

Microsoft Windows Powershell Step By Step Ed Wilson

Windows PowerShell, formerly known by its codename "Monad" and available now for Windows Server 2003, Windows XP, and Windows Vista, and soon for Exchange Server 2007 and MOM, is the future of Windows administration. From setting up automated build environments to managing 20,000 Exchange email clients in an organization, any tool that reduces the number of repetitive steps an administrator must perform, is a real win. Even better, PowerShell part of a major Microsoft initiative that aims to replace a host of Windows management tools with a single, unified shell. This is the promise of PowerShell and the reason IT professionals need to start learning how to use it today. Reflecting the best of legacy tools such as bash and the Korn shell, PowerShell also breaks new ground in its command language design and its use of the object-oriented .NET Framework. And there is no better way to learn how to put PowerShell to work than to get your hands on Monad, O'Reilly's innovative, hands-on introduction to the tool. This concise 200-page book is an exciting tour of some of the new capabilities

thatPowerShell puts into the hands of system administrators and power users, and is the perfect complement to existing PowerShell documentation. With more than 40 hands-on activities, the book covers every angle, from using PowerShell commands and its object-oriented pipelines to querying systems, generating reports and writing scripts that automate existing tasks. Adding to the lure is the fact that the book is written by Microsoft manager, Andy Oakley with a Foreword by PowerShell architect Jeffrey Snover-so you can be certain that it's teeming with inside information. Monad lets you see for yourself how PowerShell can significantly improve your productivity. Because the PowerShell technology has wide appeal, so, too, does this compact guide. Developers, administrators, and power users alike can all benefit from its insight. If you're someone who habitually drifts toward the c-m-d keys, knows all of the switches to most command tools, or spends time authoring batch files to solve new challenges, this book is right up your alley. And if your organization plans to upgrade soon to Exchange 2007 or MOM V3, there's no time to waste. Breaking News: A PowerShell RC1 Update to the book is now available at no charge from the book's

catalog page on oreilly.com!

In-depth and comprehensive, this official RESOURCE KIT delivers the information you need to administer Windows 7 in the enterprise. You get authoritative technical guidance from those who know the technology best—Microsoft Most Valuable Professionals (MVPs) and the Windows 7 Team—along with hundreds of scripts and other essential resources on CD. Get expert guidance on how to: Apply best practices for using Microsoft Deployment Toolk Plan user-state migration; test application compatibility; manage update Manage Group Policy Objects using Windows PowerShell Administer Windows Firewall and Windows BitLocker Implement Ipsec, IPv6, wireless, and VPN connectivity Install and configure printers, devices, and services Manage disks, file systems, storage, and data security Administer search and indexing with Group Policy Diagnose and resolve startup, hardware, and networking issue CD FEATURES: Nearly 200 Windows PowerShell scripts created specifically for this book—customize to administer your environment Windows 7 Resource Kit PowerShell Pack—700 cmdlets and functions to extend Windows in-box functionality Links

to author Web sites Sample chapters from Microsoft Press books Fully searchable eBook For customers who purchase an ebook version of this title, instructions for downloading the CD files can be found in the ebook.

Get expert guidance on how to use scripting to automate Windows system administration--straight from the Microsoft scripting experts. This title features hands-on, self-paced learning exercises, timesaving tips, and sample scripts to help readers get more done in less time.

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

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

Windows Powershell Pocket Reference

Windows PowerShell Scripting Guide

Windows PowerShell in 24 Hours, Sams Teach Yourself

Windows Powershell In Action

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

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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.

"Portable help for PowerShell scripters"--Cover. PowerShell can save you a lot of time on Windows admin tasks -- but to use it effectively, you need to understand how it works. PowerShell is a command-line tool designed by Microsoft to run commands and scripts to change settings and automate tasks. In a way, it's similar to Command Prompt. However, PowerShell is a more capable command-line interface (CLI) that offers an extensive set of tools and more flexibility and control. Are you just getting started with PowerShell? Use this guide to create and run your first script file on Windows. There are a lot of different parts that come with the PowerShell

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language, and learning how to work with it can be a lot easier than you may think. Some of the topics that we are going to explore in this guidebook concerning PowerShell and all it can offer include: What is PowerShell How to get started with the commands How the pipelines work in this language. The different wildcards and operators that you can work with within PowerShell. The drives and the providers. How to work with the strings and the quotes. How to execute some of the commands that you need in PowerShell. How to format your data, handle objects, and create tables. How to work with PowerShell Remoting The beauty of multitasking in PowerShell. There are a lot of benefits to using PowerShell for some of your coding needs, and learning how to use this coding language for your needs, make sure to check out this guidebook to learn how to get started. Now if you are really serious about Powershell then Scroll Up and Click the Buy Now Button!

