

Microsoft Windows Powershell Step By Step Ed Wilson

Microsoft Windows Powershell Windows PowerShell Step by Step, Third Edition Windows PowerShell Scripting Guide Microsoft Azure Essentials Azure Automation Windows PowerShell 2 For Dummies Microsoft Windows Scripting with WMI Windows PowerShell 5 in 24 Hours, Sams Teach Yourself PowerShell 3.0 Advanced Administration Handbook PowerShell for Sysadmins Windows PowerShell Best Practices Programming for the Absolute Beginner Microsoft Windows PowerShell Step by Step Microsoft Windows PowerShell Programming for the Absolute Beginner Powershell Core 6.2 Cookbook Automating Microsoft Windows Server 2008 R2 with Windows PowerShell 2.0 Microsoft VBScript Step by Step Microsoft Exchange Server PowerShell Essentials Learn PowerShell Core 6.0 Pro PowerShell Desired State Configuration Step Up & Into Windows PowerShell 4.0 Windows PowerShell Step by Step Windows PowerShell Pocket Reference Windows Powershell Pocket Reference Windows PowerShell 3.0 First Steps Windows Server 2019 Automation with PowerShell Cookbook Mastering Windows PowerShell Scripting Introducing Windows Server 2012 R2 Learn Windows PowerShell 3 in a Month of Lunches Windows PowerShell 2.0 Best Practices Windows PowerShell Cookbook Windows PowerShell in Action PowerShell for Office 365 Windows PowerShell 3.0 Step by Step Deploying and Managing Active Directory with Windows PowerShell Learn PowerShell Toolmaking in a Month of Lunches PowerShell and Python Together Mastering Windows PowerShell Scripting Windows Server 2016 Automation with PowerShell Cookbook Automating Microsoft Azure with PowerShell Microsoft Windows PowerShell 3.0 First Look

Microsoft Windows Powershell

With PowerShell, you can automate tasks with scripts without having to learn the complicated ins and outs of programming. After you familiarise yourself with PowerShell's intuitive syntax, you'll apply your knowledge by designing and developing scripts for lots of daily situations IT personnel find themselves in every day. You'll then end with learning how to build a large project to automate server deployments from scratch written completely in PowerShell. Unlock the possibilities with PowerShell!

Windows PowerShell Step by Step, Third Edition

Learn the art of leveraging PowerShell to automate Office 365 repetitive tasks About This Book Master the fundamentals of PowerShell to automate Office 365 tasks. Easily administer scenarios such as user management, reporting, cloud services, and many more. A fast-paced guide that leverages PowerShell commands to increase your productivity. Who This Book Is For The book is aimed at sys admins who are administering office 365 tasks and looking forward to automate the manual

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

Windows PowerShell Scripting Guide

Teaches you how to program through the development of computer games. In these pages, you'll discover everything you need to know to begin developing your own scripts. You'll develop a new game that reinforces a newly learned concept in each chapter. No prior experience or programming knowledge is required. Topics covered include the basic steps involved in interacting with the PowerShell command prompt and in creating and executing PowerShell scripts, object-based scripting and PowerShell's relationship with the .NET Framework, the way to implement conditional logic and set up loops to automate repetitive tasks and process large collections of data, how to improve the overall organization of your PowerShell scripts using functions, and advanced topics such as tracking down and debugging errors and using PowerShell to interact with Windows Management Instrumentation. The third edition of this book is a PowerShell scripting primer for either PowerShell 3.0 or PowerShell 4.0 --

