Windows Powershell Cookbook The Complete Guide To Scripting Microsofts Command Shell

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.

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

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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.

Over 100 PowerShell recipes for working more effectively with Windows Server 2022/2019 Key Features: Develop a holistic understanding of Windows Server 2022/2019 with PowerShell 7.1 Learn best practices for PowerShell scripting to

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automate common tasks and manage AD, enterprise security, WMI, Azure, and .NET 5 Discover new ways to optimize your PowerShell code by working through easy-to-follow recipes Book 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 2022/2019 in an enterprise setting. Brand new to this edition are recipes exploring the .NET Framework, enterprise server security, and managing Windows Server with Windows Management Instrumentation (WMI). 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 Learn: Perform key admin tasks on Windows Server 2022/2019 Keep your organization secure with JEA, group policies, logs, and Windows Defender Use the .NET Framework for administrative scripting Manage data and storage on Windows, including disks, volumes, and filesystems Create and configure Hyper-V VMs, implementing storage replication and checkpoints Set up virtual

machines, websites, and shared files on Azure Report system performance using built-in cmdlets and WMI to obtain single measurements Apply the right tools and modules to troubleshoot and debug Windows Server Who this book is for: This book is for systems administrators, software architects, developers, or engineers working with Windows Server 2022/2019 seeking to automate tasks more effectively with PowerShell 7.1. Basic knowledge of PowerShell is expected.

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.

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

also comes with PowerShell Version 5.1 and has a number of additional features that IT pros find useful. The book helps the reader learn how to use PowerShell and manage core roles, features, and services of Windows Server 2019. You will begin with creating a PowerShell Administrative Environment that has updated versions of PowerShell and the Windows Management Framework, updated versions of the .NET Framework, and third-party modules. Next, you will learn to use PowerShell to set up and configure Windows Server 2019 networking and also managing objects in the AD environment. You will also learn to set up a host to utilize containers and how to deploy containers. You will also be implementing different mechanisms for achieving desired state configuration along with getting well versed with Azure infrastructure and how to setup Virtual Machines, web sites, and shared files on Azure. Finally, you will be using some powerful tools you can use to diagnose and resolve issues with Windows Server 2019. By the end of the book, you will learn a lot of trips and tricks to automate your windows environment with PowerShell What you will learn Perform key admin tasks on Windows Server 2019 Employing best practices for writing PowerShell scripts and configuring Windows Server 2019 Use the .NET Framework to achieve administrative scripting Set up VMs, websites, and shared files on Azure Report system performance using built-in cmdlets and WMI to obtain single measurements Know the tools you can use to diagnose and resolve issues with Windows Server Who this book is for If you are a systems administrator, engineer, or an architect working with Windows Server 2016

interested in upgrading to Windows Server 2019 and automating tasks with PowerShell, then this book is for you. A basic knowledge of PowerShell is expected.

Written by Microsoft PowerShell team member Lee Holmes, and excerpted from his "PowerShell Cookbook", this pocket reference offers up-to-date coverage of PowerShell's latest release. You'll find information on .NET classes and legacy management tools that you need to manage your system, along with chapters on how to write scripts, manage errors, format output, and much more. Applicable whether you work on the client or server version of Windows or use PowerShell on another system.

"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.

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.

If you work on a daily basis with Windows Server 2012, this book will make life easier by teaching you the skills to automate server tasks with PowerShell scripts, all delivered in recipe form for rapid implementation. Overview Extend the capabilities of your Windows environment. Improve the process reliability by using well defined PowerShell scripts. Full of examples, scripts, and real-world best practices. In Detail Automating server tasks allows administrators to repeatedly perform the same, or similar, tasks over and over again. With PowerShell scripts, you can automate server tasks and reduce manual input, allowing you to focus on more important tasks. Windows Server 2012 Automation with PowerShell will show several ways for a Windows administrator to automate and streamline his/her job. Learn how to automate server tasks to ease your day-to-day operations, generate performance and configuration reports, and troubleshoot and resolve critical problems. Windows Server 2012 Automation with PowerShell will introduce you to the advantages of using Windows Server 2012 and PowerShell. Each recipe is a building block that can easily be combined to provide larger and more useful scripts to automate your systems. The recipes are packed with examples and real world experience to make the job of managing and administrating Windows servers easier. The book begins with automation of common Windows Networking components such as AD, DHCP, DNS, and PKI, managing Hyper-V, and backing up the server environment. By the end of the book you will be able to use

PowerShell scripts to automate tasks such as performance monitoring, reporting, analyzing the environment to match best practices, and troubleshooting. What you will learn from this book Streamline routine administration processes. Automate the implementation of entire AD infrastructures. Generate automatic reports that highlight unexpected changes in your environment. Monitor performance and report on system utilization in detailed graphs and analysis. Create and manage a reliable and redundant Hyper-V environment. Utilize the Best Practices Analyzer from Microsoft to ensure your environment is configured optimally. Manage the patch level of your enterprise. Utilize multiple protocols to share information in a heterogeneous environment. Approach Cookbook with recipes based on real life examples. Who this book is written for This book is written to assist the daily tasks for systems administrators, engineers, and architects working with Windows Server 2012.