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

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covers the broad range of topics a system administrator needs to know to run Windows Server 2019, including how to install, configure, and secure a system. This book includes coverage of: Installing & Setting Up Windows Server Configuring Windows Server 2019 Administering Windows Server 2019 Configuring Networking Managing Security Working with Windows PowerShell Installing and Administering Hyper-V Installing, Configuring, and Using Containers If you're a budding or experienced system administrator looking to build or expand your knowledge of Windows Server, this book has you covered.

Microsoft Windows Scripting Self-paced Learning Guide

Step-by-step Guides For Beginners, Learn To Script Windows Powershell: How To Open Windows Powershell

Deploying and Managing Active Directory with Windows PowerShell

Tools for cloud-based and hybrid environments Getting Started with PowerShell

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

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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

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

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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

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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.

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

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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. 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

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WSMAN Your own WMI cmdlets CIM cmdlets and sessions

PowerShell: Automating Administrative Tasks

Windows PowerShell Step by Step, Third Edition

Windows PowerShell Cookbook

Windows PowerShell Pocket Reference

PowerShell 7 for IT Professionals

PowerShell gives Windows administrators immense power to automate and customize virtually any administrative task—saving time, increasing productivity, and giving you unprecedented flexibility. PowerShell 2.0 adds important new features that offer even greater control over Windows environments. Windows PowerShell Unleashed will not only give you deep mastery over PowerShell but also a greater understanding of the features being introduced in PowerShell 2.0—and show you how to use it to solve challenges in your production environment. The authors begin by systematically illuminating PowerShell's core concepts and techniques, helping you leverage whatever Windows scripting experience you may already have. Next, using complete, easy-to-adapt examples, they show how to use PowerShell to manage file systems, permissions, the Registry, WMI objects, Active Directory, Exchange Server, and many other elements of the Windows environment. More than half of this edition's material and examples have been completely

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rewritten for PowerShell 2.0, and the authors have added seven entirely new chapters—covering security, PowerShell application development, Systems Center Operations Manager 2007, and much more. Whatever Windows systems you manage, Windows PowerShell Unleashed contains the scripts and techniques you need to manage them far more effectively. Install, configure, and customize PowerShell 2.0 and master its command-line interface Discover proven best practices for PowerShell scripting Make the most of PowerShell cmdlets—especially the new cmdlets included in PowerShell 2.0 Leverage PowerShell's deep .NET Framework integration Secure your scripts using code signing, execution policies, and PowerShell's built-in security Use custom script functions to manage permissions more efficiently Control the registry locally and remotely and use PowerShell's powerful new registry transactions Use PowerShell as a management interface Automate Exchange Server 2007 administrative tasks Automate the management of Microsoft's new System Center Operations Manager 2007 Preview the forthcoming Graphical PowerShell scripting environment Understand how to manage Active Directory using PowerShell Master using PowerShell with WMI Learn PowerShell 2.0 remoting 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

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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,

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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

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

Efficiently administer and maintain your development environment with Windows PowerShell About This Book Explore scripting and automation techniques with Windows PowerShell 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

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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 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 and WMI

Windows Server 2016 Automation with PowerShell Cookbook

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Microsoft System Center Designing Orchestrator Runbooks

Learn Windows PowerShell 3 in a Month of Lunches

The Complete Guide to Scripting Microsoft's New Command Shell

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

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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.

Part of a series of specialized guides on System Center - this book delivers a focused drilldown into designing runbooks for Orchestrator workflow management solutions. Series editor Mitch Tulloch and a team of System Center experts provide concise technical guidance as they step you through key design concepts, criteria, and tasks.