Microsoft Azure Essentials Azure Automation

Go beyond simple queries and get the inside track on how to write system administration scripts with Windows Management Instrumentation (WMI)—straight from a Microsoft scripting expert. With labs and lessons you complete at your own pace, this definitive tutorial helps you build your scripting expertise and provides the professional guidance you need to automate Windows administrative tasks. Teach yourself how to write and run scripts to: Configure WMI—without editing the registry Audit and inventory software on local or remote desktops and servers Manage system components, including keyboards, motherboards, disk drives, and printers Monitor and report on real-time changes in system performance and respond to critical events Configure network components Test security access rights and make changes to one or multiple systems And learn how to: Test, diagnose, and resolve errors with WMI Back-up and restore the registry PLUS—Get more than 900 script samples that you can use to help simply the management of your system resources CD-ROM features: More than 900 sample scripts to adapt for your own work Time-saving scripting tools—including Script-o-Matic 2.0 and WMIcheck Fully searchable eBook A Note Regarding the CD or DVD The print version of this book ships with a CD or DVD. For those customers purchasing one of the digital formats in which this book is available, we are pleased to offer the CD/DVD content as a free download via O'Reilly Media's Digital Distribution services. To download this content, please visit O'Reilly's web site, search for the title of this book to find its catalog page, and click on the link below the cover image (Examples, Companion Content, or Practice Files). Note that while we provide as much of the media content as we are able via free download, we are sometimes limited by licensing restrictions. Please direct any questions or concerns to booktech@oreilly.com.

Windows PowerShell 2 For Dummies

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

Microsoft Windows Scripting with WMI

Presents a guide on how to use Windows PowerShell to build administrative tools.

Windows PowerShell 5 in 24 Hours, Sams Teach Yourself

Get guidance from a well-known scripting expert—and teach yourself the fundamentals of Microsoft Visual Basic Scripting Edition (VBScript). This tutorial delivers hands-on, self-paced learning labs to help you get started automating Microsoft

Windows administration—one step at a time. Discover how to: Manage folders and files with a single script Configure network components with Windows Management Instrumentation Administer users and groups using subroutines and Active Directory Service Interfaces (ADSI) Design logon scripts to configure and maintain user environments Monitor and manage network printers Back up and edit the registry—avoiding common pitfalls Handle errors and troubleshoot scripts Simplify administration for Microsoft Exchange Server 2003 and Internet Information Services 6.0 Includes a CD featuring: All practice exercises 100+ sample scripts to adapt for your own work For customers who purchase an ebook version of this title, instructions for downloading the CD files can be found in the ebook.

PowerShell 3.0 Advanced Administration Handbook

This book is designed to help administrators and developers better automate Azure management tasks. No prior knowledge of PowerShell is required.

PowerShell for Sysadmins

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 Best Practices

Provides information on writing and running scripts using Windows PowerShell to automate and manage Windows Server 2008 and Windows Vista.

Programming for the Absolute Beginner

Want to learn computer programming but aren't sure where to start? Programming for the Absolute Beginner provides a gentle learning curve in programming for anyone who wants to develop fundamental programming skills and create computer programs. The prima

Microsoft Windows PowerShell Step by Step

Enhance your skills in expert module development, deployment, security, DevOps, and cloud Key Features A step-by-step guide to get you started with PowerShell Core 6.0 Harness the capabilities of PowerShell Core 6.0 to perform simple to complex administration tasks Learn core administrative concepts such as scripting, pipelines, and DSC Book Description Beginning with an overview of the different versions of PowerShell, Learn PowerShell Core 6.0 introduces you to VSCode and then dives into helping you understand the basic techniques in PowerShell scripting. You will cover advanced coding techniques, learn how to write reusable code as well as store and load data with PowerShell. This book will help you understand PowerShell security and Just Enough Administration, enabling you to create your own PowerShell repository. The last set of chapters will guide you in setting up, configuring, and working with Release Pipelines in VSCode and VSTS, and help you understand PowerShell DSC. In addition to this, you will learn how to use PowerShell with Windows, Azure, Microsoft Online Services, SCCM, and SQL Server. The final chapter will provide you with some use cases and pro tips. By the end of this book, you will be able to create professional reusable code using security insight and knowledge of working with PowerShell Core 6.0 and its most important capabilities. What you will learn Get to grips with Powershell Core 6.0 Explore basic and advanced PowerShell scripting techniques Get to grips with Windows PowerShell Security Work with centralization and DevOps with PowerShell Implement PowerShell in your organization through real-life examples Learn to create GUIs and use DSC in production Who this book is for If you are a Windows administrator or a DevOps user who wants to leverage PowerShell to automate simple to complex tasks, then this book is for you. Whether you know nothing about PowerShell or just enough to get by, this guide will give you what you need to go to take your scripting to the next level. You'll also find this book useful if you're a PowerShell expert looking to expand your knowledge in areas such as PowerShell Security and DevOps.

