019 features using a logical topic flow and step-by-step exercises that can be performed within a home or college lab environment, making it an ideal choice for a Windows Server 2019 administration course. It teaches you how to deploy Windows Server 2019 in a variety of settings, including data center and cloud environments that rely on virtualization and containers. It also covers configuring and managing server storage, troubleshooting performance issues as well as working with common Windows Server technologies and network services, including Active Directory, DNS, DHCP, IPAM, file sharing, printing and remote access. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

Professional SharePoint 2013 Administration eBook And SharePoint-videos.com Bundle

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

Learn the art of leveraging PowerShell to automate Office 365 repetitive tasks About This Book Master the fundamentals of PowerShell to automate Office 365 tasks. Easily administer scenarios such as user management, reporting, cloud services, and many more. A fast-paced guide that leverages PowerShell commands to increase your productivity. Who This Book Is For The book is aimed at sys admins who are administering office 365 tasks and looking forward to automate the manual tasks. They have no knowledge about PowerShell however basic understanding of PowerShell would be advantageous. What You Will Learn Understand the benefits of scripting and automation and get started using Powershell with Office 365 Explore various PowerShell packages and permissions required to manage Office 365 through PowerShell Create, manage, and remove Office 365 accounts and licenses using PowerShell and the Azure AD Learn about using powershell on other platforms and how to use Office 365 APIs through remoting Work with Exchange Online and SharePoint Online using PowerShell Automate your tasks and build easy-to-read reports using PowerShell In Detail While most common administrative tasks are available via the Office 365 admin center, many IT professionals are unaware of the real power that is available to them below the surface. This book aims to educate readers on how learning PowerShell for Office 365 can simplify repetitive and complex administrative tasks, and enable greater control than is available on the surface. The book starts by teaching readers how to access Office 365 through PowerShell and then explains the PowerShell fundamentals required for automating Office 365 tasks. You will then walk through common administrative cmdlets to manage accounts, licensing, and other scenarios such as automating the importing of multiple users, assigning licenses in Office 365, distribution groups, passwords, and so on. Using practical examples, you will learn to enhance your current functionality by working with Exchange Online, and SharePoint Online using PowerShell. Finally, the book will help you effectively manage complex and repetitive tasks (such as license and account management) and build productive reports. By the end of the book, you will have automated major repetitive tasks in Office 365 using PowerShell. Style and approach This step by step guide focuses on teaching the fundamentals of working with PowerShell for Office 365. It covers practical usage examples such as managing user accounts, licensing, and administering common Office 365 services. You will be able to leverage the processes laid out in the book so that you can move forward and explore other less common administrative tasks or functions.

Windows PowerShell for .NET Developers

Windows PowerShell 3.0 Step by Step

Windows Powershell In Action

Windows 10: Essentials for Administration

Essential PowerShell

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

"PowerShell Tutorial Volume 1" teaches you Windows PowerShell - takes your PowerShell skills from zero to Pro level. Fully hands-on with step-by-step labs! Why You Should Read PowerShell Tutorial Volume 1 This volume has 7 tutorials. At the end of each tutorial, you would have learnt an essential PowerShell concept. Each Tutorial also contains a step by step lab so you can practice as you learn. Each PowerShell tutorial is independent but builds on the knowledge of the previous tutorial. What is in PowerShell Tutorial Volume 1? POWERSHELL TUTORIAL 1: Introduction to PowerShell and Cmdlets: Tutorial 1 Introduces PowerShell and PowerShell cmdlets. It then teaches you how to find cmdlets using the Get-Command cmdlet. Tutorial 1 also discusses cmdlet parameters and Aliases. POWERSHELL TUTORIAL 2: Getting help with the Get-Help cmdlet: Tutorial 2 focuses on the Get-Help Command. It

