

Powershell User Guide

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Learn Windows PowerShell 3 in a Month of Lunches - Don Jones
2012-11-22

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

Windows PowerShell Step by Step - Ed Wilson 2015-10-13

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 - Matthew Adams 2017-03-13

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

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

Windows PowerShell in Action - Bruce Payette 2011

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

Windows Server 2016 Automation with PowerShell Cookbook - Thomas Lee 2017-09-21

Over 100 recipes to help you leverage PowerShell to automate Windows Server 2016 manual tasks About This Book Automate Windows server tasks with the powerful features of the PowerShell Language Master new features such as DevOps, containers, and Nano servers, and speed up their performance using PowerShell Improve PowerShell's usability, and control and manage Windows-based environments by working through inviting recipes Who This Book Is For If you are a systems administrator, engineer, or an architect working with Windows Server 2016 and want to automate tasks with PowerShell, then this book is for you. A basic knowledge of PowerShell is expected. What You Will Learn Streamline routine administration processes Improve the performance and storage of your Windows server with enhanced large-scale PowerShell scripts

Use DSC to leverage Windows server features Generate automatic reports that highlight unexpected changes in your environment Monitor performance and report on system utilization using detailed graphs and analysis Create and manage a reliable and redundant Hyper-V environment Manage your enterprise's patch level Utilize multiple tools and protocols to manage your environment In Detail This book showcases several ways that Windows administrators can use to automate and streamline their job. You'll start with the PowerShell and Windows Server fundamentals, where you'll become well versed with PowerShell and Windows Server features. In the next module, Core Windows Server 2016, you'll implement Nano Server, manage Windows updates, and implement troubleshooting and server inventories. You'll then move on to the Networking module, where you'll manage Windows network services and network shares. The last module covers Azure and DSC, where you will use Azure on PowerShell and DSC to easily maintain Windows servers. Style and approach This is a practical guide packed with attractive recipes to help you effectively use PowerShell to accelerate your daily administrative tasks with Windows server.

Windows Powershell User Guide - Vega Tech 2022-10-04

Active Directory and Exchange are just two of the many processes in the Windows ecosystem that may be automated with the help of Windows PowerShell, a potent tool for simplifying configuration and automating tasks. It should come as no surprise that sysadmins and knowledgeable Windows users find it to be a useful tool. The majority of administrative operations in PowerShell are carried out using cmdlets, which are specialized.NET classes that execute a certain operation. These operate by gaining access to information in various data stores that are made accessible to PowerShell via providers, such as the file system or Windows Registry. PowerShell can have cmdlets and providers added by other developers. [6] [7] Scripts, which in turn may be bundled as modules, may use cmdlets. The.NET API and cmdlets function together. Administrators may carry out administrative operations on both local and remote Windows systems thanks to PowerShell's support for.NET Remoting, WS-Management, CIM, and SSH. Additionally, PowerShell has

a hosting API that enables the PowerShell runtime to be integrated into other programs. Then, these programs can employ PowerShell functionality to carry out certain tasks that are made available through the graphical user interface included. Microsoft Exchange Server 2007 made use of this feature to implement the graphical management tools as PowerShell hosts that call the required cmdlets, as well as to expose its administration capabilities as PowerShell cmdlets and providers. [6] [8] Through PowerShell cmdlets, the management interface of other Microsoft products, such as Microsoft SQL Server 2008, is also exposed. Among things that will be learnt in this user guide are: What is PowerShell ISE? PowerShell Uses and Features Launching PowerShell Basic Features Before Running Scripts How to Find Commands How to Run a Script Basic Script Examples Windows PowerShell Command and many others....

