

# Powershell The Ultimate Windows Powershell Beginners Guide Learn Powershell Scripting In A Day Powershell Scripting Guide Windows Powershell 5 Learn Javascript Command Line C Sql

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Windows PowerShell Cookbook Lee Holmes 2010-08-20 With more than 250 ready-to-use recipes, this solutions-oriented introduction to the Windows PowerShell scripting environment and language provides administrators with the tools to be productive immediately.

Windows Server 2019 & PowerShell All-in-One For Dummies Sara Perrott 2019-04-11 Your one-stop reference for Windows Server 2019 and PowerShell know-how Windows Server 2019 & PowerShell All-in-One For Dummies offers a single reference to help you build and expand your knowledge of all things Windows Server, including the all-important PowerShell framework. Written by an information security pro and professor who trains aspiring system administrators, this book covers the broad range of topics a system administrator needs to know to run Windows Server 2019, including how to install, configure, and secure a system. This book includes coverage of: Installing & Setting Up Windows Server Configuring Windows Server 2019 Administering Windows Server 2019 Configuring Networking Managing Security Working with Windows PowerShell Installing and Administering Hyper-V Installing, Configuring, and Using Containers If you're a budding or experienced system administrator looking to build or expand your knowledge of Windows Server, this book has you covered.

Windows PowerShell 3.0 First Steps Ed Wilson 2013-07-15 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)

Hacking & Tor Jack Jones 2017-04-27 Would You Like to Learn Exactly What It Means to be a Hacker & How To Protect Your Identity On The Web? - NOW INCLUDES FREE GIFTS! (see below for details) Have you always secretly admired how tech savvy hackers are? Does the word "hacker" make you think of the cool kids who don't obey society's rules? Or does the idea of someone hacking your system and stealing your data make you break out into a cold sweat? Do you want to understand how hacking works for once and for all? Have you been drawn to the dark side of the web? Do you long for the days when anonymity on the web was the norm rather than the exception? Do you want to experience the web away from all prying eyes and experience real online freedom? Do you want to learn to play safely in the deep web? If the answer to any of these questions is yes, this book will provide you with the answers you've been looking for! In this book we'll delve into the worlds of both Hacking and using Tor to stay anonymous. It might come as a surprise to you is that hacking does not need to mean having mad computer skills. You need to know some basics, naturally, but hacking a computer system is a lot simpler than you might think. And there are a lot of software and tools out there that can help you grow from a hacking novice to a hacking expert in a very short period of time. When it comes to Tor, the deep web, it's one of the last true bastions of freedom on the internet. It is the place that few search engines dare to tread. It is exciting and has a true air of mystery about it. But it's also a place that not too many people know how to access. Now I'm going to let you in on a secret - you can keep your anonymity on the web. You don't have to know how to run elaborate software to delete all your tracks. All you need is a simple program. It's free, it's super-simple to install and run and you can use it today. TOR will do it all for you - it acts as an intermediary so that you don't have to divulge your personal information when you are online. And then it routes your online activity through a number of different secure nodes making it really difficult to track. Could it really be that simple? Despite what you see in the movies, yes it can. But you do need to know the rules. You need to know how the system works and how to get it to work for you. This book is going to show you how to do that. You will learn how to make your first forays into the deep web. And hold your horses, it will be a fun ride. The deep web is totally different from your normal internet. You need to know how to get it to give up its secrets. But, once you do, you will have a blast. In this book, we will look at: How Hacking Works Hacking Networks and Computer Systems Information Gathering Using the Data You Gathered Password Cracking for Beginners Applications to Gain Entry to Systems Wireless Hacking Staying Anonymous on the Deep Web What the TOR network is Whether or not TOR is the answer for you How to get started with TOR quickly and safely How to stay completely anonymous with TOR How to surf the dark web safely What you can expect to find on the dark web ...and much more! Also included for a limited time only are 2 FREE GIFTS, including a full length, surprise FREE BOOK! Take the first step towards becoming an expert hacker while maintaining complete online anonymity today. Click the buy now button above for instant access. Also included are 2 FREE GIFTS! - A sample from one of my other bestselling books, and a full length, FREE BOOK included with your purchase!

PowerShell in Practice Richard Siddaway 2010-06-07 Windows PowerShell is a scripting language that simplifies Windows system administration. PowerShell in Practice is a hands-on reference for administrators wanting to learn and use PowerShell. Following the "In Practice" style, individual related techniques are clustered into chapters. Each technique is presented in the form: problem, solution, discussion, and includes annotated code listings. Written to answer the question "How can PowerShell make my job as an administrator easier?" this book concentrates on practical tasks and automation. Starting with an brief tutorial and review, the majority of the book focuses on two major PowerShell usage areas: People - user accounts, mailboxes, desktop configuration; and Servers - Active Directory, Exchange, IIS, and more. Purchase of the print book comes with an offer of a free PDF, ePub, and Kindle eBook from Manning. Also available is all code from the book.

Windows PowerShell Pocket Reference Lee Holmes 2012-12-10 This portable reference to Windows PowerShell 3.0 summarizes the command shell and scripting language, and provides a concise reference to the many tasks that make PowerShell so useful. If you're a busy Windows administrator, and don't have time to plow through huge books or search online, this is the ideal on-the-job tool. Written by Microsoft PowerShell team member Lee Holmes, and excerpted from his Windows PowerShell Cookbook, this edition offers up-to-date coverage of PowerShell 3.0. You'll find information on the .NET classes and legacy tools you need to manage your system, along with chapters on how to write scripts, manage errors, and format output. Beginning with a guided tour of Windows PowerShell, this handy guide covers: PowerShell language and environment Regular expression reference XPath quick reference .NET string formatting, .NET Date/Time formatting Selected .NET classes and their uses WMI reference Selected COM objects and their uses Selected events and their uses Standard PowerShell verbs

Windows PowerShell Step by Step Ed Wilson 2015-10-27 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.