Microsoft Windows PowerShell Programming for the Absolute Beginner

"Portable help for PowerShell scripters"--Cover.

Powershell Core 6.2 Cookbook

Automate Windows server tasks with the powerful features of the PowerShell Language Key Features Leverage PowerShell to automate complex Windows server tasks Master new features such as DevOps, and containers, and speed up their performance using PowerShell Improve PowerShell's usability, and control and manage Windows-based environments by working through exciting recipes Book Description Windows Server 2019 represents the latest version of Microsoft's flagship server operating system. It also comes with PowerShell Version 5.1 and has a number of additional features that IT

pros find useful. The book helps the reader learn how to use PowerShell and manage core roles, features, and services of Windows Server 2019. You will begin with creating a PowerShell Administrative Environment that has updated versions of PowerShell and the Windows Management Framework, updated versions of the .NET Framework, and third-party modules. Next, you will learn to use PowerShell to set up and configure Windows Server 2019 networking and also managing objects in the AD environment. You will also learn to set up a host to utilize containers and how to deploy containers. You will also be implementing different mechanisms for achieving desired state configuration along with getting well versed with Azure infrastructure and how to setup Virtual Machines, web sites, and shared files on Azure. Finally, you will be using some powerful tools you can use to diagnose and resolve issues with Windows Server 2019. By the end of the book, you will learn a lot of trips and tricks to automate your windows environment with PowerShell What you will learn Perform key admin tasks on Windows Server 2019 Employing best practices for writing PowerShell scripts and configuring Windows Server 2019 Use the .NET Framework to achieve administrative scripting Set up VMs, websites, and shared files on Azure Report system performance using built-in cmdlets and WMI to obtain single measurements Know the tools you can use to diagnose and resolve issues with Windows Server Who this book is for If you are a systems administrator, engineer, or an architect working with Windows Server 2016 interested in upgrading to Windows Server 2019 and automating tasks with PowerShell, then this book is for you. A basic knowledge of PowerShell is expected.

Automating Microsoft Windows Server 2008 R2 with Windows PowerShell 2.0

A quick, succinct guide to the new and exciting features in PowerShell 3.0

Microsoft VBScript Step by Step

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

Microsoft Exchange Server PowerShell Essentials

Use Windows PowerShell Desired State Configuration (DSC) to configure your infrastructure on-premises and in the cloud. In an environment where changes and deployments are happening all the time, DSC makes the necessary adjustments to the system so you don't have to. Pro PowerShell Desired State Configuration shows you how. PowerShell Desired State Configuration (DSC) is a powerful configuration management platform that makes it easier than ever to perform configuration management of your infrastructure, whether on-premises or in the cloud. With Pro PowerShell Desired State Configuration, Ravikanth Chaganti revises and significantly expands his previous edition, bringing you a complete in-depth reference for applying this evolving technology in your day-to-day work. What's new in this edition? Get up-to-date, in-depth guidance on DSC in the data center Understand the central role that DSC plays in DevOps today Integrate DSC into build and release management tools Learn to think and act like a developer when automating your configuration management, creating a testable, robust process that you can use again and again Find out why and how DSC has an important role to play in public and private cloud deployments Apply DSC in the cloud with Microsoft Azure or Amazon Web Services or Google Cloud Platform Who This Book Is For IT administrators, developers and DevOps engineers working in Windows-based data center environments. With a little prior PowerShell scripting experience, this book can be used as an in-depth reference to creating, customizing, and extending DSC in Windows. IT administrators with limited scripting experience will also find this book a useful overview of what DSC offers and how to use DSC resources to automate configuration management and deployment.

Learn PowerShell Core 6.0

This book is a collection of selected real-world scenarios, detailed solutions, and screenshots. If you are a system administrator who wants to automate repeated daily tasks and perform complex administration requirements in a timely manner with less effort, then this is the book for you. In order to get the maximum benefit of this book you need to have some basic scripting knowledge and good administration experience.

