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[Windows Server 2012 Automation with Powershell Cookbook](#) Jan 14 2023 Cookbook with recipes based on real life examples. This book is written to assist the daily tasks for systems administrators, engineers, and architects working with Windows Server 2012.

**Mastering Windows PowerShell Scripting** Sep 17 2020 Master the art of automating and managing your environment using PowerShell About This Book Find quick solutions to automate your environment with ease Work with large amounts of data effortlessly with PowerShell data types and secure them Packed with real-world examples to automate and simplify the management of your Windows environment 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 this book is for you. It is also for those new to the PowerShell language. What You Will Learn Optimize code through the use of functions, switches, and looping structures Install PowerShell on your Linux system Utilize variables, hashes, and arrays to store data Work with Objects and Operators to test and manipulate data Parse and manipulate different data types Write .NET classes with ease within the PowerShell Create and implement regular expressions in PowerShell scripts Deploy applications and code with PowerShell's Package management modules Leverage session-based remote management Manage files, folders, and registries through the use of PowerShell In Detail PowerShell scripts offer a handy way to automate various chores. Working with these scripts effectively can be a difficult task. This comprehensive guide starts from scratch and covers advanced-level topics to make you a PowerShell expert. The first module, PowerShell Fundamentals, begins with new features, installing PowerShell on Linux, working with parameters and objects, and also how you can work with .NET classes from within PowerShell. In the next module, you'll see how to efficiently manage large amounts of data and interact with other services using PowerShell. You'll be able to make the most of PowerShell's powerful automation feature, where you will have different methods to parse and manipulate data, regular expressions, and WMI. After automation, you will enter the Extending PowerShell module, which covers topics such as asynchronous processing and, creating modules. The final step is to secure your PowerShell, so you will land in the last module, Securing and Debugging PowerShell, which covers PowerShell execution policies, error handling techniques, and testing. By the end of the book, you will be an expert in using the PowerShell language. Style and approach This practical guide covers all the advanced PowerShell functionalities that an administrator needs to learn to automate their environments.

**Learn PowerShell Core 6.0** Apr 24 2021 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.

**Getting Started with PowerShell** May 26 2021 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.

*Windows PowerShell 2.0* Apr 12 2020

**Windows Powershell Cookbook** Feb 20 2021 This updated and expanded second edition of the Windows PowerShell Cookbook: The Complete Guide to Scripting Microsoft's Command provides a user-friendly introduction to the subject Taking a clear structural framework, it guides the reader through the subject's core elements. A flowing writing style combines with the use of illustrations and diagrams throughout the text to ensure the reader understands even the most complex of concepts. This succinct and enlightening overview is a required reading for all those interested in the subject . We hope you find this book useful in shaping your future career & Business.

Windows PowerShell Pocket Reference Oct 11 2022 "Portable help for PowerShell scripters"--Cover.

**Windows Server 2016 Automation with Powershell Cookbook** Mar 16 2023 Over 100 recipes to help you leverage PowerShell to automate Windows Server 2016 manual tasksAbout 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 recipesWho This Book Is ForIf you are a systems administrator, engineer, or an architect working with Windows Server 2016 and want to automate tasks with PowerShell, then this book is for you. A basic knowledge of PowerShell is expected.What You Will Learn\* Streamline routine administration processes\* Improve the performance and storage of your Windows server with enhanced large-scale PowerShell scripts\* Use DSC to leverage Windows server features\* Generate automatic reports that highlight unexpected changes in your environment\* Monitor performance and report on system utilization using detailed graphs and analysis\* Create and manage a reliable and redundant Hyper-V environment\* Manage your enterprise's patch level\* Utilize multiple tools and protocols to manage your environmentIn DetailThis book showcases several ways that Windows administrators can use to automate and streamline their job. You'll start with the PowerShell and Windows Server fundamentals, where you'll become well versed with PowerShell and Windows Server features.In the next module, Core Windows Server 2016, you'll implement Nano Server, manage Windows updates, and implement troubleshooting and server inventories. You'll then move on to the Networking module, where you'll manage Windows network services and network shares.The last module covers Azure and DSC, where you will use Azure on PowerShell and DSC to easily maintain Windows servers.Style and approachThis is a practical guide packed with attractive recipes to help you effectively use PowerShell to accelerate your daily administrative tasks with Windows server.

Active Directory with PowerShell Aug 29 2021 If you are looking to automate repetitive tasks in Active Directory management using the PowerShell module, then this book is for you. Any experience in PowerShell would be an added advantage.