Powershell Jack Jones 2017-06-14 Would You Like To Learn Exactly How You Can Do Even More With PowerShell? - NOW INCLUDES FREE GIFTS! (see below for details) Have you had a taste of the basics of PowerShell that just whet your appetite? Do you want to advance to the next level with PowerShell? Do you want to learn how to get more useful results from PowerShell? Do you want to show your computer who is boss? If the answer to any of these questions is yes, this book will provide you with the answers you've been looking for! PowerShell is a fascinating system. It is not so difficult to operate once you know the basics but sometimes you just need a little helping hand. After all, there is so much to learn, it can be tough to know how to continue once you have mastered the basics. Fortunately, you can progress quite easily - this book is designed to help you master the next level of PowerShell. PowerShell is a very orderly system. The key to getting things right is in knowing how to speak the language. And PowerShell can be something of a grammar Nazi, especially when it comes to using the right punctuation. Leave off a single quotation mark and your program won't work as you want it to. PowerShell is a powerful tool but it can be open to malicious attack. You need to know how to protect your computer from scripts designed to cause mayhem and mischief. In this book we will look at: How to make sense of the results that you get and how to filter out the results that you are not interested in. You will learn how to get your computer to do all the work for you so that you only get the results that you want. PowerShell can generate a lot of data, sometimes a lot more than what you actually need. We look at how you can multitask with PowerShell and how to run longer programs in the background, freeing your system up for other tasks. You will learn how to create jobs and what commands can be very useful when it comes to controlling them.ii> You will learn how to you can overcome a near-fatal flaw in PowerShell's security and how use it safely and securely. You'll learn how to protect your shell from malicious hackers. We will look at the Windows Management Instrumentation and introduce you to what it actually does. We will discuss whether or not you actually need to use it and what alternatives there are out there. We will get down to the nuts and bolts of how to use variables to get more of what you want from PowerShell. We also look at writing your own functions and making them into reusable tools. We look at creating your very own cmdlets and tailoring them to your needs.ii> We look at why your scripts aren't running as well as they should and how you can go about fixing them. We then go through how you can prevent errors from cropping up in the first place - this is as close to perfection as you are going to get with PowerShell. You also learn how to deal with errors that you cannot prevent, such as network errors and how to get PowerShell to do what you want despite these errors. We look at how you can start to customize your PowerShell experience to suit you and how you can get more out of it. We also run through a quick cheat sheet of the different punctuation marks and how to use them. ...and much more! Also included for a limited time only are 2 FREE GIFTS, including a full length, surprise FREE BOOK! Take the first step towards mastering PowerShell today. Click the buy now button above for instant access. Also included are 2 FREE GIFTS! - A sample from one of my other best-selling books, and a full length, FREE BOOK included with your purchase!

Windows PowerShell Jason Helmick 2014-09-01

Microsoft System Center PowerShell Essentials Guruprasad HP 2015-04-28 If you are a Microsoft System Center administrator who manages System Center environments and utilizes the console for management, then this book is ideal for you. This book is also for System Center users who now want to learn to manage systems using PowerShell.

Windows PowerShell Scripting Guide Ed Wilson 2008-01-01 Provides information on writing and running scripts using Windows PowerShell to automate and manage Windows Server 2008 and Windows Vista.

Windows Powershell and Scripting Made Easy For Sysadmins Craig Berg 2021-01-18 Are you a system administrator, consultant, or power user who wants to expand their expertise in automating and controlling the windows environment? And are you looking for a comprehensive guide that will help you become a pro at your own convenience and pace even if you've never set foot into a software development class? If you answered YES to these questions, this book is for you so keep on reading... You Are About To Master How To Unlock The Advanced Functionalities Of Windows Powershell Scripting To Help You Automate Different Tasks In The Windows Environment! Windows PowerShell is a very powerful tool that most people do not yet know of as it is still fairly new. It offers a handy way to automate the windows environment. However, working with this function can be difficult if you do not have the necessary knowledge of going about it. This book bridges that gap as it provides you with all the knowledge you need to help you automate common administrative jobs and tasks. By virtue that you are here, it is clear that you are eager to get started and you are probably wondering... What is Windows PowerShell and what exactly does it do? How do I install PowerShell on my computer? Can Windows PowerShell be installed on other operating systems apart from Windows? What are the main PowerShell commands that I should know of? How do I get started with scripting using PowerShell? If you have these and other related questions about getting started with Windows PowerShell, keep reading, as this book has everything you need to get you started, even if you do not consider yourself tech-savvy. More precisely, you will find: What PowerShell is and how to install it on different operating systems Different PowerShell commands and what they do The core concepts of scripting using PowerShell How to use conditional statements and PowerShell loops How to combine scripting and commands And much more... Even if you are a complete beginner, this comprehensive guide is perfect for you as it will help you learn PowerShell fast. It is structured in a way that allows readers to understand the concepts using real-world situations as opposed to a textbook format. You'll be scripting like a pro in no time. Don't wait... Scroll up and click Buy Now With 1-Click or Buy Now to get started!

PowerShell for Sysadmins Adam Bertram 2020-02-04 Learn to use PowerShell, Microsoft's scripting language, to automate real-world tasks that IT professionals and system administrators deal with every day. Save Time. Automate. PowerShell® is both a scripting language and an administrative shell that lets you control and automate nearly every aspect of IT. In PowerShell for Sysadmins, five-time Microsoft MVP "Adam the Automator" Bertram shows you how to use PowerShell to manage and automate your desktop and server environments so that you can head out for an early lunch. You'll learn how to: Combine commands, control flow, handle errors, write scripts, run scripts remotely, and test scripts with the PowerShell testing framework, Pester Parse structured data like XML and JSON, work with common domains (like Active Directory, Azure, and Amazon Web Services), and create a real-world server inventory script Design and build a PowerShell module to demonstrate PowerShell isn't just about ad-hoc scripts Use PowerShell to create a hands-off, completely automated Windows deployment Build an entire Active Directory forest from nothing but a Hyper-V host and a few ISO files Create endless Web and SQL servers with just a few lines of code! Real-world examples throughout help bridge the gap between theory and actual system, and the author's anecdotes keep things lively. Stop with the expensive software and fancy consultants. Learn how to manage your own environment with PowerShell for Sysadmins and make everyone happy. Covers Windows PowerShell v5.1

Learn Powershell Core 6.0 David Das Neves 2018-07-26 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.