[MCSA 70-410 Cert Guide R2](#) - Don Poulton 2014-08-30

This is the eBook version of the print title. Note that the eBook does not provide access to the practice test software that accompanies the print book. Learn, prepare, and practice for MCSA 70-410 exam success with this Cert Guide from Pearson IT Certification, a leader in IT certification. Master MCSA 70-410 exam topics for Windows Server 2012 R2 installation and configuration Assess your knowledge with chapter-ending quizzes Review key concepts with exam preparation tasks MCSA 70-410 Cert Guide: Installing and Configuring Microsoft® Windows Server 2012R2 is a best-of-breed exam study guide. Best-selling authors and expert instructors Don Poulton and David Camardella share preparation hints and test-taking tips, helping you identify areas of weakness and improve both your conceptual knowledge and hands-on skills. Material is presented in a concise manner, focusing on increasing your understanding and retention of exam topics. The book presents you with an organized test preparation routine through the use of proven series elements and techniques. Exam topic lists make referencing easy. Chapter-ending Exam Preparation Tasks help you drill on key concepts you must know thoroughly. Review questions help you assess your knowledge, and a final preparation chapter guides you through tools and

resources to help you craft your final study plan. Well-regarded for its level of detail, assessment features, and challenging review questions and exercises, this study guide helps you master the concepts and techniques that will enable you to succeed on the exam the first time. The study guide helps you master all the topics on the MCSA 70-410 exam, including the following: Installing and configuring Windows Server 2012 Configuring Windows Server 2012 R2 local storage Configuring access to files and shares Configuring and monitoring print and document services Configuring remote management of servers Configuring Hyper-V server virtualization Creating and configuring virtual machine storage and virtual networks Configuring IPv4 and IPv6 addressing Configuring Dynamic Host Configuration Protocol (DHCP) Deploying and configuring Dynamic Host Configuration Protocol (DHCP) Deploying and configuring Domain Name System (DNS) Installing Active Directory domain controllers Creating and managing Active Directory user and computer accounts Creating and managing Active Directory Groups and Organizational Units (OUs) Creating and applying Group Policy Objects Configuring security policies, application restrictions, and Windows Firewall Don Poulton (A+, Network+, Security+, MCSA, MCSE) is an independent consultant who has worked with computers since the days of 80-column punch cards. He has consulted extensively with training providers, preparing study materials for Windows technologies. He has written or contributed to several Que titles, including Security+ Lab Manual; MCSA/MCSE 70-299 Exam Cram 2; MCTS 70-620 Exam Prep; and MCSA 70-687 Cert Guide: Configuring Microsoft Windows 8.1. David Camardella, an expert on deploying and administering Microsoft technologies, has served as technical reviewer on several previous Pearson Microsoft certification titles.

Powershell - Josh Thompsons 2017-04-28

Interested In Learning Basic Administrative Functions With Powershell? Ready To Learn How To Write Clean, Efficient Powershell Scripts? Yes! This book will let you be able to understand the thinking way of the Windows PowerShell and work with it as a servant person that will Execute your commands! PowerShell is an incredibly useful tool but

learning it will not be a 5-minute job. It will take a certain amount of hard work and no small amount of concentration and dedication. This guide gives you instructions so you can start applying yourself and learning how to use PowerShell right from the start. All terms are broken down throughout the book so you won't be overwhelmed with any technical jargon. Mastering The PowerShell Command Line Quickly And Easily This book is designed for beginners to learn PowerShell. There are some ideas to write and run scripts from the command line of the PowerShell. You can improve your PowerShell skills with the help of command line. If you want to perform PowerShell tasks, you can use this book and follow instructions given there. What you will learn inside the book: Setting Up PowerShell Learning the PowerShell Commands PowerShell Script Creation PowerShell Providers Working with Files and Folders How to Make PowerShell Work For You PowerShell Terminology No Experience With Windows Powershell Or Other Scripting Technologies Necessary 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. By the end of the book, you will have an understanding of how to use PowerShell for basic automation tasks, giving you a good grounding for increasing your knowledge to go on to bigger and better things.

