Powershell Tutorial Volume 1 7 Practical Tutorials That Will Get You Scripting In No Time Powershell Scripting Powershell In Depth Powershell Cookbook Windows Powershell

Prepare for the future of Microsoft automation with this no-nonsense guide Windows PowerShell 2 is the scripting language that enables automation within the Windows operating system. Packed with powerful new features, this latest version is complex, and Windows PowerShell 2 For Dummies is the perfect guide to help system administrators get up to speed. Written by a Microsoft MVP with direct access to the program managers and developers, this book covers every new feature of Windows PowerShell 2 in a friendly, easy-to-follow format. Windows PowerShell 2 is the updated scripting language that enables system administrators to automate Windows operating systems System administrators with limited scripting experience will find this book helps them learn the fundamentals of Windows PowerShell 2 quickly and easily Translates the jargon and complex syntax of Windows PowerShell 2 Covers script debugging improvements, the ability to invoke commands remotely, and the new user interface Uses real-world applications to clarify the theory, fundamentals, and techniques of the scripting language Written by a Microsoft MVP with direct access to the developers of

Windows PowerShell 2 Windows PowerShell 2 For Dummies makes this tool easily accessible to administrators of every experience level.

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.

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. Whether 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 PowerShell scripts 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 pull apart, tweak, 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 GUI applications five to 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 in live
interactive sessions Build domain-specific languages (DSLs) and vocabularies to
express solutions more clearly Work with Microsoft Office via the Component Object
Model (COM) Discover PowerShell v3 features included with Windows 8 and Windows
Server 2012
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.

Learn to use PowerShell, Microsoft's scripting language, to automate real-world tasks that IT professionals and system administrators deal with every day. Save Time. Automate. PowerShell® is both a scripting language and an administrative shell that lets you control and automate nearly every aspect of IT. In PowerShell for Sysadmins, five-time Microsoft® MVP "Adam the Automator" Bertram shows you how to use PowerShell to manage and automate your desktop and server environments so that you can head out for an early lunch. You'll learn how to: • Combine commands, control flow, handle errors, write scripts, run scripts remotely, and test scripts with the PowerShell testing framework, Pester • Parse structured data like XML and JSON, work with common domains (like Active Directory, Azure, and Amazon Web Services), and create a real-world server inventory script • Design and build a PowerShell module to demonstrate PowerShell isn't just about ad-hoc scripts • Use PowerShell to create a hands-off, completely automated Windows deployment • Build an entire Active Directory forest from nothing but a Hyper-V host and a few ISO files • Create endless Web and SQL servers with just a few lines of code! Real-world examples throughout

help bridge the gap between theory and actual system, and the author's anecdotes keep things lively. Stop with the expensive software and fancy consultants. Learn how to manage your own environment with PowerShell for Sysadmins and make everyone happy. Covers Windows PowerShell v5.1

PowerShell 7 for IT ProfessionalsJohn Wiley & Sons

If you are a system administrator who wants to become an expert in controlling and automating your Windows environment, then this book is for you. Prior knowledge of PowerShell's core elements and applications is required for this book.

How do you use PowerShell to navigate the filesystem, manage files and folders, or retrieve a web page? This introduction to the PowerShell language and scripting environment provides more than 400 task-oriented recipes to help you solve all kinds of problems. Intermediate to advanced system administrators will find more than 100 tried-and-tested scripts they can copy and use immediately. Updated for PowerShell 5, Open Source PowerShell up to 7 and beyond, this comprehensive cookbook includes hands-on recipes for common tasks and administrative jobs that you can apply whether you're on the client or server version of Windows. You also get quick references to technologies used in conjunction with PowerShell, including format specifiers and frequently referenced registry keys to selected .NET, COM, and WMI classes. Learn how to use PowerShell on Windows 10 and Windows Server 2019 Tour PowerShell's core features, including the command model, object-based pipeline, and ubiquitous

scripting Master fundamentals such as the interactive shell, pipeline, and object concepts Perform common tasks that involve working with files, Internet-connected scripts, user interaction, and more Solve tasks in systems and enterprise management, such as working with Active Directory and the filesystem

Grasp advanced PowerShell 7.1 functionalities for effective automation of your environment Key Features Automate complex tasks, manipulate data, and secure your environment Work with dual code for PowerShell 7 and Windows PowerShell to maintain compatibility with older versions See PowerShell in action, from learning the fundamentals to creating classes, scripts, and modules Book Description PowerShell scripts offer a convenient way to automate various tasks, although working effectively with these scripts can be challenging. Mastering PowerShell Scripting helps you to 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. Some familiarity with operating systems would be useful, but not essential.