Mastering Windows PowerShell Scripting Chris Dent 2019-02-28 Grasp advanced PowerShell Core 6.0 functionalities to automate your environment Key FeaturesKeep 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.

PowerShell for Beginners Ian Waters 2021-06-24 Learn the basic tools and commands to write scripts in PowerShell 7. This hands-on guide is designed to get you up and running on PowerShell quickly - introducing interactive menus, reading and writing files, and creating code that talks over the network to other scripts, with mini games to facilitate learning. PowerShell for Beginners starts with an introduction to PowerShell and its components. It further discusses the various tools and commands required for writing scripts in PowerShell 7, with learning reinforced by writing mini games. You will learn how to use variables and conditional statements for writing scripts followed by loops and arrays. You will then work with functions and classes in PowerShell. Moving forward, you will go through the PowerShell Console, customizing the title and text colors. Along the way you will see how to read a key press and make sound in PowerShell. The final sections cover game engine layout, how to build a title screen, and implementing the game design using code flow, title screens, levels, and much more. After reading the book you will be able to begin working with PowerShell 7 scripts and understand how to use its tools and commands effectively. What You Will Learn Use Microsoft Visual Studio Code to develop scripts Understand variables, loops and conditional statements in PowerShell Work with scripts to develop a game Discover and use ASCII art generators Comprehend game objects and code Create client-server scripts that communicate over a network Read and write to files Capture input from the keyboard Make PowerShell speak words to help the visually impaired Create text-based adventure games Who This Book Is For Software developers who want to start working with PowerShell scripts.

Windows PowerShell for Developers Douglas Finke 2012-07-06 Want to perform programming tasks better, faster, simpler, and make them repeatable? Take a deep dive into Windows PowerShell and discover what this distributed automation platform can do. Whether you're a .NET developer or IT pro, this concise guide will show you how PowerShell's scripting language can help you be more productive on everyday tasks. Quickly learn how to create PowerShell scripts and embed them into your existing applications, write "little languages" to solve specific problems, and take charge of your code. This book includes example scripts that you can easily pull apart, tweak, and then use in your own PowerShell and .NET solutions. Slice and dice text, XML, CSV, and JSON with ease Embed PowerShell to provide scripting capabilities for your C# apps Create GUI applications five to ten times faster with less code Leverage PowerShell's capabilities to work with the Internet Text with DLLs and create objects, automatically display properties, and call methods in live interactive sessions Build domain-specific languages (DSLs) and vocabularies to express solutions more clearly Work with Microsoft Office via the Component Object Model (COM) Discover PowerShell v3 features included with Windows 8 and Windows Server 2012

PowerShell Jack Jones 2017-10-26 Would You Like To Learn Exactly What PowerShell Is And How You Can Make It Work For You? - NOW INCLUDES FREE GIFTS! (see below for details) Do you want to access and control of an amazing hidden system on your computer? Do you like to understand how your computer runs its systems? Do you want to start tweaking the settings on your computer but you're not sure how? Do you want to make your computer more efficient? Are you tired of only having access to the most basic systems? Do you want to take a peek under the hood of your computer system and actually understand what it is that you are looking at? Do you want to learn how to get more useful results from PowerShell? If the answer to any of these questions is yes, this book will provide you with the answers you've been looking for! In this book we will look at: The basics of using PowerShell, what the key concepts are, how things work and a little background into the program and its development. You'll learn enough to get you up and running with PowerShell today, without all the unnecessary fluff and technobabble that you don't need to know. (We do show you how to find this if you want to. How to enable scripting so that your scripts can run and how to write killer scripts that increase efficiency and save you time and effort. Learn what providers are - here's a hint, it's not your ISP! Learn how to organize your work within the engine more effectively - after all, is anything you save worth a thing if you cannot find it again? Learn the PowerShell lingo so you can impress your friends and sound really smart. How to make sense of the results that you get and how to filter out the results that you are not interested in. You will learn how to get your computer to do all the work for you so that you only get the results that you want. PowerShell can generate a lot of data, sometimes a lot more than what you actually need. We look at how you can multitask with PowerShell and how to run longer programs in the background, freeing your system up for other tasks. You will learn how to create jobs and what commands can be very useful when it comes to controlling them.)> You will learn how to you can overcome a near-fatal flaw in PowerShell's security and how to use it safely and securely. You'll learn how to protect your shell from malicious hackers. We will look at the Windows Management Instrumentation and introduce you to what it actually does. We will discuss whether or not you actually need to use it and what alternatives there are out there. We will get down to the nuts and bolts of how to use variables to get more of what you want from PowerShell. We also look at writing your own functions and making them into reusable tools. We look at creating your very own cmdlets and tailoring them to your needs.)> We look at why your scripts aren't running as well as they should and how you can go about fixing them. We then go through how you can prevent errors from cropping up in the first place - this is as close to perfection as you are going to get with PowerShell. You also learn how to deal with errors that you cannot prevent, such as network errors and how to get PowerShell to do what you want despite these errors. We look at how you can start to customize your PowerShell experience to suit you and how you can get more out of it. We also run through a quick cheat sheet of the different punctuation marks and how to use them. ...and much more! Take the first step towards mastering PowerShell today. Click the buy now button above for instant access. Also included are 2 FREE GIFTS! - A sample from one of my other best-selling books, and a full length, FREE BOOK included with your purchase! [Windows PowerShell in Action](#) Bruce Payette 2011 A guide to using Windows PowerShell to script Windows administrative tasks and control Windows from the command line.