teaches you how to use the Get-Help command to get information about cmdlets. Tutorial 2 also covers how to understand cmdlet syntaxes from the results of the Get-Help command. POWERSHELL TUTORIAL 3: Variables and Pipelines: Tutorial 3 introduces you to PowerShell variables, one of the most important concepts in PowerShell scripting. It covers different types of variables and how you can use them in scripting. Tutorial 3 also covers PowerShell Pipelines and how to use them. POWERSHELL TUTORIAL 4: Introduction to Scripts and Functions: Tutorial 4 Introduces you to Scripts, Functions and Modules. It teaches you how to write Scripts, Functions and Modules. It also teaches you the difference between them. Tutorial 4 also covers PowerShell File Extensions; the default location for PowerShell modules and how you install PowerShell modules. POWERSHELL TUTORIAL 5: Commenting and Breaking scripts: Tutorial 5 teaches you How to add Comments to your Script; it shows you how to break (stop executing) scripts using the 'Break' statement. Tutorial 5 also teaches you how and why you should use the 'Escape' (Backtick) Character in PowerShell scripting. It also shows you how to use this very important character in PowerShell scripting. POWERSHELL TUTORIAL 6: PowerShell Operators: Tutorial 6 teaches you PowerShell Operators. Understanding PowerShell Operators is very important to your scripting career. Tutorial 6 teaches you about Comparison, Arithmetic, Logical, Split, Join, Redirection and Assignment Operators. Tutorial 6 also teaches you detailed application of the listed operators with examples. POWERSHELL TUTORIAL 7: Introduction to Object Properties: Tutorial 7 (the last in Volume 1) introduces you to Object Properties, another very important concept! This tutorial teaches you how to access PowerShell object properties using variables. Tutorial 7 also teaches you about Objects 'MemberTypes' and their applications in scripting. Finally, Tutorial 7 explores the Get-Member Cmdlet in detail and shows you how to manipulate object properties using this powerful cmdlet. Connect with PowerShell Tutorial Book Series [Twitter.com/PowerShellDIY](https://twitter.com/PowerShellDIY) facebook.com/PowerShellTutorialBook Get your copy of "PowerShell Tutorial Volume 1" at this discounted price Tags: Powershell Scripting, Powershell In Depth, Powershell Cookbook, Windows Powershell, Windows PowerShell 4.0, windows PowerShell for developers, windows PowerShell in action, Powershell 5, Powershell 5.0, PowerShell For Beginners, PowerShell step by step

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. Your hands-on, step-by-step guide to automating Windows administration with Windows PowerShell 3.0 Teach yourself the fundamentals of Windows PowerShell 3.0 command line interface and scripting language—one step at a time. Written by a leading scripting expert, this practical tutorial delivers learn-by-doing exercises, timesaving tips, and hands-on sample scripts for performing administrative tasks on both local and remote Windows systems. Discover how to: Use built-in cmdlets to execute commands Write scripts to handle recurring tasks Use providers to access information beyond the shell environment Configure network components with Windows Management Instrumentation Manage users, groups, and computers with Active Directory services Execute scripts to administer and troubleshoot Microsoft Exchange Server 2010

Windows Powershell

Learn PowerShell Scripting in a Month of Lunches

Windows PowerShell 3.0 First Steps

WINDOWS SCRIPTING LERNEN

DotNetNuke creator Shaun Walker leads this superlative author team of MVPs while delivering the latest update of a bestseller. They offer complete coverage of the major revisions to DotNetNuke 5, such as more granular administration, widgets, XHTML compliance, improved social networking, workflow, and better content management. They thoroughly cover installing, configuring, administering, and developing modules for DotNetNuke. You'll learn portal and host administration, configuration in a hosted environment, developing and working with modules, designing a DotNetNuke portal with skins, integrating workflow in DotNetNuke, using DotNetNuke social networking tools, and much more.