Windows Server 2019 Cookbook Jul 28 2021 Efficiently manage and administer enterprise environments using Microsoft Windows Server 2019 Key FeaturesLeverage Windows Server 2019 to improve enterprise workflow efficiency and increase productivityDeliver enterprise-grade cloud services that can be applied in your infrastructureGet up and running with PowerShell and the all-new Hyper-V improvementsBook Description Do you want to get up and running with essential administrative tasks in Windows Server 2019? This second edition of the Windows Server 2019 Cookbook is packed with practical recipes that will help you do just that. The book starts by taking you through the basics that you need to know to get a Windows Server operating system working, before teaching you how to navigate through daily tasks using the upgraded graphical user interface (GUI). You'll then learn how to compose an optimal Group Policy and perform task automation with PowerShell scripting. As you advance, you'll get to grips with faster app innovation, improved Windows security measures, and hybrid cloud environments. After you've explored the functions available to provide remote network access to your users, you'll cover the new Hyper-V enhancements. Finally, this Windows Server book will guide you through practical recipes relating to Azure integration and important tips for how to manage a Windows Server environment seamlessly. By the end of this book, you'll be well-versed with Windows Server 2019 essentials and have the skills you need to configure Windows services and implement best practices for securing a Windows Server environment. What you will learnGet up and running with Windows Server 2019's new featuresInstall, configure, and administer Windows Server 2019 effectivelyConfigure the server to host any enterprise applicationDiscover ways to manage a server without a GUIsafeguard your virtual machines in the event of server failureExplore new ways to integrate Windows Server with Microsoft AzureDeploy Windows containers using DockerWho this book is for This Windows Server 2019 book is for system administrators and IT professionals who have basic experience in Windows environments and are interested in acquiring the skills and knowledge needed to manage and maintain the core infrastructure required for a Windows Server 2019 environment.

Microsoft Exchange 2010 PowerShell Cookbook May 14 2020 Manage and maintain your Microsoft Exchange 2010 environment with Windows PowerShell 2.0 and the Exchange Management Shell.

Windows Server Automation with PowerShell Cookbook Mar 04 2022 Use over 100 PowerShell 7.2 recipes to deepen your understanding of Windows Server 2022 and see how to automate common administrative tasks with ease Purchase of the print or Kindle book includes a free eBook in PDF format Key FeaturesNew edition updated to the latest version of PowerShell 7.2 and Windows Server 2022Discover new ways to optimize your PowerShell code by working through easy-to-follow recipesLearn PowerShell best practices to automate common tasks and manage DHCP in Microsoft Windows Server, objects in Active Directory, Hyper-V, and AzureBook Description The Windows Server Automation with PowerShell Cookbook is back with a new edition, featuring over 100 PowerShell recipes that will make your day-to-day work easier. This book is designed to help you learn how to install, configure and use PowerShell 7.2 effectively. To start with, we'll look at how to install and configure PowerShell 7.2, along with useful new features and optimizations, and show you how the PowerShell compatibility solution bridges the gap to older versions of PowerShell. We'll also be covering a wide range of fundamental and more advanced use cases, including how to create a VM and set up an Azure VPN, as well as looking at how to back up to Azure. As you progress, you'll explore topics such as using PowerShell to manage networking and DHCP in Windows Server, objects in Active Directory, Hyper-V, and Azure. We'll also take a closer look at WSUS, containers and see how to handle modules that are not directly compatible with PowerShell 7. Finally, you'll also learn how to use some powerful tools to diagnose and resolve issues with Windows Server. By the end of this PowerShell book, you'll know how to use PowerShell 7.2 to automate tasks on Windows Server 2022 with ease, helping your Windows environment to run faster and smoother. What you will learnPerform key admin tasks on Windows ServerKeep your organization secure with JEA, group policies, logs, and Windows DefenderUse

.NET Framework for administrative scriptingManage data and storage on Windows, including disks, volumes, and filesystemsReport system performance using built-in cmdlets and WMI to obtain single measurementsApply the right tools and modules to troubleshoot and debug Windows ServerCreate, manage, and back up a second VM using the subnetwork in AzureLearn how to set up a VPN in Azure with PowerShellWho this book is for This book is for systems administrators, software architects, developers, consultants, and engineers working with Windows Server 2022 who want to automate tasks more effectively with PowerShell 7.2. You'll need to have conquered the basics of PowerShell and have a rudimentary understanding of PowerShell scripting before you can get started with this book.

**PowerShell Cookbook** Dec 13 2022 How do you use PowerShell to navigate the filesystem, manage files and folders, or retrieve a web page? This introduction to the PowerShell language and scripting environment provides more than 400 task-oriented recipes to help you solve all kinds of problems. Intermediate to advanced system administrators will find more than 100 tried-and-tested scripts they can copy and use immediately. Updated for PowerShell 5.1 and Open Source PowerShell up to 7.0 and beyond, this comprehensive cookbook includes hands-on recipes for common tasks and administrative jobs that you can apply whether you're on the client or server version of Windows. You also get quick references to technologies used in conjunction with PowerShell, including regular expressions, the XPath language, format specifiers, and frequently referenced .NET, COM, and WMI classes. Learn how to use PowerShell on Windows 10 and Windows Server 2019 Tour PowerShell's core features, including the command model, object-based pipeline, and ubiquitous scripting Master fundamentals such as the interactive shell, pipeline, and object concepts Perform common tasks that involve working with files, internet-connected scripts, user interaction, and more Solve tasks in systems and enterprise management, such as working with Active Directory and the filesystem