Pro PowerShell Desired State Configuration

Microsoft Azure Essentials from Microsoft Press is a series of free ebooks designed to help you advance your technical skills with Microsoft Azure. The second ebook in the series, Microsoft Azure Essentials: Azure Automation, introduces a fairly new feature of Microsoft Azure called Azure Automation. Using a highly scalable workflow execution environment, Azure Automation allows you to orchestrate frequent deployment and life cycle management tasks using runbooks based on Windows PowerShell Workflow functionality. These runbooks are stored in and backed up by Azure. By automating

runbooks, you can greatly minimize the occurrence of errors when carrying out repeated tasks and process automation. Watch Microsoft Press's blog and Twitter (@MicrosoftPress) to learn about other free ebooks in the Microsoft Azure Essentials series.

Step Up & Into Windows PowerShell 4.0

The practical, hands-on guide to Windows PowerShell from the premiere author in Windows administration and Microsoft technologies! Windows PowerShell 3.0 and Windows PowerShell 4.0 are enhanced and extended editions of the original implementations of PowerShell. The changes are dramatic, and they improve both the performance capabilities of PowerShell and its versatility. You can do things with PowerShell 3.0 and PowerShell 4.0 that you simply could not do with earlier versions, and you can perform standard tasks in much more efficient ways than before. Step Up & Into Windows PowerShell 4.0 is written for anyone who is already familiar with Windows PowerShell and wants to learn the new and changed features of Windows PowerShell 3.0 and Windows PowerShell 4.0. Not only does this book zero in on what's new and changed, it provides the necessary context for you to understand how the new features and changes affect the way you use Windows PowerShell.

Windows PowerShell Step by Step

As the author of three books on Windows scripting and as a consultant for Microsoft, I am in constant contact with people who have been using VBScript to manage their environments. I am often asked, "Is there an easier way to do this?" Until now, the answer has been, "Unfortunately, no." That has all changed! With the release of Microsoft Exchange Server 2007, there is a new scripting language on the market—Windows PowerShell. This book seeks to unravel the mysteries of and misconceptions about this powerful and elegant scripting language. Windows PowerShell was released with Microsoft Exchange Server 2007. It is also a release to the Web product and can be downloaded and installed on Windows Server 2019 SP3, Windows XP SP2, and Windows 10. Many Microsoft customers currently running those versions of the operating system will consider installing Windows PowerShell because of its ease of use. The Microsoft Exchange Server 2019 administrator tools are built on Windows PowerShell, so Exchange administrators will be among the first to explore and use PowerShell, but other network administrators can certainly also benefit from PowerShell. Accessing Security objects, working with the registry, and leveraging the power of the .NET Framework all have been either difficult or impossible to do from a VBScript. Windows PowerShell makes these tasks much simpler. Microsoft Windows PowerShell Step by Step equips readers with the tools to automate setup, deployment, and management of Windows machines. In addition, it provides readers with an understanding of commandlets (or, in this guide, cmdlets). This should lead readers into an awareness of the basics of programming through modeling of fundamental techniques. The approach I take to teaching readers how to

use Windows PowerShell to automate their Windows servers and workstations is similar to the approach I used in my previous three VBScript books. The reader will learn by using the language. In addition, concepts are presented-not in a dry, academic fashion, but in a dynamic and living manner. When a concept is needed to accomplish something, then it is presented. If a topic is not useful for automating network management, then it is not brought forward.

Windows PowerShell Pocket Reference

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

Windows Powershell Pocket Reference

Leverage the power of basic Windows PowerShell scripts to manage your Exchange messaging environment About This Book Get to grips with Windows PowerShell and how it can be used to manage various aspects of the operating system and applications Become proficient in PowerShell and apply it to manage Exchange infrastructure on-premise or via Exchange Online as part of Office 365 Learn to create Windows PowerShell scripts to do administrative tasks with this step-by-step, easy-to-follow guide Who This Book Is For This book is for administrators with a basic or limited understanding of Windows PowerShell and who want to increase their skill set in managing both the Exchange On Premise and Online environments. What You Will Learn Deep dive into the Windows PowerShell basics Create and manage Recipients and permissions Manage Distribution Group members, permissions, and group types Understand Certificates and Role-Based Access Control using real-world examples Review the usage of email address, address book, and retention policies with examples Learn to manage Exchange Client Access and Mailbox Server roles Use PowerShell for auditing and risk management in your Exchange organization Manage a highly available Exchange environment using PowerShell Interact with Exchange through the use of the Exchange Web Services-managed API In Detail PowerShell has become one of the most important skills in an Exchange administrator's armory. PowerShell has proved its mettle so widely that, if you're not already starting to learn PowerShell, then you're falling behind the industry. It isn't difficult to learn PowerShell at all. In fact, if you've ever run