Windows Powershell Pocket Reference - Lee Holmes 2008-05-27

This portable reference to Windows PowerShell summarizes both the command shell and scripting language, and provides a concise reference to the major tasks that make PowerShell so successful. It's an ideal on-the-job tool for Windows administrators who don't have time to plow through huge books or search online. Written by Microsoft PowerShell team member Lee Holmes, and excerpted from his Windows PowerShell Cookbook, Windows PowerShell Pocket Reference offers up-to-date coverage of PowerShell's 1.0 release. You'll find information on .NET classes and legacy management tools that you need to manage your system, along with chapters on how to write scripts, manage errors, format output, and much more. Beginning with a whirlwind tour of Windows PowerShell, this convenient guide covers: PowerShell language

and environment Regular expression reference PowerShell automatic variables Standard PowerShell verbs Selected .NET classes and their uses WMI reference Selected COM objects and their uses .NET string formatting .NET datetime formatting An authoritative source of information about PowerShell since its earliest betas, Lee Holmes' vast experience lets him incorporate both the "how" and the "why" into the book's discussions. His relationship with the PowerShell and administration community -- through newsgroups, mailing lists, and his informative blog Lee Holmes -- gives him insight into problems faced by administrators and PowerShell users alike. If you're ready to learn this powerful tool without having to break stride in your routine, this is the book you want.

Windows PowerShell Pocket Reference - Lee Holmes 2012-12-10

This portable reference to Windows PowerShell 3.0 summarizes the command shell and scripting language, and provides a concise reference to the many tasks that make PowerShell so useful. If you're a busy Windows administrator, and don't have time to plow through huge books or search online, this is the ideal on-the-job tool. Written by Microsoft PowerShell team member Lee Holmes, and excerpted from his Windows PowerShell Cookbook, this edition offers up-to-date coverage of PowerShell 3.0. You'll find information on the .NET classes and legacy tools you need to manage your system, along with chapters on how to write scripts, manage errors, and format output. Beginning with a guided tour of Windows PowerShell, this handy guide covers: PowerShell language and environment Regular expression reference XPath quick reference .NET string formatting .NET DateTime formatting Selected .NET classes and their uses WMI reference Selected COM objects and their uses Selected events and their uses Standard PowerShell verbs

Windows PowerShell Cookbook - Lee Holmes 2010-08-20

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.

Deploying and Managing Active Directory with Windows

PowerShell - Charlie Russel 2015-06-11

Streamline and modernize the way you manage Active Directory Use Windows PowerShell to simplify and accelerate Active Directory domain controller management, whether you're running Active Directory entirely in the cloud, on-premises, or in a hybrid environment. In this concise reference, Microsoft MVP Charlie Russel presents the commands, tested scripts, and best-practice advice you need to deploy and run Active Directory in a modern environment and to migrate smoothly to cloud or hybrid deployments wherever they offer more value. Supercharge your productivity as an Active Directory administrator Get proven scripts that leverage the power of Windows Server 2012 and Windows Management Framework 4.0 and 5.0 Deploy forests and Active Directory Domain Services (AD DS) Manage DNS and DHCP Create and manage users and groups Deploy additional domain controllers, read-only domain controllers (RODCs), and domains Implement and manage fine-grained password policies Perform fast, reliable backups and restores Quickly extend on-premises Active Directory deployments to the cloud Efficiently manage roles and sites

Azure PowerShell Quick Start Guide - Thomas Mitchell 2018-12-26

Leverage PowerShell to perform many day-to-day tasks in Microsoft Azure Key Features Deploy and manage Azure virtual machines with PowerShell commands. Get to grips with core concept of Azure PowerShell such as working with images and disks, custom script extension, high availability and more. Leverage hands-on projects to successfully apply what you learned through the course of this book. Book Description As an IT professional, it is important to keep up with cloud technologies and learn to manage those technologies. PowerShell is a critical tool that must be learned in order to effectively and more easily manage many Azure resources. This book is designed to teach you to leverage PowerShell to enable you to perform many day-to-day tasks in Microsoft Azure. Taking you through the basic tasks of installing Azure PowerShell and connecting to Azure, you will learn to properly connect to an Azure tenant with PowerShell. Next, you will dive into tasks such as deploying virtual machines with PowerShell, resizing them, and