**Windows Server 2019 Automation with PowerShell Cookbook** Sep 10 2022 Automate Windows server tasks with the powerful features of the PowerShell Language Key FeaturesLeverage PowerShell to automate complex Windows server tasks Master new features such as DevOps, and containers, and speed up their performance using PowerShellImprove PowerShell's usability, and control and manage Windows-based environments by working through exciting recipesBook Description Windows Server 2019 represents the latest version of Microsoft's flagship server operating system. It also comes with PowerShell Version 5.1 and has a number of additional features that IT pros find useful. The book helps the reader learn how to use PowerShell and manage core roles, features, and services of Windows Server 2019. You will begin with creating a PowerShell Administrative Environment that has updated versions of PowerShell and the Windows Management Framework, updated versions of the .NET Framework, and third-party modules. Next, you will learn to use PowerShell to set up and configure Windows Server 2019 networking and also managing objects in the AD environment. You will also learn to set up a host to utilize containers and how to deploy containers. You will also be implementing different mechanisms for achieving desired state configuration along with getting well versed with Azure infrastructure and how to setup Virtual Machines, web sites, and shared files on Azure. Finally, you will be using some powerful tools you can use to diagnose and resolve issues with Windows Server 2019. By the end of the book, you will learn a lot of trips and tricks to automate your windows environment with PowerShell What you will learnPerform key admin tasks on Windows Server 2019Employing best practices for writing PowerShell scripts and configuring Windows Server 2019Use the .NET Framework to achieve administrative scriptingSet up VMs, websites, and shared files on AzureReport system performance using built-in cmdlets and WMI to obtain single measurementsKnow the tools you can use to diagnose and resolve issues with Windows ServerWho this book is for If you are a systems administrator, engineer, or an architect working with Windows Server 2016 interested in upgrading to Windows Server 2019 and automating tasks with PowerShell, then this book is for you. A basic knowledge of PowerShell is expected.

**Windows PowerShell Cookbook** Apr 05 2022 Do you know how to use Windows PowerShell to navigate the filesystem and manage files and folders? Or how to retrieve a web page? This introduction to the PowerShell language and scripting environment provides more than 430 task-oriented recipes to help you solve the most complex and pressing problems, and includes more than 100 tried-and-tested scripts that intermediate to advanced system administrators can copy and use immediately. You'll find hands-on tutorials on fundamentals, common tasks, and administrative jobs that you can apply whether you're on a client or server version of Windows. You also get quick references to technologies used in conjunction with PowerShell, including format specifiers and frequently referenced registry keys to selected .NET, COM, and WMI classes. With Windows PowerShell Cookbook, you'll get more done in less time. Take a tour of PowerShell's core features, including the command model, object-based pipeline, and ubiquitous scripting Learn PowerShell fundamentals such as the interactive shell and fundamental pipeline and object concepts Perform common tasks that involve working with files, Internet-connected scripts, user interaction, and more Solve tasks in systems and enterprise management, such as working with Active Directory, the filesystem, registry, event logs, processes, and services

**Learn Windows PowerShell 3 in a Month of Lunches** Nov 12 2022 Presents a guide on how to use Windows PowerShell to script Windows administrative tasks and control Windows from the command line.

**Windows Server Automation with PowerShell Cookbook** Jul 20 2023 Develop a holistic understanding of Windows Server with over 100 PowerShell recipes Key FeaturesUpdated with new recipes on the .NET Framework, enterprise server security, and managing Windows Server with WMI Learn PowerShell best practices to automate common tasks and manage AD, enterprise security, Azure, and .NET 5Discover new ways to optimize your PowerShell code by working through easy-to-follow recipesBook Description With a foreword from PowerShell creator Jeffrey Snover, this heavily updated edition is designed to help you learn how to use PowerShell 7.1 effectively and manage the core roles, features, and services of Windows Server in an enterprise setting. All scripts are compatible with both Windows Server 2022 and 2019. This latest edition equips you with over 100 recipes you'll need in day-to-day work, covering a wide range of fundamental and more advanced use cases. We look at how to install and configure PowerShell 7.1, along with useful new features and optimizations, and how the PowerShell compatibility solution bridges the gap to older versions of PowerShell. Topics include using PowerShell to manage networking and DHCP in Windows Server, objects in Active Directory, Hyper-V, and Azure. Debugging is crucial, so the book shows you how to use some powerful tools to diagnose and resolve issues with Windows Server. What you will learnPerform key admin tasks on Windows ServerKeep your organization secure with JEA, group policies, logs, and Windows DefenderUse the .NET Framework for administrative scriptingManage data and storage on Windows, including disks, volumes, and filesystemsCreate and configure Hyper-V VMs, implementing storage replication and checkpointsSet up virtual machines, websites, and shared files on AzureReport system performance using built-in cmdlets and WMI to obtain single measurementsApply the right tools and modules to troubleshoot and debug Windows ServerWho this book is for This book is for systems administrators, software architects, developers, or engineers working with Windows Server seeking to automate tasks more effectively with PowerShell 7.1. Basic knowledge of PowerShell is expected.

**Mastering PowerShell Scripting** Jun 26 2021 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, runspaces, and runspace pools to run code asynchronously Write .NET classes with ease within PowerShell Create and implement regular expressions in PowerShell scripts Make use of advanced techniques to define and restrict the behavior of parameters Who this book is for This book is for system administrators who want to automate and speed up their processes using PowerShell and Windows PowerShell. You'll need to know the basics of operating systems, but beginners with no prior experience with PowerShell will have no trouble following along.