Automate the Boring Stuff with Python, 2nd Edition Al Sweigart 2019-11-12 The second edition of this best-selling Python book (over 500,000 copies sold!) uses Python 3 to teach even the technically uninclined how to write programs that do in minutes what would take hours to do by hand. There is no prior programming experience required and the book is loved by liberal arts majors and geeks alike. If you've ever spent hours renaming files or updating hundreds of spreadsheet cells, you know how tedious tasks like these can be. But what if you could have your computer do them for you? In this fully revised second edition of the best-selling classic Automate the Boring Stuff with Python, you'll learn how to use Python to write programs that do in minutes what would take you hours to do by hand--no prior programming experience required. You'll learn the basics of Python and explore Python's rich library of modules for performing specific tasks, like scraping data off websites, reading PDF and Word documents, and automating clicking and typing tasks. The second edition of this international fan favorite includes a brand-new chapter on input validation, as well as tutorials on automating Gmail and Google Sheets, plus tips on automatically updating CSV files. You'll learn how to create programs that effortlessly perform useful feats of automation: • Search for text in a file or across multiple files • Create, update, move, and rename files and folders • Search the Web and download online content • Update and format data in Excel spreadsheets at any size • Split, merge, watermark, and encrypt PDFs • Send email responses and text notifications • Fill out online forms Step-by-step instructions walk you through each program, and updated practice projects at the end of each chapter challenge you to improve those programs and use your newfound skills to automate similar tasks. Don't spend your time doing work a well-trained monkey could do. Even if you've never written a line of code, you can make your computer do the grunt work. Learn how in Automate the Boring Stuff with Python, 2nd Edition.

PowerShell for Beginners Chase Clarke 2020-03-09 WHAT IS POWERSHELL? Windows PowerShell is an item situated robotization motor and scripting language. It is primarily aimed at system administrators. It causes IT experts, to control and mechanize the administration of the Windows operating system and other applications. While many casual users know about the Command Prompt, only a few have heard about Windows PowerShell. PowerShell is a much more powerful tool than the Command Prompt. It is also intended to replace the Command Prompt, as it delivers more power and control over the Windows operating system. Windows PowerShell is a shell initially developed by Microsoft for the purposes of task automation and configuration management. PowerShell is now an open source project, and it can be installed on Windows, macOS, and Linux platforms. This shell is based on the .NET framework, and it includes a command-line shell and a scripting language. POWERSHELL FOR BEGINNERS contains chapters on... HISTORY OF POWERSHELL LEARNING POWERSHELL FROM THE START WHAT IS POWERSHELL ISE THE DIFFERENCE BETWEEN POWERSHELL AND CMD POWERSHELL PROVIDERS AND MODULES WHAT MAKES A POWERSHELL OBJECT? ENTRANCE TO THE CONSTRUCTION SITE UNDERSTANDING OF POWERSHELL FOREACH LOOP AND FOREACH-OBJECT WINDOWS POWERSHELL PROVIDERS. Who is this book for? Windows PowerShell is an incredibly powerful tool that is included in Windows, and that is available for many other operating systems. It brings many benefits to power-users and IT professionals. However, casual users can benefit from using it too. The knowledge and skills that you gain from this book can allow you to grasp the basics of windows PowerShell scripting. PowerShell for Beginners is extensively researched and documented and will prove extremely effective at preparing you to begin an exciting new career as a computer systems administrator or even to improve the day to day running of the pc's on your home network... What are you waiting for? Take Action TODAY! Grab your copy of POWERSHELL FOR BEGINNERS NOW...

PowerShell 7 for IT Professionals Thomas Lee 2020-12-22 Take advantage of everything Microsoft's new PowerShell 7 has to offer PowerShell 7 for IT Pros is your guide to using PowerShell 7, the open source, cross-platform version of Windows PowerShell. Windows IT professionals can begin setting up automation in PowerShell 7, which features many improvements over the early version of PowerShell Core and Windows PowerShell. PowerShell 7 users can enjoy the high level of compatibility with the Windows PowerShell modules they rely on today. This book shows IT professionals—especially Windows administrators and developers—how to use PowerShell 7 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.

Learn PowerShell Scripting in a Month of Lunches Don Jones 2017-11-11 Summary Discover how scripting is different from command-line PowerShell, as you explore concrete hands-on examples in this handy guide. The book includes and expands on many of the techniques presented in Learn PowerShell Toolmaking in a Month of Lunches. Purchase of the print book includes a free eBook in PDF, Kindle, and ePub formats from Manning Publications. About the Technology Automate it! With Microsoft's PowerShell language, you can write scripts to control nearly every aspect of Windows. Just master a few straightforward scripting skills, and you'll be able to eliminate repetitive manual tasks, create custom reusable tools, and build effective pipelines and workflows. Once you start scripting in PowerShell, you'll be amazed at how many opportunities you'll find to save time and effort. About the Book Learn PowerShell Scripting in a Month of Lunches teaches you how to expand your command-line PowerShell skills into effective scripts and tools. In 27 bite-size lessons, you'll discover instantly useful techniques for writing efficient code, finding and squashing bugs, organizing your scripts into libraries, and much more. Advanced scripters will even learn to access the .NET Framework, store data long term, and create nice user interfaces. What's Inside Designing functions and scripts Effective pipeline usage Dealing with errors and bugs Professional-grade scripting practices About the Reader Written for devs and IT pros comfortable with PowerShell and Windows. About the Authors Don Jones is a PowerShell MVP, speaker, and trainer who has written dozens of books on information technology topics. Jeffery Hicks is a PowerShell MVP and an independent consultant, trainer, and author. Don and Jeff coauthored Manning's Learn Windows PowerShell in a Month of Lunches, Learn PowerShell Toolmaking in a Month of Lunches, and PowerShell in Depth. Table of Contents PART 1 - INTRODUCTION TO SCRIPTING Before you begin Setting up your scripting environment WWPDP: what would PowerShell do? Review: parameter binding and the PowerShell pipeline Scripting language crash course The many forms of scripting (and which to use) Scripts and security PART 2 - BUILDING A POWERSHELL SCRIPT Always design first Avoiding bugs: start with a command Building a basic function and script module Going advanced with your function Objects: the best kind of output Using all the pipelines Simple help: making a comment Dealing with errors Filling out a manifest PART 3 - GROWN-UP SCRIPTING Changing your brain when it comes to scripting Professional-grade scripting An introduction to source control with git 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