commands from a CMD prompt, then you'll be able to start using PowerShell straightaway. This book will walk you through the essentials of PowerShell in Microsoft Exchange Server and make sure you understand its nitty gritty effectively. You will first walk through the core concepts of PowerShell and their applications. This book discusses ways to automate tasks and activities that are performed by Exchange administrators and that otherwise take a lot of manual effort. Microsoft Exchange PowerShell Essentials will provide all the required details for Active Directory, System, and Exchange administrators to help them understand Windows PowerShell and build the required scripts to manage the Exchange Infrastructure. Style and approach This book is written with its target audience in mind; concepts are explained and followed by real-life examples. A comprehensive script is provided in each chapter to give you hands-on practice with all the major commands used in it.

Windows PowerShell 3.0 First Steps

Grasp advanced PowerShell Core 6.0 functionalities to automate your environment Key Features Keep up with changes introduced in PowerShell Core 6.0 Easily maintain appropriate compatibility with older versions Automate complex tasks, manipulate data, and secure your environment with PowerShell Core 6.0 Book Description PowerShell scripts offer a handy way to automate various chores, however working effectively with these scripts can be a difficult task. This comprehensive guide starts with the fundamentals before moving on to advanced-level topics to help you become a PowerShell Core 6.0 expert. The first module, PowerShell Core 6.0 Fundamentals, begins with the new features of PowerShell Core 6.0, installing it on Linux, and working with parameters, objects and .NET classes from within PowerShell Core 6.0. As you make your way through the chapters, you'll see how to efficiently manage large amounts of data and interact with other services using PowerShell Core 6.0. You'll be able to make the most of PowerShell Core 6.0's powerful automation feature, where you will have different methods available to parse data and manipulate regular expressions and Windows Management Instrumentation (WMI). After having explored automation, you will enter the extending PowerShell Core 6.0 module, covering asynchronous processing and desired state configuration. In the last module, you will learn to extend PowerShell Core 6.0 using advanced scripts and filters, and also debug issues along with working on error handling techniques. By the end of this book, you will be an expert in scripting with PowerShell Core 6.0. What you will learn Optimize code through the use of functions, switches, and looping structures Work with objects and operators to test and manipulate data Parse and manipulate different data types Create scripts and functions using PowerShell Use jobs, events, and popular public modules which assist with implementing multithreading Write .NET classes with ease within the PowerShell Create and implement regular expressions in PowerShell scripts Make use of advanced techniques to define and restrict the behavior of parameters Who this book is for If you are a system administrator who wants to become an expert in controlling and automating your Windows environment, then Mastering Windows PowerShell Scripting is for you. It is also ideal for those new to the PowerShell language.

Windows Server 2019 Automation with PowerShell Cookbook

Make use of hands-on recipes for many tasks that are typically encountered in both the on-premises as well as the cloud world. Key Features A recipe-based guide to help you build effective administrative solutions Gain hands-on experience with the newly added features of PowerShell Core Manage critical business environments with professional scripting practices Book Description This book will follow a recipe-based approach and start off with an introduction to the fundamentals of PowerShell, and explaining how to install and run it through simple examples. Next, you will learn how to use PowerShell to access and manipulate data and how to work with different streams as well. You will also explore the object model which will help with regard to PowerShell function deployment. Going forward, you will get familiar with the pipeline in its different use cases. The next set of chapters will deal with the different ways of accessing data in PowerShell. You will also learn to automate various tasks in Windows and Linux using PowerShell Core, as well as explore Windows Server. Later, you will be introduced to Remoting in PowerShell Core and Just Enough Administration concept. The last set of chapters will help you understand the management of a private and public cloud with PowerShell Core. You will also learn how to access web services and explore the high-performance scripting methods. By the end of this book, you will gain the skills to manage complex tasks effectively along with increasing the performance of your environment. What you will learn Leverage cross-platform interaction with systems Make use of the PowerShell recipes for frequent tasks Get a better understanding of the inner workings of PowerShell Understand the compatibility of built-in Windows modules with PowerShell Core Learn best practices associated with PowerShell scripting Avoid common pitfalls and mistakes Who this book is for This book will be for windows administrators who want to enhance their PowerShell scripting skills to the next level. System administrators wanting to automate common to complex tasks with PowerShell scripts would benefit from this book. Prior understanding on PowerShell would be necessary.