**Practical Automation with PowerShell** Aug 17 2020 Take PowerShell beyond simple scripts and build time-saving automations for your team, your users, and the world. In Practical Automation with PowerShell you will learn how to: Build PowerShell functions to automate common and complex tasks Create smart automations that are adaptable to new challenges Structure your code for sharing and reusability Store and secure your automations Execute automations with Azure Automation, Jenkins, Task Scheduler, and Cron Share your automations with your team and non-technical colleagues Store and retrieve data, credentials, and variables Use source control solutions to maintain and test code changes Provide front-end UI solutions for PowerShell automations Practical Automation in PowerShell reveals how you can use PowerShell to build automation solutions for a huge number of common admin and DevOps tasks. Author Matthew Dowst uses his decades of experience to lay out a real blueprint for setting up an enterprise scripting environment with PowerShell. The book goes beyond the basics to show you how to handle the unforeseen complexities that can keep automations from becoming reusable and resilient. From the console to the cloud, you'll learn how to manage your code, avoid common pitfalls, and create sharable automations that are adaptable to different use cases. About the Technology The PowerShell scripting language is a force multiplier, giving you programmatic control over your whole data center. With this powerful tool, you can create reusable automations that radically improve consistency and productivity on your Ops team. This book shows you how to design, write, organize, and deploy scripts to automate operations on systems of all sizes, from local servers to enterprise clusters in the cloud. About the Book Practical Automation with PowerShell: Effective scripting from the console to the cloud shows you how to build PowerShell automations for local and cloud systems. In it, you'll find tips for identifying automatable tasks, techniques for structuring and managing scripts, and lots of well-explained example code. You'll even learn how to adapt existing scripts to new use cases and empower non-technical users through easy-to-understand SharePoint frontends. What's Inside Structure PowerShell code for sharing and reusability Store and secure your automations Execute automation with Azure Automation, Jenkins, Task Scheduler, and Cron Store and retrieve data, credentials, and variables Use source control solutions to maintain and test code changes About the Reader For sysadmin and IT professionals who manage backend systems. About the Author Matthew Dowst has over 15 years of experience in IT management and consulting. Table of contents PART 1 1 PowerShell automation 2 Get started automating PART 2 3 Scheduling automation scripts 4 Handling sensitive data 5 PowerShell remote execution 6 Making adaptable automations 7 Working with SQL 8 Cloud-based automation 9 Working outside of PowerShell 10 Automation coding best practices PART 3 11 End-user scripts and forms 12 Sharing scripts among a team 13 Testing your scripts 14 Maintaining your code

**Windows PowerShell Step by Step** Oct 31 2021 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 for Sysadmins** Jun 07 2022 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

**Mastering Windows Server 2019** Jul 16 2020 Enhance and secure your datacenter with the newest Microsoft server platform Key FeaturesDevelop necessary skills to design and implement Microsoft Server 2019 in enterprise environmentProvide support to your medium to large enterprise and leverage your experience in administering Microsoft Server 2019Effectively administering Windows server 2019 with the help of practical examplesBook Description Mastering Windows Server 2019 – Second Edition covers all of the essential information needed to implement and utilize this latest-and-greatest platform as the core of your data center computing needs. You will begin by installing and managing Windows Server 2019, and by clearing up common points of confusion surrounding the versions and licensing of this new product. Centralized management, monitoring, and configuration of servers is key to an efficient IT department, and you will discover multiple methods for quickly managing all of your servers from a single pane of glass. To this end, you will spend time inside Server Manager, PowerShell, and even the new Windows Admin Center, formerly known as Project Honolulu. Even though this book is focused on Windows Server 2019 LTSC, we will still discuss containers and Nano Server, which are more commonly related to the SAC channel of the server platform, for a well-rounded exposition of all aspects of using Windows Server in your environment. We also discuss the various remote access technologies available in this operating system, as well as guidelines for virtualizing your data center with Hyper-V. By the end of this book, you will have all the ammunition required to start planning for, implementing, and managing Windows. What you will learnWork with the updated Windows Server 2019 interface, including Server Core and Windows Admin CenterSecure your network and data with new technologies in Windows Server 2019Learn about containers and understand the appropriate situations to use Nano ServerDiscover new ways to integrate your data center with Microsoft AzureHarden your Windows Servers to help keep the bad guys outVirtualize your data center with Hyper-VWho this book is for If you are a

System Administrator or an IT professional interested in designing and deploying Windows Server 2019 then this book is for you. Previous experience of Windows Server operating systems and familiarity with networking concepts is required.