Windows PowerShell for .NET Developers Chandrayan Venkatesan 2015-10-27 Efficiently administer and maintain your development environment with Windows PowerShell About This Book Explore scripting and automation techniques with Windows PowerShell Gain concrete knowledge of Windows PowerShell scripting to perform professional level scripting Discover the benefits of the Configuration Management Platform with this step-by-step guide that includes real-world scripting examples Who This Book Is For If you are an IT professional or developer who has worked on the .Net platform and you want to learn automation using Windows PowerShell, then this book is for you. This self-start guide takes you from the basics and gradually moves to an intermediate level to show you how to perform professional scripting. What You Will Learn Understand the concepts of building PowerShell scripts and the basics of programming Manage the LYNC, Exchange, and SharePoint platforms Create a Pull server using a SMB file share and HTTP and HTTPS Use .NET classes in Windows PowerShell and C# to manage Exchange Online Use PowerShell in C# to manage Exchange Online and work with .NET classes in PowerShell Automate LYNC clients, consuming Client Server Object Models to administrate SharePoint Online In Detail Windows PowerShell 5.0 for .NET Developers is your self-start guide to performing automation using Windows PowerShell. This book will help you to understand the PowerShell syntax and grammar and will also teach you techniques to remove the rough edges of manual deployments. Packed with PowerShell scripts and sample C# codes to automate tasks, it also includes real-world scenarios such as administering office servers to help you save time and perform deployments swiftly and efficiently. The book begins with the Windows PowerShell basics, explores the significant features of Windows Management Framework 5.0, covers the basic concepts of Desired State Configuration and the importance of idempotent deployments. By the end of the book, you will have a good understanding of Windows PowerShell's features and will be able to automate your tasks and manage configuration effectively. Style and approach This is an easy-to-follow step-by-step guide with text-enabled screenshots. Each topic is explained with codes and examples. It also includes multiple approaches for a number of tasks to let you choose the best one for you depending on your scenario.

Windows PowerShell 3.0 Step by Step Ed Wilson 2013-02-15 Your hands-on, step-by-step guide to automating Windows administration with Windows PowerShell 3.0 Teach yourself the fundamentals of Windows

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

**PowerShell in Depth** Don Jones 2014-10-31 Summary PowerShell in Depth, Second Edition is the go-to reference for administrators working with Windows PowerShell. Every major technique, technology, and tactic is carefully explained and demonstrated, providing a hands-on guide to almost everything an admin would do in the shell. Written by three experienced authors and PowerShell MVPs, this is the PowerShell book you'll keep next to your monitor—not on your bookshelf! Purchase of the print book includes a free eBook in PDF, Kindle, and ePub formats from Manning Publications. About the Book A Windows admin using PowerShell every day may not have the time to search the net every time he or she hits a snag. Wouldn't it be great to have a team of seasoned PowerShell experts ready to answer even the toughest questions? That's what you get with this book. PowerShell in Depth, Second Edition is the go-to reference for administrators working with Windows PowerShell. Every major technique, technology, and tactic is carefully explained and demonstrated, providing a hands-on guide to almost everything an admin would do in the shell. Written by PowerShell MVPs Don Jones, Jeffrey Hicks, and Richard Siddaway, each valuable technique was developed and thoroughly tested, so you'll be able to consistently write production-quality, maintainable scripts while saving hours of time and effort. This book assumes you know the basics of PowerShell. What's Inside Automating tasks Packaging and deploying scripts Introduction to Desired State Configuration PowerShell security Covers PowerShell version 3 and later About the Authors Don Jones, Jeffrey Hicks, and Richard Siddaway are Microsoft MVPs, trainers, and administrators. Collectively, they've authored nearly three dozen books on PowerShell and Windows administration. Table of Contents PART 1 POWERSHELL FUNDAMENTALS Introduction PowerShell hosts Using the PowerShell help system The Basics of PowerShell syntax Working with PSnapins and modules Operators Working with objects The PowerShell pipeline Formatting PART 2 POWERSHELL MANAGEMENT PowerShell Remoting Background jobs and scheduling Working with credentials Regular expressions Working with HTML and XML data PSDrives and PSProviders Variables, arrays, hash tables, and script blocks PowerShell security Advanced PowerShell syntax PART 3 POWERSHELL SCRIPTING AND AUTOMATION PowerShell's scripting language Basic scripts and functions Creating objects for output Scope PowerShell workflows Advanced syntax for scripts and functions Script modules and manifest modules Custom formatting views Custom type extensions Data language and internationalization Writing help for error handling techniques Debugging tools and techniques Functions that work like cmdlets Tips and tricks for creating reports PART 4 ADVANCED POWERSHELL Working with the Component Object Model (COM) Working with .NET Framework objects Accessing databases Proxy functions Building a GUI WMI and CIM Working with the web Desired State Configuration