Mastering Windows PowerShell Scripting

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.

Introducing Windows Server 2012 R2

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.

Learn Windows PowerShell 3 in a Month of Lunches

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 2.0 Best Practices

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.

Windows PowerShell Cookbook

This is today's definitive hands-on guide to automating Windows setup, deployment, and management with Windows PowerShell. Microsoft senior consultant Ed Wilson ("The Scripting Guy") fully illuminates every key PowerShell technique -- especially the major improvements and new cmdlets introduced with PowerShell 5.0. Wilson's positive and humorous approach has made him one of the world's most popular PowerShell instructors. His practical examples and insights will help you maximize productivity and quality in all your IT operations, and integrate automated workflows throughout any traditional or cloud environment. Windows PowerShell Step by Step, Third Edition offers more labs and structured learning exercises than any other PowerShell 5.0 tutorial. Wilson guides you step-by-step through building every script he demonstrates. He reinforces key concepts with step-by-step exercises, including "One Step Further" exercises that deepen your understanding, so you can solve your unique problems. All examples and starter files are downloadable at the TechNet Script Center Script Repository. Coverage includes: Basic PowerShell concepts and cmdlets Key providers: Alias, Certificate, Environment, File System, Function, Registry, Variable, and WSMAN Remoting, jobs, scripts, functions, and modules Windows PowerShell ISE and snippets Creating, organizing, and running PowerShell profiles WMI: objects, namespaces, providers, classes, and queries Remoting WMI and calling WMI methods via CIM Automating Active Directory and AD Domain Services Debugging scripts and handling errors Defining complex workflows Using Desired State Configuration (DSC) to quickly enforce or restore configuration settings Finding and using the PowerShell Gallery's powerful new resources Each chapter concludes with a convenient quick reference, and Wilson presents detailed appendices on coding conventions and regular expressions. If you're upgrading from any earlier version of PowerShell, a new "Start Here" section identifies the most valuable PowerShell features you haven't already learned, so you can focus your efforts where they'll make you most productive.

Windows PowerShell in Action

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

PowerShell for Office 365

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.

Windows PowerShell 3.0 Step by Step

Get started with this powerful Windows administration tool Automate Windows administration tasks with ease by learning the fundamentals of Windows PowerShell 3.0. Led by a Windows PowerShell expert, you'll learn must-know concepts and techniques through easy-to-follow explanations, examples, and exercises. Once you complete this practical introduction, you can go deeper into the Windows PowerShell command line interface and scripting language with Windows PowerShell 3.0 Step by Step. Discover how to: Create effective Windows PowerShell commands with one line of code Apply Windows PowerShell commands across several Windows platforms Identify missing hotfixes and service packs with a single command Sort, group, and filter data using the Windows PowerShell pipeline Create users, groups, and organizational units in Active Directory Add computers to a domain or workgroup with a single line of code Run Windows PowerShell commands on multiple remote computers Unleash the power of scripting with Windows Management Instrumentation (WMI)

Deploying and Managing Active Directory with Windows PowerShell

In just 24 lessons of one hour or less, Sams Teach Yourself Windows PowerShell in 24 Hours helps you streamline all facets of Windows administration, supercharging your effectiveness as an IT professional or power user. This book's straightforward, step-by-step approach shows you how to build and run scripts, extend Windows PowerShell reach, manage computers remotely, and automate a wide variety of tasks on any modern Windows server or client. Every lesson builds on what you've already learned, giving you a rock-solid foundation for real-world success! Step-by-step instructions carefully walk you through the most common PowerShell scripting tasks. Practical, hands-on examples show you how to apply what you learn. Quizzes and exercises help you test your knowledge and stretch your skills. Notes, tips, and cautions point out shortcuts, pitfalls, and solutions. Learn how to Install, configure, and explore Windows PowerShell (including updates for PowerShell 5) Leverage .NET's remarkable power and scope with easy-to-use cmdlets Build new scripts with the console, ISE visual tools, and other popular hosts Apply best practices for writing more reliable, flexible, team-friendly scripts Work effectively with the pipeline, objects, and data Extend Windows PowerShell reach via providers, drives, and output Run external tools like ping, ipconfig, and tracert from within PowerShell Remotely manage computers with basic and advanced remoting (WinRM), WMI, and Regex Configure Windows devices across the web with PSWA Sort, filter, measure, format,