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

"PowerShell Tutorial Volume 1" teaches you Windows PowerShell - takes your PowerShell skills from zero to Pro level. Fully hands-on with step-by-step labs! Why You Should Read PowerShell Tutorial Volume 1 This volume has 7 tutorials. At the end of each tutorial, you would have learnt an essential PowerShell concept. Each Tutorial also contains a step by step lab so you can practice as you learn. Each PowerShell tutorial is independent but builds on the knowledge of the previous tutorial. What is in PowerShell Tutorial Volume 1? POWERSHELL TUTORIAL 1: Introduction to PowerShell and Cmdlets:

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Professional Microsoft SQL Server 2014 Administration

VON WINDOWS SCRIPT HOST UND VISUAL BASIC SCRIPT BIS ZUR WINDOWS POWERSHELL

Essentials for Administration

Learn Windows PowerShell 3 in a Month of Lunches

Professional Microsoft SQL Server 2012 Administration

Getting Started with PowerShell Packt Publishing Ltd

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 Covers all release versions of PowerShell for all current versions of the Windows Server and Windows operating systems. Practical and precise, this hands-on guide with ready answers is designed for IT professionals working with Microsoft products, whether for on-premises, hybrid or cloud support. Inside, you'll find expert

insights, tips, tricks and workarounds that will show you how to make the most of Windows PowerShell in the shortest amount of time possible. During the course of reading this book, you will master a number of complex topics, techniques, commands and functions. This book focuses on administration tasks, including: Using PowerShell to manage Windows roles and features Inventorying and evaluating computers using scripting Working with PowerShell drives, directories and files Reading and writing file contents Getting and setting security descriptors Creating access rules and taking ownership Configuring file and directory auditing Navigating the Windows Registry Creating and managing registry keys Comparing registry keys Viewing and filtering event logs Setting event log options Writing custom events Managing the state of system services Configuring service options, such as logon and recovery Joining computers to a domain Renaming computers Restarting or shutting down computers remotely Enabling or disabling system restore Creating and using checkpoints Recovering from restore points Examining running processes Analyzing computer performance Monitoring resource usage Windows PowerShell 6: Essentials for Administration can be used with the companion book, Windows PowerShell 6: IT Pro Solutions.

Take advantage of everything Microsoft's new PowerShell 7 has to offer PowerShell 7 for IT Pros is your guide to using PowerShell 7, the open source, cross-platform version of Windows PowerShell. Windows IT professionals can begin setting up automation in PowerShell 7, which features many improvements over the early version of PowerShell Core and Windows PowerShell. PowerShell 7 users can enjoy the high level of compatibility with the Windows PowerShell modules they rely on today. This book shows IT professionals—especially Windows administrators and developers—how to use PowerShell7 to engage in their most important tasks, such as managing networking, using AD/DNS/DHCP, leveraging Azure, and more. To make it easy to learn everything PowerShell 7 has to offer, this book includes robust examples, each containing sample code so readers can follow along. Scripts are based on PowerShell 7 running on Windows 10 19H1 or later and Windows Server 2019. • Learn to navigate the PowerShell 7 administrative environment • Use PowerShell 7 to automate networking, Active Directory, Windows storage, shared data, and more • Run Windows Update, IIS, Hyper-V, and WMI and CIM cmdlets within PowerShell 7 • Understand how to handle reporting in the new PowerShell 7 environment PowerShell 7 for IT Pros provides exclusive coverage of using PowerShell with both cloud-based systems and virtualized environments (Hyper V and Azure). Written by PowerShell veteran Thomas Lee, this is the only book you'll need to get started with PowerShell 7.

Powershell Tutorial Volume 1

7 Practical Tutorials That Will Get You Scripting in No Time

Professional DotNetNuke 5

Getting Started with PowerShell

Enhance Your Productivity and Enable Rapid Application Development

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.