**PowerShell Deep Dives** Oisín Grehan 2013-07-25 Summary Here's your chance to learn from the best in the business. PowerShell Deep Dives is a trove of essential techniques, practical guidance, and the expert insights you earn only through years of experience. Editors Jeffrey Hicks, Richard Siddaway, Oisín Grehan, and Aleksandar Nikolic hand-picked the 28 chapters in the book's four parts: Administration, Scripting, Development, and Platforms. About the Technology PowerShell has permanently changed Windows administration. This powerful scripting and automation tool allows you to control virtually every aspect of Windows and most Microsoft servers like IIS and SQL Server. Here's your chance to learn from the best in the business. About this Book PowerShell Deep Dives is a trove of essential techniques and practical guidance. It is rich with insights from experts who won them through years of experience. The book's 28 chapters, grouped in four parts (Administration, Scripting, Development, and Platforms), were hand-picked by four section editors: Jeffrey Hicks, Richard Siddaway, Oisín Grehan, and Aleksandar Nikolic. Whether you're just getting started with PowerShell or you already use it daily, you'll find yourself returning to this book over and over. What's Inside Managing systems through a keyhole The Ten Commandments of PowerShell Scripting Scalable scripting for large datasets Adding automatic remoting Provisioning web servers and websites automatically to IIS 8 And 23 more fantastic chapters Purchase of the print book includes a free eBook in PDF, Kindle, and ePub formats from Manning Publications. About the Authors/Editors Jeffrey Hicks, Richard Siddaway, Oisín Grehan, and Aleksandar Nikolic are joined by PowerShell experts Chris Bellee, Bartek Bielawski, Robert C. Cain, Jim Christopher, Adam Driscoll, Josh Gavant, Jason Helmick, Don Jones, Ashley McGlone, Jonathan Medd, Ben Miller, James O'Neill, Arnaud Petitjean, Vadims Podans, Karl Prosser, Boe Prox, Matthew Reynolds, Mike Robbins, Donabel Santos, Will Steele, Trevor Sullivan, and Jeff Wouters. Table of Contents PART 1 POWERSHELL ADMINISTRATION Diagnosing and troubleshooting PowerShell remoting CIM sessions 22 Collecting and analyzing performance counter data TCP port communications with PowerShell Managing systems through a keyhole Using PowerShell to audit user logon events Managing and administering a certification authority database with PowerShell Using PowerShell to reduce Active Directory token bloat PART 2 POWERSHELL SCRIPTING The 10 PowerShell scripting commandments Avoiding the pipeline A template for handling and reporting errors Tips and tricks for creating complex or advanced HTML reports with PowerShell Using and "abusing" dynamic parameters PowerShell type formatting Scalable scripting for large data sets: pipeline-and database techniques Building your own WMI-based cmdlets Turning common-command-line tools into PowerShell tools PART 3 POWERSHELL FOR DEVELOPERS Using Source Control Software with PowerShell Inline .NET code PowerShell and XML: better together Adding automatic remoting to advanced command-line cmdlets Taming software builds (and other complicated processes) with psake PART 4 POWERSHELL PLATFORMS PowerShell and the SQL Server provider Creating flexible subscriptions in SSRS Inventory database table statistics using PowerShell SQL Server Management Objects WSUS and PowerShell Provisioning IIS web servers and sites with PowerShell Active Directory Group Management application

**Microsoft Windows PowerShell 2.0 Programming for the Absolute Beginner** Jerry Lee Ford 2008 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 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.

**PowerShell Timothy Short 2017-10-09 Easy to follow guide to learn the basics of PowerShell - no previous experience required!** This book, "PowerShell: The Quickstart Beginners Guide" will teach you everything that you need to know in order to get started programming with Microsoft Windows PowerShell. If you take the time to learn and practice what you learn within this book, you will find yourself working with PowerShell in no time! This guide gives you instructions so you can start applying yourself and learning how to use PowerShell right from the start. All terms are broken down throughout the book so you won't be overwhelmed with any technical jargon. This book contains detailed knowledge and applicable steps on: " Getting PowerShell Up and Running " Scripts " Useful Tools to Help You Along The Way " How To Set PS Up For Automation " How To Remote Work with Windows PowerShell " Objects in PowerShell " Formatting " How To Customize Your PowerShell Profile Settings " What Are Variables " How To Get Rid of Unwanted Apps " How To Install PowerShell on Alternate OS " How To Change Your IP Address " How To Automatically Write Scripts " How To Rename a Bunch of Files at the Same Time " How To Kill a Process with PowerShell " How To Run Bash Within PowerShell " PowerShell and PowerShell GUI " Tools for IT Professionals " Advanced PowerShell Remoting " PowerShell Mistakes (That Everyone Makes) " Bash Scripts " Changing Your IP Address on Wired Connections If you're looking for the easiest way to teach yourself PowerShell then this book will be your best friend. Buy it on Amazon Prime now and start learning from tomorrow! Tags: PowerShell, PowerShell Scripting, PowerShell For Beginners, Learn PowerShell, Windows PowerShell For Beginners, Computer Programming, Windows PowerShell, Microsoft Windows PowerShell, System Programming

**PowerShell Alex Artuso 2016-03-13 PowerShell For Beginners! The Ultimate Beginners Crash Course To Mastering The PowerShell Command Line Quickly And Easily Are You Ready To Learn How To Write Clean, Efficient PowerShell Scripts? If So You've Come To The Right Place - Regardless Of How Little Experience You May Have!** Learning to program is a fantastic still, and if you're a newbie you've ended up in the right place! PowerShell is a fantastic first or second programming language to learn (and master with the help of this book!). There's a ton of other technical guides out there that aren't clear and concise, and in my opinion use far too much jargon. My job is to teach you in simple, easy to follow terms how to get started and excel at PowerShell programming. You'll find my personal notes and tips peppered throughout the book, making it personal and easy to learn. Here's a Preview Of What PowerShell For Beginners! Contains... A Step Back Into The History Of PowerShell Setting Up The PowerShell Playground! Getting Ready To Run Customizing The Shell & Online Resources PowerShell Versions And Consoles Explained Discovering Commands, Parameters & Strings Essential PowerShell Terminology Working With PowerShell Commands The Piping Function Explained! And Much, Much More!