managing their power states with PowerShell. Then, you will learn how to complete more complex Azure tasks with PowerShell, such as deploying virtual machines from custom images, creating images from existing virtual machines, and creating and managing of data disks. Later, you will learn how to snapshot virtual machines, how to encrypt virtual machines, and how to leverage load balancers to ensure high availability with PowerShell. By the end of this book, you will have developed dozens of PowerShell skills that are invaluable in the deployment and management of Azure virtual machines. What you will learn Manage virtual machines with PowerShell Resize a virtual machine with PowerShell Create OS disk snapshots via PowerShell Deploy new virtual machines from snapshots via PowerShell Provision and attach data disks to a virtual machine via PowerShell Load balance virtual machines with PowerShell Manage virtual machines with custom script extensions Who this book is for This book is intended for IT professionals who are responsible for managing Azure virtual machines. No prior PowerShell or Azure experience is needed.

PowerShell for Office 365 - Martin Machado 2017-07-26

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.

Learn PowerShell Scripting in a Month of Lunches - Don Jones
2017-11-11

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 Pester 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

Getting Started with PowerShell - Michael Shepard 2015-08-27

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.

Pro Exchange 2013 SP1 PowerShell Administration - Michel de Rooij 2014-12-19

Pro Exchange 2013 SP1 PowerShell Administration is your one-stop resource for both basic and advanced administration of Exchange Server 2013 Service Pack 1 and Exchange Online, Microsoft's best-selling hosted Exchange service. The industry shift that is currently happening toward 'the cloud' is not just about hosting your applications somewhere else. It's also driving automation and standardization of technical solutions, which in turn is leading to greater productivity. Embracing PowerShell will help you administer your existing environment more efficiently and also teach you valuable 'cloud-ready' skills as well. This book is your best-in-class companion for gaining a deep, thorough understanding of managing all facets of Exchange 2013 Service Pack 1 with PowerShell. Authors Michel de Rooij and Jaap Wesselius, both Microsoft messaging MVPs, take you through tips, tricks, and little known facts that will make your administration life simpler and more effective. Along with revealing what's new in Exchange Server 2013, this well-paced, deeply engaging tutorial provides detailed deployment guidance, for upgraders and migrators as well as for organizations entirely new to the Exchange platform. The book details how all of the major Exchange components fit together, from SMTP messages to all kinds of clients. It also provides in-depth configuration examples with an eye toward creating scalable, reliable, and secure installations.

Additionally, this guide covers the tools and techniques for monitoring an Exchange environment and troubleshooting when things go wrong. Discover how to automate time consuming management tasks, configure a Hybrid environment with an on-premises Exchange deployment, and more today with Pro Exchange 2013 SP1 PowerShell Administration. Teaches you the basics of PowerShell and provides a foundation for more advanced scripting Deploy an Office 365 tenant in hybrid mode with your existing Exchange servers Learn how to manage Exchange Online with Remote PowerShell

Active Directory with Powershell - Uma Yellapragada 2015-01-23

If you are looking to automate repetitive tasks in Active Directory management using the PowerShell module, then this book is for you. Any experience in PowerShell would be an added advantage.

Learn PowerShell Scripting in a Month of Lunches - Don Jones
2017-11-25

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 Pester 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

Windows PowerShell 3.0 Step by Step - Ed Wilson 2013-02-15

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 2.0 Best Practices - Ed Wilson 2009-12-16

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.