Windows PowerShell in Action was written by Bruce Payette, one of the founding members of the Windows PowerShell team, co-designer of the PowerShell language and the principal author of the PowerShell language implementation. This book is a tutorial for sysadmins and developers introducing the PowerShell language and its environment. It shows you how to build scripts and utilities to automate system tasks or create powerful system management tools to handle the day-to-day tasks that drive a Windows administrator's life. It's rich in interesting examples that will spark your imagination. The book covers batch scripting and string processing, COM, WMI, and even .NET and WinForms programming. · Welcome to PowerShell · The basics · Working with types · Operators and expressions · Advanced operators and variables · Flow control in scripts · Functions and scripts · Scriptblocks and objects · Errors, exceptions, and script

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debugging · Processing text, files, and XML · Getting fancy-.NET and WinForms · Windows objects: COM and WMI · Security, security, security

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

Windows PowerShell for .NET Developers

Microsoft System Center Introduction to Microsoft Automation Solutions

Microsoft VBScript Step by Step

Windows 7 Resource Kit

Powershell Scripting Tutorials

Provides information on writing and running scripts using Windows

PowerShell to automate and manage Windows Server 2008 and Windows Vista.

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

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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

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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 Step by Step
Microsoft® Windows™ PowerShell is a helpful scripting technology that enables the automation of system management tasks and the creation of system management tools. PowerShell runs on Windows XP, 2003, 2008, and Vista. Unlike traditional Windows shell scripting, PowerShell scripting is object-based and is designed to work with the .NET Framework. This completely updated edition of Microsoft Windows PowerShell Programming for the Absolute Beginner teaches aspiring programmers Windows PowerShell scripting whether they're using Windows

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PowerShell 1.0 or 2.0. To help make learning fun and interesting, you will learn how to program through the development of computer games, and you will develop a new game that reinforces a newly learned concept in each chapter. It's the easiest way to learn! By the time you have finished the book, not only will you have access to a collection of working sample scripts, you also will have laid a foundation upon which you can begin to tackle real-world challenges and new languages.

Windows PowerShell Unleashed

Learn Powershell Core 6.0

Introducing the MSH Command Shell and Language

Microsoft Windows Powershell Step By Step

Windows PowerShell Self-Study Training Kit

Would you like to understand PowerShell functionalities so you can automate your environment? Then keep reading! The reason Microsoft PowerShell is such a revelation in today's industry is that it's both a scripting language and an administrative shell that give you the power to automate and control nearly every aspect of Windows. PowerShell can accept and execute commands interactively and

you can write your own scripts to manage most Windows servers like IIS, Exchange, and SharePoint, while also being able to interact with online services like Azure and Office 365. This step-by-step guide is your essential introduction to every aspect and capability of PowerShell, and your guide to being able to automate and streamline every process you use in Windows. This is the guide you need in order to learn, to instruct your team, and to revolutionize the way your whole system runs. In this book, you will find: -Steps and key information on how to execute every process and feature in PowerShell -Fundamental information anyone can understand, regardless of their experience level -Steps on how to optimize your code through the use of functions, switches, and looping structures -How to utilize .NET within the PowerShell -So much more! Don't delay in moving your team over to the optimization powerhouse that is PowerShell. Get your copy today and completely change the way your team operates. Data manipulation, scripting, and maintenance has never been more streamlined than it is with Microsoft PowerShell, so this technology is vital to any team that wishes to optimize. Buy your copy today and overhaul your team's production!

Summary Discover how scripting is different from command-line PowerShell, as you explore concrete hands-on examples in this handy guide. The book includes and expands on many of the techniques presented in Learn

PowerShell Toolmaking in a Month of Lunches. Purchase of the print book includes a free eBook in PDF, Kindle, and ePub formats from Manning Publications. About the Technology Automate it! With Microsoft's PowerShell language, you can write scripts to control nearly every aspect of Windows. Just master a few straightforward scripting skills, and you'll be able to eliminate repetitive manual tasks, create custom reusable tools, and build effective pipelines and workflows. Once you start scripting in PowerShell, you'll be amazed at how many opportunities you'll find to save time and effort. About the Book Learn PowerShell Scripting in a Month of Lunches teaches you how to expand your command-line PowerShell skills into effective scripts and tools. In 27 bite-size lessons, you'll discover instantly useful techniques for writing efficient code, finding and squashing bugs, organizing your scripts into libraries, and much more. Advanced scripters will even learn to access the .NET Framework, store data long term, and create nice user interfaces. What's Inside Designing functions and scripts Effective pipeline usage Dealing with errors and bugs Professional-grade scripting practices About the Reader Written for devs and IT pros comfortable with PowerShell and Windows. About the Authors Don Jones is a PowerShell MVP, speaker, and trainer who has written dozens of books on information technology topics. Jeffery Hicks is a PowerShell MVP and an independent consultant, trainer, and author.