**Learn Windows PowerShell 3 in a Month of Lunches** Don Jones 2012-11-22 Presents a guide on how to use Windows PowerShell to script Windows administrative tasks and control Windows from the command line. Windows PowerShell 2.0 Best Practices Ed Wilson 2009-12-16 Apply best practices for automating system administration with Windows PowerShell 2.0 and optimize your operational efficiency and results. This guide captures the field-tested tips, real-world lessons, and candid advice of practitioners across the range of business and technical scenarios and across the scripting life cycle. Discover how to: Take advantage of new features and cmdlets in Windows PowerShell 2.0 Plan scripting usage scenarios and define standards Deploy Windows PowerShell 2.0 to desktops and servers Configure scripting environments Optimize remote scripting capabilities Work with Active Directory and WMI Design functions and modules Optimize input and output Handle errors Document scripts Test and troubleshoot scripts Avoid scripting pitfalls The companion CD includes a fully searchable eBook and sample scripts. For customers who purchase an eBook version of this title, instructions for downloading the CD files can be found in the eBook.

**PowerShell Mark Reed 2020-08-21 Do you want a system that can rapidly automate tasks and processes? Have you heard about PowerShell and its abilities? Do you want to learn more about it? Microsoft's task automation and configuration management framework, PowerShell, has undergone its latest transformation with PowerShell 7.0, bringing it right up to date perfect for you when it comes to automating tasks that manage operating systems. It takes the idea to a whole new level that users will find exciting and innovative, while being easy to learn and retain as well. Now, with this new and informative book, PowerShell: The Ultimate Beginners Guide to Learn PowerShell Step-by-Step, you can discover the benefits that it could bring to you, such as: - Rapid automation of tasks- Greater compatibility with Windows- Simplicity of use- Centralized logging- Manage IT environments at scale- Access hard to find user information- And much more... Suitable for absolute beginner's to this concept, PowerShell: The Ultimate Beginners Guide to Learn PowerShell Step-by-Step details exactly what you need to know in a simple and straightforward language that anyone will quickly grasp. If that sounds like something you could use in your daily life, then get a copy now and start learning today!**

**PowerShell Matthew Adams 2017-03-13 Are You Looking To Navigate The Filesystem, Manage Files and Folders, Or Retrieve A Web Page? Ready To Learn Efficient PowerShell Scripts? Yes, you can use Windows PowerShell Help system as the quickest way to discover the commands you need for the particular task you want to accomplish. Windows PowerShell is Microsoft's standard automation tool and something that every Windows administrator will eventually have to understand. The book, "PowerShell: The PowerShell for Beginners Guide to Learn PowerShell Scripting, PowerShell 5 and Windows PowerShell", is filled with examples and fun little exercises that will show the reader the results of their work immediately and encourages the reader to continue learning. It provides the background necessary to apply PowerShell automation and introduces the PowerShell Script Language, shows the secure execution of command sequences as scripts, and demonstrates how to use PowerShell to access essential operating system interfaces. What you will learn inside the book: The Basics of PowerShell Learning the PowerShell Commands PowerShell Script Creation PowerShell Providers Working with Files and Folders Making PowerShell Work for You PowerShell Terminology This book will guide you through the very basics and up to the point where you will have enough tools to learn more advanced guidebooks or continue scripting and automating Windows using PowerShell. No Experience With Windows PowerShell Or Other Scripting Technologies Necessary This book is designed for anyone who wants to learn Windows PowerShell. By the end of the book, you will be able to: Optimize code through the use of functions, switches, and looping structures Utilize variables, hashes, and arrays to store data Work with Objects and Operators to test and manipulate data Create and implement regular expressions in PowerShell scripts Leverage session-based remote management Manage files, folders, and registries through the use of PowerShell Discover the best practices to manage Microsoft systems This guide captures the field-tested tips, real-world lessons, and candid advice of practitioners across the range of business and technical scenarios and across the scripting life cycle. What are you waiting for? Buy "PowerShell: The PowerShell for Beginners Guide to Learn PowerShell Scripting, PowerShell 5 and Windows PowerShell" right now and prepare for the future of Microsoft automation!**

**Getting Started with PowerShell** Michael Shepard 2015-08-27 Learn the fundamentals of PowerShell to build reusable scripts and functions to automate administrative tasks with Windows About This Book Harness the capabilities of the PowerShell system to get started quickly with server automation Learn to package commands into a reusable script and add control structures and parameters to make them flexible Get to grips with cmdlets that allow you to perform administration tasks efficiently Who This Book Is For This book is intended for Windows administrators or DevOps users who need to use PowerShell to automate tasks. Whether you know nothing about PowerShell or know just enough to get by, this guide will give you what you need to go to take your scripting to the next level. What You Will Learn Learn to verify your installed version of PowerShell, upgrade it, and start a PowerShell session using the ISE Discover PowerShell commands and cmdlets and understand PowerShell formatting Use the PowerShell help system to understand what particular cmdlets do Utilise the pipeline to perform typical data manipulation Package your code in scripts, functions, and modules Solve common problems using basic file input/output functions Find system information with WMI and CIM Automate IIS functionality and manage it using the WebAdministration module In Detail Windows PowerShell is a task-based command-line shell and scripting language designed specifically for system administration. Built on the .NET Framework, Windows PowerShell helps IT professionals and power users control and automate the administration of the Windows operating system and applications that run on Windows. PowerShell is great for batch importing or deleting large sets of user accounts and will let you collect a massive amount of detailed system information in bulk via WMI (Windows Management Instrumentation). Getting Started with PowerShell is designed to help you get up and running with PowerShell, taking you from the basics of installation, to writing scripts and web server automation. This book, as an introduction to the central topics of PowerShell, covers finding and understanding PowerShell commands and packaging code for reusability, right through to a practical example of automating IIS. It also includes topics such as installation and setup, creating scripts, automating tasks, and using PowerShell to access data stores, registry, and file systems. You will explore the PowerShell environment and discover how to use cmdlets, functions, and scripts to automate Windows systems. Along the way, you will learn to perform data manipulation and solve common problems using basic file input/output functions. By the end of this book, you will be familiar with PowerShell and be able to utilize the lessons learned from the book to automate your servers. Style and approach A practical learning guide, complete with plenty of activities, examples and screenshots.