PowerShell for Sysadmins - Adam Bertram 2020-02-04

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 in Depth - Don Jones 2014-11-06

Summary PowerShell in Depth, Second Edition is the go-to reference for administrators working with Windows PowerShell. Every major technique, technology, and tactic is carefully explained and demonstrated, providing a hands-on guide to almost everything an admin would do in the shell. Written by three experienced authors and PowerShell MVPs, this is the PowerShell book you'll keep next to your monitor—not on your bookshelf! Purchase of the print book includes a free eBook in PDF, Kindle, and ePub formats from Manning Publications. About the Book A Windows admin using PowerShell every day may not have the time to search the net every time he or she hits a snag. Wouldn't it be great to have a team of seasoned PowerShell experts ready to answer even the toughest questions? That's what you get with this book. PowerShell in Depth, Second Edition is the go-to reference for administrators working with Windows PowerShell. Every major technique, technology, and tactic is carefully explained and demonstrated, providing a hands-on guide to almost everything an admin would do in the shell. Written by PowerShell MVPs Don Jones, Jeffrey Hicks, and Richard Siddaway, each valuable technique was developed and thoroughly tested, so you'll be able to consistently write production-quality, maintainable scripts while saving hours of time and effort. This book assumes you know the basics of PowerShell. What's Inside Automating tasks Packaging and deploying scripts Introduction to Desired State Configuration PowerShell security Covers PowerShell version 3 and later About the Authors Don Jones, Jeffery Hicks, and Richard Siddaway are Microsoft MVPs, trainers, and administrators.

Collectively, they've authored nearly three dozen books on PowerShell and Windows administration. Table of Contents PART 1 POWERSHELL FUNDAMENTALS Introduction PowerShell hosts Using the PowerShell help system The basics of PowerShell syntax Working with PSSnapins and modules Operators Working with objects The PowerShell pipeline Formatting PART 2 POWERSHELL MANAGEMENT PowerShell Remoting Background jobs and scheduling Working with credentials Regular expressions Working with HTML and XML data PSDrives and PSProviders Variables, arrays, hash tables, and script blocks PowerShell security Advanced PowerShell syntax PART 3 POWERSHELL SCRIPTING AND AUTOMATION PowerShell's scripting language Basic scripts and functions Creating objects for output Scope PowerShell workflows Advanced syntax for scripts and functions Script modules and manifest modules Custom formatting views Custom type extensions Data language and internationalization Writing help Error handling techniques Debugging tools and techniques Functions that work like cmdlets Tips and tricks for creating reports PART 4 ADVANCED POWERSHELL Working with the Component Object Model (COM) Working with .NET Framework objects Accessing databases Proxy functions Building a GUI WMI and CIM Working with the web Desired State Configuration *PowerShell and WMI* - Richard Siddaway 2012-04-29 Summary PowerShell and WMI is an example-driven guide for administrators managing networks of Windows servers and desktops. With 150 practical examples, including ready-to-reuse scripts and techniques, you'll learn the ins and outs of automating WMI via PowerShell v3. You'll also find deep coverage of all aspects of Windows administration, including IIS, DNS and Hyper-V. About the Technology WMI, on its own, is simply a collection of Windows management facilities. Paired with PowerShell, however, WMI becomes a brilliant toolset for automating servers, networks, and remote Windows computers. About the Book PowerShell and WMI is an industrial-strength guide for administrators of Windows networks, servers, and desktops. You'll start with practical overviews of PowerShell and of WMI. Then you'll explore 150 specific examples—all with ready-to-use

scripts—designed to simplify your day-to-day system management. Each tested technique is configured to load as part of a PowerShell module. A set of handy appendixes includes references for PowerShell and WMI. Prior exposure to PowerShell and WMI is helpful but not required. 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. What's Inside Managing Windows, IIS, and Hyper-V Remote desktops and devices Logs, jobs, and performance New PowerShell v3 WMI functionality ===== Table of Contents PART 1 TOOLS OF THE TRADE Solving administrative challenges Using PowerShell WMI in depth Best practices and optimization PART 2 WMI IN THE ENTERPRISE? System documentation Disk systems Registry administration Filesystem administration Services and processes Printers Configuring network adapters Managing IIS Configuring a server Users and security Logs, jobs, and performance Administering Hyper-V with PowerShell and WMI PART 3 THE FUTURE: POWERSHELL V3 AND WMI WMI over WSMAN Your own WMI cmdlets CIM cmdlets and sessions