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.

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 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

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

This book is designed to be like a conference in a book where each chapter is written by a different author who is a subject matter expert on the topic covered in their chapter. Each chapter is also independent of the others so you can read one chapter, ten chapters, or all of them. You can start with the first chapter, the last one, or somewhere in-between and not miss out on anything related to that particular topic. This book is written for the intermediate to advanced audience. Prior experience with PowerShell is highly recommended.100% of the

royalties from this book are donated to the PowerShell + DevOps Global Summit's OnRamp Scholarship Program. Learn more at PowerShellSummit.org.

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!

Summary Here's your chance to learn from the best in the business. PowerShell Deep Dives is a trove of essential techniques, practical guidance, and the expert insights you earn only through years of experience. Editors Jeffery Hicks, Richard Siddaway, Oisin Grehan, and Aleksandar Nikolic hand-picked the 28 chapters in the book's four parts: Administration, Scripting, Development, and Platforms. About the Technology PowerShell has permanently changed Windows administration. This powerful scripting and automation tool allows you to control virtually every aspect of Windows and most Microsoft servers like IIS and SQL Server. Here's your chance to learn from the best in the business. About this Book PowerShell Deep Dives is a trove of essential techniques and practical guidance. It is rich with insights from experts who won them through years of experience. The book's 28 chapters, grouped in four parts (Administration, Scripting, Development, and Platforms), were hand-picked by four section editors: Jeffery Hicks, Richard Siddaway, Oisin Grehan, and Aleksandar Nikolic. Whether you're just getting started with PowerShell or you already use it daily, you'll find yourself returning to this book over and over. What's Inside Managing systems through a

keyhole The Ten Commandments of PowerShell scripting Scalable scripting for large datasets Adding automatic remoting Provisioning web servers and websites automatically to IIS 8 And 23 more fantastic chapters Purchase of the print book includes a free eBook in PDF, Kindle, and ePub formats from Manning Publications. About the AuthorsEditors Jeffery Hicks, Richard Siddaway, Oisin Grehan, and Aleksandar Nikolic are joined by PowerShell experts Chris Bellee, Bartek Bielawski, Robert C. Cain, Jim Christopher, Adam Driscoll, Josh Gavant, Jason Helmick, Don Jones, Ashley McGlone, Jonathan Medd, Ben Miller, James O'Neill, Arnaud Petitjean, Vadims Podans, Karl Prosser, Boe Prox, Matthew Reynolds, Mike Robbins, Donabel Santos, Will Steele, Trevor Sullivan, and Jeff Wouters. Table of Contents PART 1 POWERSHELL ADMINISTRATION Diagnosing and troubleshooting PowerShell remoting CIM sessions 22 Collecting and analyzing performance counter data TCP port communications with PowerShell Managing systems through a keyhole Using PowerShell to audit user logon events Managing and administering a certification authoritydatabase with PowerShell Using PowerShell to reduce Active Directory token bloat PART 2 POWERSHELL SCRIPTING The 10 PowerShell scripting commandments Avoiding the pipeline A template for handling and reporting errors Tips and tricks for creating complex or advancedHTML reports with PowerShell Using and "abusing" dynamic parameters PowerShell type formatting Scalable scripting for large data sets: pipelineand database techniques Building your own WMI-based cmdlets Turning command-line tools into PowerShell tools PART 3 POWERSHELL FOR DEVELOPERS Using Source Control Software with PowerShell Inline .NET code PowerShell and XML: better together Adding automatic remoting to advanced functionsand cmdlets Taming software builds (and other complicated processes)with psake PART 4 POWERSHELL

PLATFORMS PowerShell and the SQL Server provider Creating flexible subscriptions in SSRS Inventory database table statistics using PowerShellSQL Server Management Objects WSUS and PowerShell Provisioning IIS web servers and sites with PowerShell Active Directory Group Management application

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.