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

A learning guide to get you started with PowerShell DSC. About This Book Create flexible and maintainable deployments using DSC configuration scripts that stand the test of time. Explore the core architecture, concepts, and practices in depth. Learning PowerShell DSC is a step-by-step guide that shows you how to start using and taking advantage of PowerShell DSC along with configuring and

deploying applications. Who This Book Is For If you are a system administrator, developer, or engineer and are responsible for configuration management and automation, then this book is for you. IT professionals who wish to learn PowerShell Desired State Configuration for the efficient management, configuration, and deployment of systems will also find this book useful. What You Will Learn Explore PowerShell Desired State Configuration and activities around it, including the need for configuration management and abstraction. Create reusable DSC configurations and debug/troubleshoot configuration files. Learn about the PowerShell DSC architecture with the help of push-and-pull management and workflows. Define DSC configuration scripts and data files and push DSC configuration files remotely and locally. Validate DSC Pull Server install and register target nodes with a DSC Pull Server. Learn about DSC Cross Platform and install PowerShell on Linux and macOS along with real-life DSC uses and different types of deployment. In Detail The main goal of this book is to teach you to configure, deploy, and manage your system using the new features of PowerShell v5/v6 DSC. This book begins with the basics of PowerShell Desired State Configuration, covering its architecture and components. It familiarizes you with the set of Windows PowerShell language extensions and new Windows PowerShell commands that make up DSC. Then it helps you create DSC custom resources and work with DSC configurations with the help of practical examples. Finally, it describes how to deploy configuration data using PowerShell DSC. Throughout this book, we will be focusing on concepts such as building configurations with parameters, the local configuration manager, and testing and restoring configurations using PowerShell DSC. By the end of the book, you will be able to deploy a real-world application end-to-end and will be familiar enough with the powerful Desired State Configuration platform to achieve continuous delivery and efficiently and easily manage and deploy data for systems. Style and approach The purpose of this book is to introduce readers to the powerful PowerShell Desired State Configuration platform to achieve continuous delivery, efficient management, and the easy deployment of data for systems.

Finally, a hands-on, personalized guide to Windows PowerShell that covers all release versions including PowerShell 6, 5, 4 and 3 for Windows Server 2016, 2012 R2, 2012 as well as Windows 10, 8.1 and 7! Practical and precise, this guide provides ready answers and is designed for IT professionals working with Microsoft products, whether for on-premises, hybrid or cloud support. Inside, you'll find expert insights, tips, tricks and workarounds that will show you how to make the most of Windows PowerShell in the shortest amount of time possible. During the course of reading this book, you will master a number of complex topics, techniques, commands and functions, including: Passing startup parameters and initializing the environment Creating and using scripts for everyday tasks Parsing values, output streams and formatting output Creating and using profiles, aliases and other shortcuts Using snap-ins, providers, and modules Enabling remoting and establishing sessions Creating background jobs and scheduling them to run automatically Using expressions and operators Working with variables, arrays, strings and more Creating aliases and functions Understanding object types, methods and properties Creating and using objects Using transcripts to record activities at the prompt Executing blocks of commands as transactions Performing conditional execution with If statements Checking for multiple conditions with switch Controlling the flow of execution using loops This book zeroes in on core PowerShell structures with a laser focus, giving you a clear and concise handbook for the essentials. Buy the book today and begin your journey to PowerShell mastery. And if you're already a PowerShell zen master, you'll find this book makes an excellent resource reference whether you are working in the office, at home connecting remotely, or on the go.

PowerShell in Practice

Snapins, Cmdlets, Hosts and Providers

PowerShell in Depth

Powershell Tutorial

Learning PowerShell DSC

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.