PowerShell Deep Dives - Oisín Grehan 2013-07-25

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, Oisín 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, Oisín 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 Authors Editors Jeffery Hicks, Richard Siddaway, Oisín 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 authority database 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 advanced HTML reports with PowerShell Using and "abusing" dynamic parameters PowerShell type formatting Scalable scripting for large data sets: pipeline and 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 functions and 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 PowerShell SQL Server Management Objects WSUS and PowerShell Provisioning IIS web servers and sites with PowerShell Active Directory Group Management application

Windows PowerShell for Developers - Douglas Finke 2012-07-06

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

Learning PowerShell - Jonathan Hassell 2017-03-20

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.

PowerShell 7 for IT Professionals - Thomas Lee 2020-12-22

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.

Mastering PowerShell Scripting - Chris Dent 2021-06-29

This complete guide takes you on a tour of PowerShell from the basics to its advanced functionality, helping you automate your tedious and time-consuming system admin tasks Key FeaturesAutomate complex tasks, manipulate data, and secure your environmentWork with dual code for PowerShell 7 and Windows PowerShell to maintain compatibility with older versionsSee PowerShell in action, from learning the fundamentals to creating classes, scripts, and modulesBook Description PowerShell scripts offer a convenient way to automate various tasks, but working with them can be daunting. Mastering PowerShell Scripting takes away the fear and helps you navigate through PowerShell's capabilities.This extensively revised edition includes new chapters on debugging and troubleshooting and creating GUIs (online chapter). Learn the new features of PowerShell 7.1 by working with parameters, objects, and .NET classes from within PowerShell 7.1. This comprehensive guide starts with the basics before moving on to advanced topics, including asynchronous processing, desired state configuration, using more complex scripts and filters, debugging issues, and error-handling techniques. Explore how to efficiently manage substantial amounts of data and interact with other services using PowerShell 7.1. This book will help you to make the most of PowerShell's automation features, using different methods to parse data, manipulate regular expressions, and work with Windows Management Instrumentation (WMI). What you will learnOptimize code with functions, switches, and looping structuresTest and debug your scripts as well as raising and catching errorsWork with objects and operators to test and manipulate dataParse and manipulate different data typesUse jobs, runspaces, and runspace pools to run code asynchronouslyWrite .NET classes with ease within PowerShellCreate and implement regular expressions in PowerShell scriptsMake use of advanced techniques to define and restrict the behavior of parametersWho this book is for This book is for system administrators who want to automate and speed up their processes using PowerShell and Windows PowerShell. You'll need to know the basics of operating systems, but beginners with no prior experience with PowerShell will have no trouble following along.

Windows PowerShell 2 For Dummies - Steve Seguis 2009-08-10

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.

Windows PowerShell Cookbook - Lee Holmes 2010-08-13

Do you know how to use Windows PowerShell to navigate the filesystem and manage files and folders? Or how to retrieve a web page? This introduction to the PowerShell language and scripting environment provides more than 430 task-oriented recipes to help you solve the most complex and pressing problems, and includes more than 100 tried-and-tested scripts that intermediate to advanced system administrators can copy and use immediately. You'll find hands-on tutorials on fundamentals, common tasks, and administrative jobs that you can apply whether you're on a 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. With Windows PowerShell

Cookbook, you'll get more done in less time. Take a tour of PowerShell's core features, including the command model, object-based pipeline, and ubiquitous scripting Learn PowerShell fundamentals such as the interactive shell and fundamental 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, the filesystem, registry, event logs, processes, and services