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 WWPD: 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

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 and Powershell Command Line 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 Necessary This 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? Download "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!

How do you use PowerShell to navigate the filesystem, manage files and folders, or retrieve a web page? This introduction to the PowerShell language and scripting environment provides more than 400 task-oriented recipes to help you solve all kinds of problems. Intermediate to advanced system administrators will find more than 100 tried-and-tested scripts they can copy and use immediately. Updated for PowerShell 5.1 and

Open Source PowerShell up to 7.0 and beyond, this comprehensive cookbook includes hands-on recipes for common tasks and administrative jobs that you can apply whether you're on the client or server version of Windows. You also get quick references to technologies used in conjunction with PowerShell, including regular expressions, the XPath language, format specifiers, and frequently referenced .NET, COM, and WMI classes. Learn how to use PowerShell on Windows 10 and Windows Server 2019 Tour PowerShell's core features, including the command model, object-based pipeline, and ubiquitous scripting Master fundamentals such as the interactive shell, pipeline, and object concepts Perform common tasks that involve working with files, internet-connected scripts, user interaction, and more Solve tasks in systems and enterprise management, such as working with Active Directory and the filesystem PowerShell provides a single, unified administrative command line from which to control and automate virtually every aspect of a Windows system. It accepts and executes commands immediately, and scripts can be written to manage most Windows servers like Exchange, IIS, and SharePoint. This updated book covers PowerShell features that run on Windows 7, Windows Server 2008 R2, and later. This edition is appropriate for PowerShell version 3 and later. There is coverage for new PowerShell version 5 features like PowerShellGet, however PowerShell fundamentals are unchanged. Learn Windows PowerShell in a Month of Lunches, Third Edition is an innovative tutorial designed for busy IT professionals. With just one hour a day for a month, readers will

be automating Windows tasks faster than they ever thought possible. They start with the basics (What is PowerShell and what can be done with it). Then, it moves systematically through the techniques and features that facilitate efficient and effective results. Purchase of the print book includes a free eBook in PDF, Kindle, and ePub formats from Manning Publications.

Summary Learn Windows PowerShell in a Month of Lunches, Third Edition is an innovative tutorial designed for busy IT professionals. This updated edition covers PowerShell features that run on Windows 7, Windows Server 2008 R2 and later, PowerShell v3 and later, and includes v5 features like PowerShellGet. Purchase of the print book includes a free eBook in PDF, Kindle, and ePub formats from Manning Publications. About the Technology PowerShell is both a scripting language and an administrative shell that lets you control and automate nearly every aspect of Windows. It accepts and executes commands interactively and you can write scripts to manage most Windows servers like Exchange, IIS, and SharePoint, as well as online services like Azure and Office 365. About the Book Learn Windows PowerShell in a Month of Lunches, Third Edition is an innovative tutorial designed for busy IT professionals. Just set aside one hour a day - lunchtime would be perfect - for a month, and you'll be automating Windows tasks faster than you ever thought possible. This updated edition covers PowerShell features that run on Windows 7, Windows Server 2008 R2 and later, PowerShell v3 and later, and includes v5 features like PowerShellGet. What's Inside

Learn PowerShell from the beginning, no experience required! Covers PowerShell v3 and up, Windows 7, and Windows Server 2008 R2 and later Each lesson takes you an hour or less About the Reader Experience with Windows administration is helpful. No programming or scripting experience needed. About the Author Veteran PowerShell MVPs Don Jones and Jeffery Hicks bring years as successful trainers to this concise, easy-to-follow book. Table of Contents Before you begin Meet PowerShell Using the help system Running commands Working with providers The pipeline: connecting commands Adding commands Objects: data by another name The pipeline, deeper Formatting - and why it's done on the right Filtering and comparisons A practical interlude Remote control: one-to-one, and one-to-many Using Windows Management Instrumentation and CIM Multitasking with background jobs Working with many objects, one at a time Security alert! Variables: a place to store your stuff Input and output Sessions: remote control with less work You call this scripting? Improving your parameterized script Advanced remoting configuration Using regular expressions to parse text files Additional random tips, tricks, and techniques Using someone else's script Never the end PowerShell cheat sheet

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

PowerShell scripts offer a handy way to automate various chores. Working with these scripts effectively can be a difficult task.This comprehensive guide starts from scratch

and covers advanced-level topics along with tips to make you a PowerShell Core 6.0 scripting expert.