**PowerShell Core for Linux Administrators Cookbook** Jan 02 2022 Over 150 recipes to leverage Microsoft's open source automation framework and command line shell Key Features Work effectively on Windows, Linux, and macOS with PowerShell's object-oriented approach and capabilities Handle structured data seamlessly without the need for manual parsing Enhance your native Linux capabilities with PowerShell Core 6.1 Book Description PowerShell Core, the open source, cross-platform that is based on the open source, cross-platform .NET Core, is not a shell that came out by accident; it was intentionally created to be versatile and easy to learn at the same time. PowerShell Core enables automation on systems ranging from the Raspberry Pi to the cloud. PowerShell Core for Linux Administrators Cookbook uses simple, real-world examples that teach you how to use PowerShell to effectively administer your environment. As you make your way through the book, you will cover interesting recipes on how PowerShell Core can be used to quickly automate complex, repetitive, and time-consuming tasks. In the concluding chapters, you will learn how to develop scripts to automate tasks that involve systems and enterprise management. By the end of this book, you will have learned about the automation capabilities of PowerShell Core, including remote management using OpenSSH, cross-platform enterprise management, working with Docker containers, and managing SQL databases. What you will learn Leverage the object model of the shell, which is based on .NET Core Administer computers locally as well as remotely using PowerShell over OpenSSH Get to grips with advanced concepts of PowerShell functions Use PowerShell for administration on the cloud Know the best practices pertaining to PowerShell scripts and functions Exploit the cross-platform capabilities of PowerShell to manage scheduled jobs, Docker containers and SQL Databases Who this book is for PowerShell Core for Linux Administrators Cookbook is for you if you are a system administrator who wants to learn to control and automate a Linux environment with PowerShell Core 6.1. Basic knowledge of PowerShell scripting is necessary. It is assumed that you already understand how an operating system is structured and how to use the command-line interface to work with the operating system.

**Microsoft Exchange Server 2013 Powershell Cookbook** Feb 03 2022 This book is written in a Cookbook-style format and provides practical, immediately usable task-based recipes that show you how to manage and maintain your Microsoft Exchange Server 2013 environment with Windows PowerShell 3. Each chapter of the book is written so that it can be used as a desktop reference, or it can be read from beginning to end, allowing you to build a solid foundation for building scripts in your Exchange environment. This Cookbook is for messaging professionals who want to learn how to build real-world scripts with Windows PowerShell 3 and the Exchange Management Shell. If you are a network or systems administrator responsible for managing and maintaining Exchange Server 2013 you will find this highly useful. Only basic knowledge of Exchange Server and PowerShell are required to make the most of this book.

**Active Directory Administration Cookbook** Jan 22 2021 Learn the intricacies of managing Azure AD and Azure AD Connect, as well as Active Directory for administration on cloud and Windows Server 2019 Key Features Expert solutions for the federation, certificates, security, and monitoring with Active Directory Explore Azure AD and AD Connect for effective administration on cloud Automate security tasks using Active Directory and PowerShell Book Description Active Directory is an administration system for Windows administrators to automate network, security and access management tasks in the Windows infrastructure. This book starts off with a detailed focus on forests, domains, trusts, schemas and partitions. Next, you'll learn how to manage domain controllers, organizational units and the default containers. Going forward, you'll explore managing Active Directory sites as well as identifying and solving replication problems. The next set of chapters covers the different components of Active Directory and discusses the management of users, groups and computers. You'll also work through recipes that help you manage your Active Directory domains, manage user and group objects and computer accounts, expiring group memberships and group Managed Service Accounts (gMSAs) with PowerShell. You'll understand how to work with Group Policy and how to get the most out of it. The last set of chapters covers federation, security and monitoring. You will also learn about Azure Active Directory and how to integrate on-premises Active Directory with Azure AD. You'll discover how Azure AD Connect synchronization works, which will help you manage Azure AD. By the end of the book, you have learned about Active Directory and Azure AD in detail. What you will learn Manage new Active Directory features, such as the Recycle Bin, group Managed Service Accounts, and fine-grained password policies Work with Active Directory from the command line and use Windows PowerShell to automate tasks Create and remove forests, domains, and trusts Create groups, modify group scope and type, and manage memberships Delegate control, view and modify permissions Optimize Active Directory and Azure AD in terms of security Who this book is for This book will cater to administrators of existing Active Directory Domain Services environments and/or Azure AD tenants, looking for guidance to optimize their day-to-day effectiveness. Basic networking and Windows Server Operating System knowledge would come in handy.

**Windows PowerShell for .NET Developers** Apr 17 2023 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 in Action** Feb 15 2023 A guide to using Windows PowerShell to script Windows administrative tasks and control Windows from the command line.

**Learn PowerShell Toolmaking in a Month of Lunches** Jul 08 2022 Written by PowerShell MVPs Offers practical, real-world examples Teaches toolmaking from the ground up

**PowerShell for Office 365** Oct 19 2020 Learn the art of leveraging PowerShell to automate Office 365 repetitive tasks About This Book Master the fundamentals of PowerShell to automate Office 365 tasks. Easily administer scenarios such as user management, reporting, cloud services, and many more. A fast-paced guide that leverages PowerShell commands to increase your productivity. Who This Book Is For The book is aimed at sys admins who are administering office 365 tasks and looking forward to automate the manual tasks. They have no knowledge about