PowerShell for Beginners - Chase Clarke 2020-03-09

WHAT IS POWERSHELL? Windows PowerShell is an item situated robotization motor and scripting language. It is primarily aimed at system administrators. It causes IT experts, to control and mechanize the administration of the Windows operating system and other applications. While many casual users know about the Command Prompt, only a few have heard about Windows PowerShell. PowerShell is a much more powerful tool than the Command Prompt. It is also intended to replace the Command Prompt, as it delivers more power and control over the Windows operating system. Windows PowerShell is a shell initially developed by Microsoft for the purposes of task automation and configuration management. PowerShell is now an open source project, and it can be installed on Windows, macOS, and Linux platforms. This shell is based on the .NET framework, and it includes a command-line shell and a scripting language. POWERSHELL FOR BEGINNERS contains chapters on... HISTORY OF POWERSHELL LEARNING POWERSHELL FROM THE START WHAT IS POWERSHELL ISE THE DIFFERENCE BETWEEN POWERSHELL AND CMD POWERSHELL PROVIDERS AND MODULES WHAT MAKES A POWERSHELL OBJECT? ENTRANCE TO THE CONSTRUCTION SITE UNDERSTANDING OF POWERSHELL FOREACH LOOP AND FOREACH-OBJECT WINDOWS POWERSHELL PROVIDERS. Who is this book for? Windows PowerShell is an incredibly powerful tool that is included in Windows, and that is available for many other operating systems. It brings many benefits to power-users and IT professionals. However, casual users can benefit from using it too. The knowledge and skills that you gain from this book

can allow you to grasp the basics of windows Powershell scripting. Powershell For Beginners is extensively researched and documented and will prove extremely effective at preparing you to begin an exciting new career as a computer systems administrator or even to improve the day to day running of the pc's on your home network... What are you waiting for? Take Action TODAY! Grab your copy of POWERSHELL FOR BEGINNERS NOW...

PowerShell in Practice - Richard Siddaway 2010-06-07

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.

Windows PowerShell Cookbook - Lee Holmes 2013-01-15

A guide to using Windows PowerShell to script Windows administrative tasks and control Windows from the command line includes more than four hundred task-oriented recipes and more than one hundred scripts.

PowerShell in Depth - Don Jones 2014-10-31

Summary PowerShell in Depth, Second Edition is the go-to reference for administrators working with Windows PowerShell. Every major technique, technology, and tactic is carefully explained and demonstrated, providing a hands-on guide to almost everything an admin would do in the shell. Written by three experienced authors and PowerShell MVPs, this is the PowerShell book you'll keep next to your monitor—not on your bookshelf! Purchase of the print book includes a free eBook in PDF, Kindle, and ePub formats from Manning Publications.

About the Book A Windows admin using PowerShell every day may not have the time to search the net every time he or she hits a snag. Wouldn't it be great to have a team of seasoned PowerShell experts ready to answer even the toughest questions? That's what you get with this book. PowerShell in Depth, Second Edition is the go-to reference for administrators working with Windows PowerShell. Every major technique, technology, and tactic is carefully explained and demonstrated, providing a hands-on guide to almost everything an admin would do in the shell. Written by PowerShell MVPs Don Jones, Jeffrey Hicks, and Richard Siddaway, each valuable technique was developed and thoroughly tested, so you'll be able to consistently write production-quality, maintainable scripts while saving hours of time and effort. This book assumes you know the basics of PowerShell. What's Inside Automating tasks Packaging and deploying scripts Introduction to Desired State Configuration PowerShell security Covers PowerShell version 3 and later About the Authors Don Jones, Jeffery Hicks, and Richard Siddaway are Microsoft MVPs, trainers, and administrators. Collectively, they've authored nearly three dozen books on PowerShell and Windows administration. Table of Contents PART 1 POWERSHELL FUNDAMENTALS Introduction PowerShell hosts Using the PowerShell help system The basics of PowerShell syntax Working with PSSnapins and modules Operators Working with objects The PowerShell pipeline Formatting PART 2 POWERSHELL MANAGEMENT PowerShell Remoting Background jobs and scheduling Working with credentials Regular expressions Working with HTML and XML data PSDrives and PSProviders Variables, arrays, hash tables, and script blocks PowerShell security Advanced PowerShell syntax PART 3 POWERSHELL SCRIPTING AND AUTOMATION PowerShell's scripting language Basic scripts and functions Creating objects for output Scope PowerShell workflows Advanced syntax for scripts and functions Script modules and manifest modules Custom formatting views Custom type extensions Data language and internationalization Writing help Error handling techniques Debugging tools and techniques Functions that work like cmdlets Tips and tricks for creating reports PART 4 ADVANCED POWERSHELL