Learning PowerShell is a custom-built, handcrafted, painstakingly curated book designed to get you from total PowerShell newbie to confident PowerShell user in as little as four weeks. This book assumes no prior knowledge, perfect for non-developers and GUI addicts who recognize that PowerShell is the future but need a good bit of handholding to achieve mastery. It is also a simple guide for the hundreds of thousands of PowerShell users who have not attained the level of PowerShell knowledge that they really need. With Learning PowerShell at your side, you will see that you don't have to be a developer to use PowerShell and you don't need to be a scripting wizard to derive value from integrating PowerShell into your daily administrative activities. The book is a learning resource that covers every topic worth discussing for a PowerShell beginner, with a depth of explanation unparalleled by any book currently on the market. With this book, you don't have to have a lot of time to learn the language and you can begin applying what you master almost immediately. Even skeptics of PowerShell, and command lines in general, will come away with a renewed sense of respect for the language and ideas on how to put it to use.

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

Pro PowerShell for Database Developers helps you master PowerShell application development by continuing where other books leave off. There are no "Hello World" functions here, just real-world examples that get down to business. Develop and deploy database and

ETL applications in a reusable framework. Read from any data source and write to any destination. Integrate PowerShell with SQL Server. Pro PowerShell for Database Developers shows how to dive into the PowerShell environment and customize it to your needs. Learn about CmdletBinding and its use in extending functions with powerful new features. Also learn to package functions into libraries called modules that are loaded automatically on demand. PowerShell is about automation and getting work done when you're not around to perform it. To that end you'll see how to schedule PowerShell applications using SQL Agent and the scheduled job cmdlets. And for when you are around to run automated processes in person, you'll learn to add a Windows GUI to your applications to give them that professional polish. Other exciting topics include: Creating objects with custom methods and properties and extending them with PowerShell-style inheritance. Implementing function polymorphism using parameter sets. Using PowerShell as an ETL tool surpassing even SSIS. Creating distributed, interruptible, and multithreaded programs using PowerShell's workflow engine and the .Net Windows Workflow Foundation. All these topics are explained using real-world examples encapsulated into modules you can immediately put to use in your organization. You'll reap even more as you come to grips with all that PowerShell can do. Begin the journey toward deep expertise and amazing productivity. Buy and read Pro PowerShell for Database Developers today.

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!

"Portable help for PowerShell scripters"--Cover.

This book is written for Windows professionals who are familiar with PowerShell and want to learn to build, operate, and administer their Windows workloads in the Microsoft cloud. Pro PowerShell for Microsoft Azure is packed with practical examples and scripts, with easy-to-follow explanations for a wide range of day-to-day needs and essential administration tasks. Author Sherif Talaat begins by explaining the fundamental concepts behind the Microsoft Azure platform and how to get started configuring it through PowerShell. Readers will find out how to deploy, configure and manage the various components of the Azure platform, from storage and virtual networks to Azure Web Sites, HDInsight clusters and the Azure SQL Database. Workload automation, scheduling and resource management are covered in depth to help build efficiency in everyday tasks, and administrators will gain full control over Azure identity and access rights using Azure Active Directory and Rights Management Services. Put your PowerShell skills to good use and ensure that your applications and data are available anywhere at any time, with Pro PowerShell for Microsoft Azure. What You'll Learn Create and manage virtual networks and VPNs using PowerShell. Configure and maintain Azure Storage accounts, blobs, and containers. Provision and manage a redundant Windows or Linux server.

Deploy and configure your sites in the cloud using Microsoft Azure Web Sites. Provision Apache Hadoop clusters in the cloud using Azure HDInsight. Deploy, configure and manage a Microsoft Azure SQL Database. Protect and secure identities and resources with Azure Active Directory and Azure Rights Management Services. Who This Book Is For This is book is for the intermediate to advanced Windows professional who is ready to make the leap to the cloud.