**Learning PowerShell** Jonathan Hassell 2017-03-20 Learning PowerShell is a custom-built, handcrafted, painstakingly curated book designed to get you from total PowerShell newbie to confident PowerShell user in as little as four weeks. This book assumes no prior knowledge, perfect for non-developers and GUI addicts who recognize that PowerShell is the future but need a good bit of handholding to achieve mastery. It is also a simple guide for the hundreds of thousands of PowerShell users who have not attained the level of PowerShell knowledge that they really need. With Learning PowerShell at your side, you will see that you don't have to be a developer to use PowerShell and you don't need to be a scripting wizard to derive value from integrating PowerShell into your daily administrative activities. The book is a learning resource that covers every topic worth discussing for a PowerShell beginner, with a depth of explanation unparalleled by any book currently on the market. With this book, you don't have to have a lot of time to learn the language and you can begin applying what you master almost immediately. Even skeptics of PowerShell, and command lines in general, will come away with a renewed sense of respect for the language and ideas on how to put it to use.

**Mastering PowerShell Scripting** Chris Dent 2021-06-29 This complete guide takes you on a tour of PowerShell from the basics to its advanced functionality, helping you automate your tedious and time-consuming system admin tasks Key Features Automate complex tasks, manipulate data, and secure your environment Work with dual code for PowerShell 7 and Windows PowerShell to maintain compatibility with older versions See PowerShell in action, from learning the fundamentals to creating classes, scripts, and modules Book Description PowerShell scripts offer a convenient way to automate various tasks, but working with them can be daunting. Mastering PowerShell Scripting takes away the fear and helps you navigate through PowerShell's capabilities. This extensively revised edition includes new chapters on debugging and troubleshooting and creating GUIs (online chapter). Learn the new features of PowerShell 7.1 by working with parameters, objects, and .NET classes from within PowerShell 7.1. This comprehensive guide starts with the basics before moving on to advanced topics, including asynchronous processing, desired state configuration, using more complex scripts and filters, debugging issues, and error-handling techniques. Explore how to efficiently manage substantial amounts of data and interact with other services using PowerShell 7.1. This book will help you to make the most of PowerShell's automation features, using different methods to parse data, manipulate regular expressions, and work with Windows Management Instrumentation (WMI). What you will learn Optimize code with functions, switches, and looping structures Test and debug your scripts as well as raising and catching errors Work with objects and operators to test and manipulate data Parse and manipulate different data types Use jobs, runspace, and runspace pools to run code asynchronously Write .NET classes with ease within PowerShell Create and implement regular expressions in PowerShell scripts Make use of advanced techniques to define and restrict the behavior of parameters Who this book is for This book is for system administrators who want to automate and speed up

their processes using PowerShell and Windows PowerShell. You'll need to know the basics of operating systems, but beginners with no prior experience with PowerShell will have no trouble following along.

**Windows PowerShell 2.0 Bible** Thomas Lee 2011-09-26 Here's the complete guide to Windows PowerShell 2.0 for administrators and developers Windows PowerShell is Microsoft's next-generation scripting and automation language. This comprehensive volume provides the background that IT administrators and developers need in order to start using PowerShell automation in exciting new ways. It explains what PowerShell is, how to use the language, and specific ways to apply PowerShell in various technologies. Windows PowerShell is Microsoft's standard automation tool and something that every Windows administrator will eventually have to understand; this book provides the background necessary to apply PowerShell automation. Covers how to use the language and specific ways to apply PowerShell in a variety of scenarios Addresses new features in the latest version of PowerShell and the additional functionality delivered by new products that provide direct or indirect ways to use PowerShell for scripting and automation purposes Explores the language fundamentals and how to use PowerShell for desktop, server, server application, and virtualization/cloud situations This thorough guide goes well beyond theory to offer real-world information and new scripting techniques, enabling administrators and developers to make the most of PowerShell 2.0.

**Windows PowerShell Step by Step** Ed Wilson 2015-10-13 Your hands-on guide to Windows PowerShell scripting fundamentals Expand your expertise--and teach yourself the fundamentals of Windows PowerShell scripting, including features available in Windows PowerShell 5. If you are an IT professional, power user, or consultant, you'll get the guidance, exercises, and code you need to master core techniques for automating Windows setup, deployment, and management. Discover how to: Run cmdlets and command-line utilities Administer Windows-based servers and desktops with built-in cmdlets Use providers to access external information Write and run scripts from the Windows ISE Create functions that are easy to maintain Build standardized environments with profiles Automate Windows systems with WMI, CIM cmdlets, and remoting Automate Active Directory Domain Services (AD DS) Debug scripts and handle errors Run commands that survive interruptions Use Desired State Configuration (DSC) to manage software services and their environments Get powerful new modules from PowerShell Gallery About You This book is for: IT professionals and power users who want to get productive with Windows PowerShell, including new features in Windows PowerShell 5 Windows system administrators who want to be more efficient and productive Anyone pursuing Windows PowerShell certifications No experience with Windows PowerShell or other scripting technologies necessary

**PowerShell** Craig Newport 2019-07-03 This book covers the topic of Windows PowerShell and will teach you all about how to use it and all of its possibilities. Essentially, the PowerShell is a command line interface that operates within the Windows system, with the purpose of task automation and configuration management. It is a fairly intuitive system, and as you will soon realize, it doesn't take too long to get the hang of! Inside, you will learn how the PowerShell operates, how the associated scripting language works, the different commands you will need to know, and what kind of things are possible when using the PowerShell. Even if you're totally new to programming and have never used a scripting environment, at the completion of this book you should have a solid understanding of Windows PowerShell, and be ready to get started! Here Is What You'll Learn About Inside... What Is PowerShell PowerShell Language Working With Commands Pipelines & Outputs Quotes & Strings Scalers The Drives & Providers The Operations Of PowerShell Much, Much More!

*powershell-the-ultimate-windows-powershell-beginners-guide-learn-powershell-scripting-in-a-day-powershell-scripting-guide-windows-powershell-5-learn-javascript-command-line-c-sql*

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