Working with the Component Object Model (COM) Working with .NET Framework objects Accessing databases Proxy functions Building a GUI WMI and CIM Working with the web Desired State Configuration

Windows PowerShell - Don Jones 2006

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)

Windows Powershell and Scripting Made Easy For Sysadmins - Craig Berg 2021-01-18

Are you a system administrator, consultant, or power user who wants to expand their expertise in automating and controlling the windows environment? And are you looking for a comprehensive guide that will help you become a pro at your own convenience and pace even if you've never set foot into a software development class? If you answered YES to these questions, this book is for you so keep on reading... You Are About To Master How To Unlock The Advanced Functionalities Of Windows Powershell Scripting To Help You Automate Different Tasks In The Windows Environment! Windows PowerShell is a very powerful tool that most people do not yet know of as it is still fairly new. It offers a handy way to automate the windows environment. However, working with this function can be difficult if you do not have the necessary knowledge of going about it. This book bridges that gap as it provides you with all the knowledge you need to help you automate common administrative jobs and tasks. By virtue that you are here, it is clear that you are eager to get started and you are probably wondering... What is Windows PowerShell and what exactly does it do? How do I install PowerShell on my computer? Can Windows PowerShell be installed on other operating systems apart from Windows? What are the main PowerShell commands that I should know of? How do I get started with scripting using PowerShell? If you have these and other related questions about getting started with Windows PowerShell, keep reading, as this book has everything you need to get you started, even if you do not consider yourself tech-savvy. More precisely, you will find: What PowerShell is

and how to install it on different operating systems Different PowerShell commands and what they do The core concepts of scripting using PowerShell How to use conditional statements and PowerShell loops How to combine scripting and commands And much more... Even if you are a complete beginner, this comprehensive guide is perfect for you as it will help you learn PowerShell fast. It is structured in a way that allows readers to understand the concepts using real-world situations as opposed to a textbook format. You'll be scripting like a pro in no time. Don't wait... Scroll up and click Buy Now With 1-Click or Buy Now to get started!

Beginning PowerShell for SharePoint 2016 - Nikolas Charlebois-Laprade 2017-05-24

Use the latest tools to manage and automate tasks on Microsoft's SharePoint platform. You will achieve time and cost savings, increase reliability of deployments, and learn how to safely and efficiently migrate from a previous version, all while gaining valuable skills in PowerShell scripting. Authors Nik Charlebois-Laprade and John Edward Naguib begin by explaining the fundamental concepts behind the PowerShell language. Then, with copious real-world examples and scripts, they introduce PowerShell operations in the context of deploying, migrating, managing, and monitoring SharePoint 2016. What You'll Learn What's New in this Edition? Learn about the new SharePoint 2016 capabilities and min role Extend the default set of available PowerShell cmdlets for SharePoint 2016 by creating your own reusable Cmdlet functions with PowerShell 5.0 Upgrade your on-premises SharePoint 2013 environment to SharePoint 2016 using PowerShell Who This Book Is For Administrators, developers, and DevOps engineers working with SharePoint 2016. No experience with PowerShell is required.

Windows PowerShell for .NET Developers - Chendrayan Venkatesan 2015-10-27

Efficiently administer and maintain your development environment with Windows PowerShell About This Book Explore scripting and automation techniques with Windows PowerShell Gain concrete knowledge 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 real-world scripting examples 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 for you. This self-start 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 building PowerShell scripts 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 and C# 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 to administrate 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 the 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, it also includes real-world 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, explores the significant features of 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 a good understanding of 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 text-enabled screenshots. 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.

PowerShell for Beginners - Ian Waters 2021-06-24

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.