Don and Jeff coauthored Manning's Learn Windows PowerShell in a Month of Lunches, Learn PowerShell Toolmaking in a Month of Lunches, and PowerShell in Depth. Table of Contents

PART 1 - INTRODUCTION TO SCRIPTING Before you begin Setting up your scripting environment **WWPD: what would PowerShell do? Review: parameter binding and the PowerShell pipeline Scripting language crash course** The many forms of scripting (and which to use) **Scripts and security**

PART 2 - BUILDING A POWERSHELL SCRIPT Always design first **Avoiding bugs: start with a command Building a basic function and script module Going advanced with your function Objects: the best kind of output Using all the pipelines Simple help: making a comment Dealing with errors Filling out a manifest**

PART 3 - GROWN-UP SCRIPTING Changing your brain when it comes to scripting **Professional-grade scripting An introduction to source control with git Pestering your script Signing your script Publishing your script**

PART 4 - ADVANCED TECHNIQUES Squashing bugs **Making script output prettier Wrapping up the .NET Framework Storing data-not in Excel! Never the end**

Learn PowerShell from the inside out, right from basic scripting all the way to becoming a master at automating, managing, and maintaining your Windows environment About This Book Use proven best practices to optimize code and automate redundant tasks Get to grips with PowerShell's advanced functions and

effectively administer your system Create a variety of PowerShell scripts to automate your environment Who This Book Is For If you are a system administrator who wants to become an expert in automating and managing your Windows environment, then this course is for you. Some basic understanding of PowerShell would be helpful. What You Will Learn Discover PowerShell commands and cmdlets and understand PowerShell formatting Solve common problems using basic file input/output functions Use .NET classes in Windows PowerShell and C# and manage Exchange Online Use PowerShell in C# to manage Exchange Online and work with .NET classes in PowerShell Automate LYNC clients, consuming client-side object models to administrate SharePoint Online Optimize code through the use of functions, switches, and looping structures Manage files, folders, and registries through the use of PowerShell Discover best practices to manage Microsoft systems In Detail Are you tired of managing Windows administrative tasks manually and are looking to automate the entire process? If yes, then this is the right course for you. This learning path starts your PowerShell journey and will help you automate the administration of the Windows operating system and applications that run on Windows. It will get you up and running with PowerShell, taking you from the basics of installation to writing scripts and performing web server automation. You will explore the PowerShell environment and

discover how to use cmdlets, functions, and scripts to automate Windows systems. The next installment of the course focuses on gaining concrete knowledge of Windows PowerShell scripting to perform professional-level scripting. The techniques here are packed with PowerShell scripts and sample C# code to automate tasks. You will use .NET classes in PowerShell and C# to manage Exchange Online. In the final section, you will delve into real-world examples to learn how to simplify the management of your Windows environment. You will get to grips with PowerShell's advanced functions and how to most effectively administer your system. This Learning Path combines some of the best that Packt has to offer in one complete, curated package. It includes content from the following Packt products: Getting Started with PowerShell by Michael Shepard Windows PowerShell for .Net Developers Second Edition by Chendrayan Venkatesan and Sherif Talaat Mastering Windows PowerShell Scripting by Brenton J.W. Blawat Style and approach This is a step-by-step course to help you effectively administer and maintain your development environment with PowerShell.

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.

Windows 10 Inside Out (includes Current Book Service)

Windows PowerShell 3.0 First Steps

Windows PowerShell 5 in 24 Hours, Sams Teach Yourself

Step By Step with MS Exchange: : 2020: :

Windows PowerShell Best Practices

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.

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 This is today's definitive hands-on guide to

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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

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*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.*

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

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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.

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Powershell Step-by-Step Windows Server 2019 Automation with PowerShell Cookbook

Microsoft Windows Powershell 2.0 Programming for the Absolute Beginner Windows PowerShell Step by Step

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

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technologies necessary.