PowerShell however basic understanding of PowerShell would be advantageous. What You Will Learn Understand the benefits of scripting and automation and get started using Powershell with Office 365 Explore various PowerShell packages and permissions required to manage Office 365 through PowerShell Create, manage, and remove Office 365 accounts and licenses using PowerShell and the Azure AD Learn about using powershell on other platforms and how to use Office 365 APIs through remoting Work with Exchange Online and SharePoint Online using PowerShell Automate your tasks and build easy-to-read reports using PowerShell In Detail While most common administrative tasks are available via the Office 365 admin center, many IT professionals are unaware of the real power that is available to them below the surface. This book aims to educate readers on how learning PowerShell for Office 365 can simplify repetitive and complex administrative tasks, and enable greater control than is available on the surface. The book starts by teaching readers how to access Office 365 through PowerShell and then explains the PowerShell fundamentals required for automating Office 365 tasks. You will then walk through common administrative cmdlets to manage accounts, licensing, and other scenarios such as automating the importing of multiple users, assigning licenses in Office 365, distribution groups, passwords, and so on. Using practical examples, you will learn to enhance your current functionality by working with Exchange Online, and SharePoint Online using PowerShell. Finally, the book will help you effectively manage complex and repetitive tasks (such as license and account management) and build productive reports. By the end of the book, you will have automated major repetitive tasks in Office 365 using PowerShell. Style and approach This step by step guide focuses on teaching the fundamentals of working with PowerShell for Office 365. It covers practical usage examples such as managing user accounts, licensing, and administering common Office 365 services. You will be able to leverage the processes laid out in the book so that you can move forward and explore other less common administrative tasks or functions.

*Pro PowerShell for Microsoft Azure* May 06 2022 This book is written for Windows professionals who are familiar with PowerShell and want to learn to build, operate, and administer their Windows workloads in the Microsoft cloud. Pro PowerShell for Microsoft Azure is packed with practical examples and scripts, with easy-to-follow explanations for a wide range of day-to-day needs and essential administration tasks. Author Sherif Talaat begins by explaining the fundamental concepts behind the Microsoft Azure platform and how to get started configuring it through PowerShell. Readers will find out how to deploy, configure and manage the various components of the Azure platform, from storage and virtual networks to Azure Web Sites, HDInsight clusters and the Azure SQL Database. Workload automation, scheduling and resource management are covered in depth to help build efficiency in everyday tasks, and administrators will gain full control over Azure identity and access rights using Azure Active Directory and Rights Management Services. Put your PowerShell skills to good use and ensure that your applications and data are available anywhere at any time, with Pro PowerShell for Microsoft Azure. What You'll Learn Create and manage virtual networks and VPNs using PowerShell. Configure and maintain Azure Storage accounts, blobs, and containers. Provision and manage a redundant Windows or Linux server. Deploy and configure your sites in the cloud using Microsoft Azure Web Sites. Provision Apache Hadoop clusters in the cloud using Azure HDInsight. Deploy, configure and manage a Microsoft Azure SQL Database. Protect and secure identities and resources with Azure Active Directory and Azure Rights Management Services. Who This Book Is For This is book is for the intermediate to advanced Windows professional who is ready to make the leap to the cloud.

**PowerShell Cookbook** Jun 19 2023 How do you use PowerShell to navigate the filesystem, manage files and folders, or retrieve a web page? This introduction to the PowerShell language and scripting environment provides more than 400 task-oriented recipes to help you solve all kinds of problems. Intermediate to advanced system administrators will find more than 100 tried-and-tested scripts they can copy and use immediately. Updated for PowerShell 5, Open Source PowerShell up to 7 and beyond, this comprehensive cookbook includes hands-on recipes for common tasks and administrative jobs that you can apply whether you're on the client or server version of Windows. You also get quick references to technologies used in conjunction with PowerShell, including format specifiers and frequently referenced registry keys to selected .NET, COM, and WMI classes. Learn how to use PowerShell on Windows 10 and Windows Server 2019 Tour PowerShell's core features, including the command model, object-based pipeline, and ubiquitous scripting Master fundamentals such as the interactive shell, pipeline, and object concepts Perform common tasks that involve working with files, Internet-connected scripts, user interaction, and more Solve tasks in systems and enterprise management, such as working with Active Directory and the filesystem

**Mastering Windows PowerShell Scripting** Mar 24 2021 Grasp advanced PowerShell Core 6.0 functionalities to automate your environment Key Features Keep up with changes introduced in PowerShell Core 6.0 Easily maintain appropriate compatibility with older versions Automate complex tasks, manipulate data, and secure your environment with PowerShell Core 6.0 Book Description PowerShell scripts offer a handy way to automate various chores, however working effectively with these scripts can be a difficult task. This comprehensive guide starts with the fundamentals before moving on to advanced-level topics to help you become a PowerShell Core 6.0 expert. The first module, PowerShell Core 6.0 Fundamentals, begins with the new features of PowerShell Core 6.0, installing it on Linux, and working with parameters, objects and .NET classes from within PowerShell Core 6.0. As you make your way through the chapters, you'll see how to efficiently manage large amounts of data and interact with other services using PowerShell Core 6.0. You'll be able to make the most of PowerShell Core 6.0's powerful automation feature, where you will have different methods available to parse data and manipulate regular expressions and Windows Management Instrumentation (WMI). After having explored automation, you will enter the extending PowerShell Core 6.0 module, covering asynchronous processing and desired state configuration. In the last module, you will learn to extend PowerShell Core 6.0 using advanced scripts and filters, and also debug issues along with working on error handling techniques. By the end of this book, you will be an expert in scripting with PowerShell Core 6.0. What you will learn Optimize code through the use of functions, switches, and looping structures Work with objects and operators to test and manipulate data Parse and manipulate different data types Create scripts and functions using PowerShell Use jobs, events, and popular public modules which assist with implementing multithreading Write .NET classes with ease within the PowerShell Create and implement regular expressions in PowerShell scripts Make use of advanced techniques to define and restrict the behavior of parameters Who this book is for If you are a system administrator who wants to become an expert in controlling and automating your Windows environment, then Mastering Windows PowerShell Scripting is for you. It is also ideal for those new to the PowerShell language.