PowerShell For Beginners! The Ultimate Beginners Crash Course To Mastering The PowerShell Command Line Quickly And Easily Are You Ready To Learn How To Write Clean, Efficient PowerShell Scripts? If So You've Come To The Right Place - Regardless Of How Little Experience You May Have! Learning to program is a fantastic still, and if you're a newbie you've ended up in the right place! PowerShell is a fantastic first or second programming language to learn (and master with the help of this book!). There's a ton of other technical guides out there that aren't clear and concise, and in my opinion use far too much jargon. My job is to teach you in simple, easy to follow terms how to get started and excel at PowerShell programming. You'll find my personal notes and tips peppered throughout the book, making it personal and easy to learn. Here's A Preview Of What PowerShell For Beginners! Contains... A Step Back Into The History Of PowerShell Setting Up The PowerShell Playground! Getting Ready To Run Customizing The Shell & Online Resources PowerShell Versions And Consoles Explained Discovering Commands, Parameters & Strings Essential PowerShell Terminology Working With PowerShell Commands The Piping Function Explained! And Much, Much More! Presents a guide on how to use Windows PowerShell to build administrative tools.

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: 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 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 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. In Learn PowerShell in a Month of Lunches: Covers Windows, Linux, and macOS, you'll learn how PowerShell shapes up to Bash or Python scripting as you write and

run simple scripts that automate boring daily tasks. Learn PowerShell in a Month of Lunches: Covers Windows, Linux, and macOS is a task-focused tutorial for administering Linux and macOS systems using Microsoft PowerShell. Designed for busy IT professionals, this innovative guide will take you from the basics to PowerShell proficiency through 25 tutorials you can do in your lunch break. In Learn PowerShell in a Month of Lunches: Covers Windows, Linux, and macOS, you'll learn how PowerShell shapes up to Bash or Python scripting as you write and run simple scripts that automate boring daily tasks. As you progress through this book—based on the bestselling Learn Windows PowerShell in a Month of Lunches—you'll use PowerShell to write Continuous Integration Pipelines and manage cloud-based servers. Purchase of the print book includes a free eBook in PDF, Kindle, and ePub formats from Manning Publications.

Do you want a system that can rapidly automate tasks and processes?Have you heard about PowerShell and its abilities?Do you want to learn more about it?Microsoft's task automation and configuration management framework, PowerShell, has undergone its latest transformation with PowerShell 7.0, bringing it right up to date perfect for you when it comes to automating tasks that manage operating systems. It takes the idea to a whole new level that users will find exciting and innovative, while being easy to learn and retain as well.Now, with this new and informative book, PowerShell: The Ultimate Beginners Guide to Learn PowerShell Step-by-Step, you can discover the benefits that

it could bring to you, such as: - Rapid automation of tasks- Greater compatibility with
Windows- Simplicity of use- Centralized logging- Manage IT environments at scale-
Access hard to find user information- And much more...Suitable for absolute beginner's
to this concept, PowerShell: The Ultimate Beginners Guide to Learn PowerShell Step-
by-Stepdetails exactly what you need to know in a simple and straightforward language
that anyone will quickly grasp.If that sounds like something you could use in your daily
life, then get a copy now and start learning today!
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.

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

Learn the basic tools and commands to write scripts in PowerShell 7. This hands-on

guide is designed to get you up and running on PowerShell quickly - introducing interactive menus, reading and writing files, and creating code that talks over the network to other scripts, with mini games to facilitate learning. PowerShell for Beginners starts with an introduction to PowerShell and its components. It further discusses the various tools and commands required for writing scripts in PowerShell 7, with learning reinforced by writing mini games. You will learn how to use variables and conditional statements for writing scripts followed by loops and arrays. You will then work with functions and classes in PowerShell. Moving forward, you will go through the PowerShell Console, customizing the title and text colors. Along the way you will see how to read a key press and make sound in PowerShell. The final sections cover game engine layout, how to build a title screen, and implementing the game design using code flow, title screens, levels, and much more. After reading the book you will be able to begin working with PowerShell 7 scripts and understand how to use its tools and commands effectively. What You Will Learn Use Microsoft Visual Studio Code to develop scripts Understand variables, loops and conditional statements in PowerShell Work with scripts to develop a game Discover and use ASCII art generators Comprehend game objects and code Create client-server scripts that communicate over a network Read and write to files Capture input from the keyboard Make PowerShell speak words to help the visually impaired Create text-based adventure games Who This Book Is For Software developers who want to start working with

PowerShell scripts.

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