135,000 words... 2 Full-length Personal Training Guides in 1 Convenient Kit! Designed for anyone who wants to learn Windows PowerShell. Inside, you'll find comprehensive overviews, step-by-step procedures, frequently used tasks, documented examples, and much more. One of the goals is to keep the content so concise that the training kit remains compact and easy to navigate while at the same time ensuring that this training kit is packed with as much information as possible--making it a valuable resource. After reading this training kit, you'll have a better understanding of using Windows PowerShell to work with and manage Windows. Techniques for working at the prompt and using scripts are covered extensively. Take control of Windows and Windows Server today using PowerShell! Includes the full contents of: Windows PowerShell: The Personal Trainer Windows PowerShell for Administration: The Personal Trainer Windows PowerShell Self-Study Training Kit starts by teaching you how to: Streamline daily tasks using cmdlets Initialize the scripting environment Format output and use output streams Extend Windows PowerShell Use sessions and remoting Execute remote commands and schedule jobs Manage computers using scripts Validate PowerShell requirements while scripting Use conditional statements to control script execution Use control loops to execute commands repeatedly Record PowerShell sessions using transcripts Manage blocks of commands More, more, more Then Windows PowerShell Self-Study Training Kit shows you how to: Manage system configuration Gather system information Inventory and evaluate computers Work with files, directories and drives Configure security permissions and

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auditing Configure event logging Write custom events Manage configuration of system services Create and use restore points Manage computer accounts and join computers to domains Manage running processes and services Monitor system performance Resolve performance issues More, more, more 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)

This book provides you with an introduction to the Microsoft automation solutions: Azure Automation and Service Management Automation. Throughout the chapters, the text explores these tools and how they can be used to meet the automation needs of your Microsoft Azure cloud solutions or your enterprise datacenter environments. We provide considerations on the features of each solution, and how they

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can be architected to fit your needs. Next, the text explores the interfaces you will use to interact with the solutions, including the web-based portals, Windows PowerShell command-line interaction, and programmatic access via the web services. The text then covers how you implement and manage automation using runbooks, assets, and Integration Modules, along with how you can use a source control system to manage runbook content. Finally, some examples of automation scenarios are discussed, providing you with samples that can be used to speed development in your own solution.

Learn PowerShell Scripting in a Month of Lunches

PowerShell in Practice

Microsoft Windows Powershell

Monad (AKA PowerShell)

Scripts to Automate Windows Processes, Streamline

Production, Overhaul Interface with Azure and 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

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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

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,

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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,

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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. This is the eBook of the printed book and may not include any media, website access codes, or print supplements that may come packaged with the bound book. Conquer today's Windows 10—from the inside out! Dive into Windows 10—and really put your Windows expertise to work. Focusing on the most powerful and innovative features of Windows 10, this supremely organized reference packs hundreds of timesaving solutions, tips, and workarounds—all fully reflecting the major Windows 10 Anniversary Update. From new Cortana and Microsoft Edge enhancements to the latest security and virtualization features, you'll discover how experts tackle today's essential tasks—and challenge yourself to new levels of mastery. Install, configure, and personalize the newest versions of Windows 10 Understand Microsoft's revamped activation and upgrade processes Discover major Microsoft Edge enhancements, including new support for extensions Use today's improved Cortana services to perform tasks, set reminders, and retrieve information Make the most of the improved ink, voice, touch, and gesture support in Windows 10 Help secure Windows 10 in business with Windows Hello and Azure AD Deploy, use, and manage new Universal Windows Platform

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(UWP) apps Take advantage of new entertainment options, including Groove Music Pass subscriptions and connections to your Xbox One console Manage files in the cloud with Microsoft OneDrive and OneDrive for Business Use the improved Windows 10 Mail and Calendar apps and the new Skype app Fine-tune performance and troubleshoot crashes Master high-efficiency tools for managing Windows 10 in the enterprise Leverage advanced Hyper-V features, including Secure Boot, TPMs, nested virtualization, and containers In addition, this book is part of the Current Book Service from Microsoft Press. Books in this program will receive periodic updates to address significant software changes for 12 to 18 months following the original publication date via a free Web Edition. Learn more at <https://www.microsoftpressstore.com/cbs>. 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

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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.

Microsoft Windows PowerShell Step by Step Powerful ways to automate and manage Windows administrative tasks, 3rd Edition