**Windows Server 2012 Hyper-V Cookbook** Jun 14 2020 "Windows Server 2012 Hyper-V Cookbook" is a practical cookbook packed with recipes showing and explaining all the features and components of Hyper-V. You'll learn from best practices, tips and tricks and examples of how to automate daily and common tasks. If you are an administrator who wants to master Microsoft Server Virtualization with Windows Server 2012 Hyper-V, then this book is for you. You should be comfortable with virtualization concepts and practices, and knowledge of previous versions of Windows Server would be an advantage.

**Learn PowerShell Scripting in a Month of Lunches** Aug 09 2022 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

*PowerShell in Depth* May 18 2023 Summary PowerShell in Depth, Second Edition is the go-to reference for administrators working with Windows PowerShell. Every major technique, technology, and tactic is carefully explained and demonstrated, providing a hands-on guide to almost everything an admin would do in the shell. Written by three experienced authors and PowerShell MVPs, this is the PowerShell book you'll keep next to your monitor—not on your bookshelf! Purchase of the print book includes a free eBook in PDF, Kindle, and ePub formats from Manning Publications. About the Book A Windows admin using PowerShell every day may not have the time to search the net every time he or she hits a snag. Wouldn't it be great to have a team of seasoned PowerShell experts ready to answer even the toughest questions? That's what you get with this book. PowerShell in Depth, Second Edition is the go-to reference for administrators working with Windows PowerShell. Every major technique, technology, and tactic is carefully explained and demonstrated, providing a hands-on guide to almost everything an admin would do in the shell. Written by PowerShell MVPs Don Jones, Jeffrey Hicks, and Richard Siddaway, each valuable technique was developed and thoroughly tested, so you'll be able to consistently write production-quality, maintainable scripts while saving hours of time and effort. This book assumes you know the basics of PowerShell. What's Inside Automating tasks Packaging and deploying scripts Introduction to Desired State Configuration PowerShell security Covers PowerShell version 3 and later About the Authors Don Jones, Jeffery Hicks, and Richard Siddaway are Microsoft MVPs, trainers, and administrators. Collectively, they've authored nearly three dozen books on PowerShell and Windows administration. Table of Contents PART 1 POWERSHELL FUNDAMENTALS Introduction PowerShell hosts Using the PowerShell help system The basics of PowerShell syntax Working with PSSnapins and modules Operators Working with objects The PowerShell pipeline Formatting PART 2 POWERSHELL MANAGEMENT PowerShell Remoting Background jobs and scheduling Working with credentials Regular expressions Working with HTML and XML data PSDrives and PSProviders Variables, arrays, hash tables, and script blocks PowerShell security Advanced PowerShell syntax PART 3 POWERSHELL SCRIPTING AND AUTOMATION PowerShell's scripting language Basic scripts and functions Creating objects for output Scope PowerShell workflows Advanced syntax for scripts and functions Script modules and manifest modules Custom formatting views Custom type extensions Data language and internationalization Writing help Error handling techniques Debugging tools and techniques Functions that work like cmdlets Tips and tricks for creating reports PART 4 ADVANCED POWERSHELL Working with the Component Object Model (COM) Working with .NET Framework objects Accessing databases Proxy functions Building a GUI WMI and CIM Working with the web Desired State Configuration

*Windows PowerShell Cookbook* Aug 21 2023 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.

**Practical PowerShell Exchange Server 2016 - Second Edition** Dec 01 2021 Covers all the major changes and updates that have occurred in Exchange 2016 since CU2 Key Features Explore the breadth of Exchange Server 2016 Discover new ways to write powerful PowerShell scripts Learn best practices to manage exchange servers effectively Book Description This book sharpens your PowerShell scripting skills, providing you with all the essential tips and tricks needed to handle Exchange Server 2016. The book begins with PowerShell interface and important concepts for building, enhancing, and testing PowerShell scripts for Exchange Server 2016. You will then manage servers, email flow, devices, and users, and create public folders to simplify information-sharing within an organization. The book concludes with an overview of the latest updates and changes in Exchange 2016 and best practices for the effective management of PowerShell. By the end of the book, you will be ready to use PowerShell to manage Exchange Servers. What you will learn Write usable PowerShell scripts using capitalization and bracketing Remotely connect to Exchange servers with PowerShell connections Use certificates in PowerShell to secure Exchange servers Use PowerShell to create, delete, and configure databases Prevent overloading of messages with PowerShell Write clean code by applying best practices Who this book is for This book is ideal for those who want to build upon general skills and write more powerful PowerShell scripts to manage Exchange Server 2016. Basic knowledge of PowerShell is recommended.