Windows PowerShell in Action was written by Bruce Payette, one of the founding members of the Windows PowerShell team, co-designer of the PowerShell language and the principal author of the PowerShell language implementation. This book is a tutorial for sysadmins and developers introducing the PowerShell language and its environment. It shows you how to build scripts and utilities to automate system tasks or create powerful system management

tools to handle the day-to-day tasks that drive a Windows administrator's life. It's rich in interesting examples that will spark your imagination. The book covers batch scripting and string processing, COM, WMI, and even .NET and WinForms programming. Welcome to PowerShell. The basics. Working with types. Operators and expressions. Advanced operators and variables. Flow control in scripts. Functions and scripts. Scriptblocks and objects. Errors, exceptions, and script debugging. Processing text, files, and XML. Getting fancy-.NET and WinForms. Windows objects: COM and WMI. Security, security, security

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) Expert advice for Windows 10 right at your fingertips. Includes updates for the Windows 10 anniversary edition! Practical and precise, this hands-on guide with ready answers is designed for architects, administrators, engineers and others working with Windows 10. If you're an IT Pro responsible for configuring, managing and maintaining computers running Windows 10, start with this well-organized and authoritative resource. Inside you'll find expert insights, tips, tricks and workarounds that will save time and help you get the job done by giving you the right information right now. During the course of reading this book, you will master a number of complex topics, techniques, commands and functions. Topics covered include: Deploying and customizing the operating system Installing and maintaining universal apps Configuring Group Policy preferences and settings Provisioning and using device management Managing access and security Installing hardware devices and drivers Troubleshooting and resolving system issues And much, much more!!! Not only will this informative training manual help you become familiar with essential concepts, it'll help you reach new levels of mastery. This is the ideal concise, immediate answers reference you'll want with you at all times. Table of Contents About This Book 1. Welcome to Windows 10 Navigating Windows 10 Editions Deploying Windows 10 Setting up Out of the Box 2. Working with Windows 10 Exploring Key Features Getting to Know Windows 10 Running Windows 10 3. Implementing Device Management Getting Started with Microsoft Intune Getting Started with the Windows 10 ADK Working with Windows Imaging And Configuration Designer Creating and Deploying Provisioning Packages Provisioning Walkthrough: Upgrading to Mobile Enterprise Edition 4. Using Policy-based Management Configuring Domain-Joined Devices Implementing Policy-based Management Using Logon and Startup Policies Using Scripts in Policies Using Data Management Policies Using Networking Policies 5. Using Preferences for Management Working with Preferences Managing Preference Items 6. Fine-Tuning User Account Control Understanding UAC in Windows 10 Managing Elevation of Privileges Managing UAC for Apps 7. Creating and Configuring Accounts Local, Domain and Connected Accounts Creating User Accounts Configuring User Accounts 8. Maintaining Accounts Managing Local User Accounts and Groups Managing User Account Passwords Managing Stored Credentials 9. Supporting Windows 10 Essential Support Tools Managing System Time Configuring Internet Time Essential Maintenance Tools 10. Managing System Properties Optimizing Performance Options Managing Environment Variables Configuring Startup and Recovery Options Managing System Protection Settings 11. Optimizing Power Management Managing Battery Power Understanding Power Plans and Sleep Modes Configuring Power Options Managing Power Options from the Command Line Working with Power Plans Using Alarms and Configuring Alarm Actions 12. Configuring Hardware Managing Device Installation Working with Device Drivers Maintaining Devices and Drivers 13. Installing and Maintaining Universal Apps Working with Apps Maintaining Apps Optimizing App Security for the Enterprise 14. Maintaining Windows 10 Windows Update: The Essentials Working with Support Services Managing Services Using Preferences Detecting and Resolving Windows 10 Errors Scheduling Maintenance Tasks 15. Managing Data and Recovery Using File History Using Previous Versions Managing Failures Creating a Recovery Drive Using Restore Points for Recovery Troubleshooting Startup and Shutdown William Stanek has been developing expert solutions for and writing professionally about Microsoft Windows since 1995. In Windows 10: Essentials for Administration, William shares his extensive knowledge of the product.

Windows PowerShell for Developers

Professional Windows PowerShell Programming

Learn Powershell Core 6.0

PowerShell 7 for IT Professionals

7 Practical Tutorials That Will Get You Scripting In No Time

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.

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.

Describes the concepts, components, and development techniques of Windows PowerShell to enable users to build software packages and applications.

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Open Source Web Application Framework for ASP.NET