export, and convert script output Run Windows PowerShell flexibly, using background and scheduled jobs Customize your environment with profile scripts, alternate credentials, thirdparty tools, and packages Strengthen your control over Windows systems and services with Desired State Configuration Administer key tasks on SQL Server, SharePoint, and other Windows servers Master PowerShell skills needed to earn many Microsoft certifications

Learn PowerShell Toolmaking in a Month of Lunches

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.

PowerShell and Python Together

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.

Mastering Windows PowerShell Scripting

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

Bring together the Python programming language and Microsoft's PowerShell to address digital investigations and create state-of-the-art solutions for administrators, IT personnel, cyber response teams, and forensic investigators. You will learn how to join PowerShell's robust set of commands and access to the internals of both the MS Windows desktop and enterprise devices and Python's rich scripting environment allowing for the rapid development of new tools for investigation, automation, and deep analysis. PowerShell and Python Together takes a practical approach that provides an entry point and level playing field for a wide range of individuals, small companies, researchers, academics, students, and hobbyists to participate. What You'll Learn Leverage the internals of PowerShell for: digital investigation, incident response, and forensics Leverage Python to exploit already existing PowerShell CmdLets and aliases to build new automation and analysis capabilities Create combined PowerShell and Python applications that provide: rapid response capabilities to cybersecurity events, assistance in the precipitous collection of critical evidence (from the desktop and enterprise), and the ability to analyze, reason about, and respond to events and evidence collected across the enterprise Who This Book Is For System administrators, IT personnel, incident response teams, forensic investigators, professors teaching in undergraduate and graduate programs in cybersecurity, students in cybersecurity and computer science programs, and software developers and engineers developing new cybersecurity defenses

Automating Microsoft Azure with PowerShell

Learn to automate the top server operating system, Windows Server 2008 R2 Windows PowerShell 2.0 allows you to automate nearly any task for managing Windows Server, going from dozens of clicks to a single command, and repeated tasks to automated tasks. Using screen shots and helpful exercises, this book walks you through the many benefits of automating Windows Server with PowerShell 2.0, such as allowing for scalable, flexible, and rapid deployments and changes; increasing cost effectiveness; providing a timely return on IT investment; lowering labor headcount; creating secure computing environments; and establishing reliable enterprise infrastructures. In addition, real-world examples

provide reinforced learning, aimed at ensuring that you work as efficiently and effectively as possible by automating both simple and complex administrative tasks with Powershell 2.0. Explains how to automate both simple and complex tasks in Windows Server 2008 R2 with Powershell 2.0 Addresses how Windows Server 2008 R2 comes with more than 550 cmdlets, allowing you to automate nearly anything Offers numerous real-world examples, end-of-chapter exercises, and helpful screen shots to reinforce your learning process The power is in your hands! Start working smarter, not harder, by automating Windows Server 2008 R2 tasks with Powershell 2.0.

Microsoft Windows PowerShell 3.0 First Look

NOTE: This title is also available as a free eBook on the Microsoft Download Center. It is offered for sale in print format as a convenience. Get a head start evaluating Windows Server 2012 R2 - with technical insights from a Microsoft MVP and members of the Windows Server product team. Based on final Windows Server 2012 R2 release-to-manufacturing (RTM) software, this guide introduces new features and capabilities, with scenario-based advice on how the platform can meet the needs of your business. Get the high-level overview you need to begin preparing your deployment now. Coverage includes: Server virtualization and cloud solutions Availability and scalability Provisioning and storage management Security features, access, and data protection Infrastructure options Server management and automation

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