*Windows PowerShell for Developers* Dec 21 2020 Want to perform programming tasks better, faster, simpler, and make them repeatable? Take a deep dive into Windows PowerShell and discover what this distributed automation platform can do. Whether you're a .NET developer or IT pro, this concise guide will show you how PowerShell's scripting language can help you be more productive on everyday tasks. Quickly learn how to create PowerShell scripts and embed them into your existing applications, write "little languages" to solve specific problems, and take charge of your code. This book includes example scripts that you can easily pull apart, tweak, and then use in your own PowerShell and .NET solutions. Slice and dice text, XML, CSV, and JSON with ease Embed PowerShell to provide scripting capabilities for your C# apps Create GUI applications five to ten times faster with less code Leverage PowerShell's capabilities to work with the Internet Interact with DLLs and create objects, automatically display properties, and call methods in live interactive sessions Build domain-specific languages (DSLs) and vocabularies to express solutions more clearly Work with Microsoft Office via the Component Object Model (COM) Discover PowerShell v3 features included with Windows 8 and Windows Server 2012

**Windows Server 2016 Automation with PowerShell Cookbook** Sep 29 2021 Over 100 recipes to help you leverage PowerShell to automate Windows Server 2016 manual tasks About This Book Automate Windows server tasks with the powerful features of the PowerShell Language Master new features such as DevOps, containers, and Nano servers, and speed up their performance using PowerShell Improve PowerShell's usability, and control and manage Windows-based environments by working through inviting recipes Who This Book Is For If you are a systems administrator, engineer, or an architect working with Windows Server 2016 and want to automate tasks with PowerShell, then this book is for you. A basic knowledge of PowerShell is expected. What You Will Learn Streamline routine administration processes Improve the performance and storage of your Windows server with enhanced large-scale PowerShell scripts Use DSC to leverage Windows server features Generate automatic reports that highlight unexpected changes in your environment Monitor performance and report on system utilization using detailed graphs and analysis Create and manage a reliable and redundant Hyper-V environment Manage your enterprise's patch level Utilize multiple tools and protocols to manage your environment In Detail This book showcases several ways that Windows administrators can use to automate and



streamline their job. You'll start with the PowerShell and Windows Server fundamentals, where you'll become well versed with PowerShell and Windows Server features. In the next module, Core Windows Server 2016, you'll implement Nano Server, manage Windows updates, and implement troubleshooting and server inventories. You'll then move on to the Networking module, where you'll manage Windows network services and network shares. The last module covers Azure and DSC, where you will use Azure on PowerShell and DSC to easily maintain Windows servers. Style and approach This is a practical guide packed with attractive recipes to help you effectively use PowerShell to accelerate your daily administrative tasks with Windows server.

**Microsoft Exchange Server 2016 PowerShell Cookbook** Nov 19 2020 Make the most of PowerShell's features to manage all aspects of your Exchange Server 2016 environment. About This Book Learn to integrate PowerShell with Exchange Server 2016 Write scripts and functions to run tasks automatically, and generate complex reports with PowerShell Use these effective recipes to learn all popular and important Powershell scripts to manage tasks and avoid errors Who This Book Is For This book is for messaging professionals who want to build real-world scripts with Windows PowerShell and the Exchange Management Shell. You'll also find it indispensable if you're a network or systems administrator responsible for managing and maintaining Exchange Server 2016. What You Will Learn Master the new features and capabilities of PowerShell and Exchange Server 2016 Get to grips with the core PowerShell concepts Use simple PowerShell scripts and commands to get powerful results Generate detailed reports, send the output of commands by email , and schedule scripts to run automatically Import, export, and move mailboxes, and delete messages from mailboxes using the command line Configure transport server settings such as mail relay, tracking logs, transport rules, delivery reports, and more Manage mailbox and public folders Monitor the health of an Exchange environment through built-in cmdlets and other methods Integrate Exchange with Office Online Server, Skype for Business Server, and Exchange Online (Office 365) In Detail We start with a set of recipes on core PowerShell concepts. This will provide you with a foundation for the examples in the book. Next, you'll see how to implement some of the common exchange management shell tasks, so you can effectively write scripts with this latest release. You will then learn to manage Exchange recipients, automate recipient-related tasks in your environment, manage mailboxes, and understand distribution group management within the Exchange Management Shell. Moving on, we'll work through several scenarios where PowerShell scripting can be used to increase your efficiency when managing databases, which are the most critical resources in your Exchange environment. Towards the end, you'll discover how to achieve Exchange High Availability and how to secure your environment, monitor the health of Exchange, and integrate Exchange with Office Online Server, Skype for Business Server, and Exchange Online (Office 365). By the end of the book, you will be able to perform administrative tasks efficiently. Style and approach This practical guide is packed with handy recipes to help you perform common administration tasks, as well as complex tasks in Exchange Server, without any hassle.

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