Windows PowerShell CookbookThe Complete Guide to Scripting Microsoft's Command Shell"O'Reilly Media, Inc."

Microsoft Exchange Server 2013 is a complex messaging system. Windows PowerShell 5 can be used in conjunction with Exchange Server 2013 to automate and manage routine and complex tasks to save time and money and eliminate errors. Starting by going through key PowerShell concepts and the Exchange Management Shell, this book will get you automating tasks that used to take hours in no time. Diving deeper, you will then manage your mailbox database, client access, and your transport

servers with simple but effective scripts. This book finishes with advanced recipes on Exchange Server problems, such as managing distribution groups and maintaining high availability and security.

This portable reference to PowerShell summarizes the command shell and scripting language and provides a concise guide to the many tasks that make PowerShell so useful. If you're a busy administrator and don't have time to plow through huge books or in-depth online searches, this is the ideal on-the-job tool. Written by PowerShell team member Lee Holmes and excerpted from his PowerShell Cookbook, this edition offers up-to-date coverage of Windows PowerShell 5.1 and open source PowerShell Core up to 7 and beyond. Beginning with a guided tour of PowerShell, this handy guide covers: PowerShell language and environment Regular expression reference XPath quick reference .NET string formatting .NET DateTime formatting Selected .NET classes and their uses WMI reference Selected COM objects and their uses Standard PowerShell verbs

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

"PowerShell Tutorial Volume 1" teaches you Windows PowerShell - takes your PowerShell skills from zero to Pro level. Fully hands-on with step-by-step labs! Why You Should Read PowerShell Tutorial Volume 1 This volume has 7 tutorials. At the end

of each tutorial, you would have learnt an essential PowerShell concept. Each Tutorial also contains a step by step lab so you can practice as you learn. Each PowerShell tutorial is independent but builds on the knowledge of the previous tutorial. What is in PowerShell Tutorial Volume 1? POWERSHELL TUTORIAL 1: Introduction to PowerShell and Cmdlets: Tutorial 1 Introduces PowerShell and PowerShell cmdlets. It then teaches you how to find cmdlets using the Get-Command cmdlet.Tutorial 1 also discusses cmdlet parameters and Aliases.POWERSHELL TUTORIAL 2: Getting help with the Get-Help cmdlet: Tutorial 2 focuses on the Get-Help Command. It teaches you how to use the Get-Help command to get information about cmdlets. Tutorial 2 also covers how to understand cmdlet syntaxes from the results of the Get-Help command. POWERSHELL TUTORIAL 3: Variables and Pipelines: Tutorial 3 introduces you to PowerShell variables, one of the most important concepts in PowerShell scripting. It covers different types of variables and how you can use them in scripting. Tutorial 3 also covers PowerShell Pipelines and how to use them.POWERSHELL TUTORIAL 4: Introduction to Scripts and Functions: Tutorial 4 Introduces you to Scripts, Functions and Modules. It teaches you how to write Scripts, Functions and Modules. It also teaches you the difference between them. Tutorial 4 also covers PowerShell File Extensions; the default location for PowerShell modules and how you install PowerShell modules. POWERSHELL TUTORIAL 5: Commenting and Breaking scripts: Tutorial 5 teaches you How to add Comments to your Script; it shows you how to break (stop

executing) scripts using the 'Break' statement. Tutorial 5 also teaches you how and why you should use the 'Escape' (Backtick) Character in PowerShell scripting. It also shows you how to use this very important character in PowerShell scripting.POWERSHELL TUTORIAL 6: PowerShell Operators: Tutorial 6 teaches you PowerShell Operators. Understanding PowerShell Operators is very important to your scripting career. Tutorial 6 teaches you about Comparison, Arithmetic, Logical, Split, Join, Redirection and Assignment Operators. Tutorial 6 also teaches you detailed application of the listed operators with examples.POWERSHELL TUTORIAL 7: Introduction to Object Properties: Tutorial 7 (the last in Volume 1) introduces you to Object Properties, another very important concept! This tutorial teaches you how to access PowerShell object properties using variables. Tutorial 7 also teaches you about Objects 'MemberTypes' and their applications in scripting. Finally, Tutorial 7 explores the Get-Member Cmdlet in detail and shows you how to manipulate object properties using this powerful cmdlet. Connect with PowerShell Tutorial Book Series Twitter.com/PowerShellDIY facebook.com/PowerShellTutorialBook Get your copy of "PowerShell Tutorial Volume 1" at this discounted price Tags: Powershell Scripting, Powershell In Depth, Powershell Cookbook, Windows Powershell, Windows PowerShell 4.0, windows PowerShell for developers, windows PowerShell in action, Powershell 5, Powershell 5.0, PowerShell For Beginners, PowerShell step by step 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 PowersShell 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 effic ...

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objects in the AD environment. You will also learn to set up a host to utilize containers and how to deploy containers. You will also be implementing different mechanisms for achieving desired state configuration along with getting well versed with Azure infrastructure and how to setup Virtual Machines, web sites, and shared files on Azure. Finally, you will be using some powerful tools you can use to diagnose and resolve issues with Windows Server 2019. By the end of the book, you will learn a lot of trips and tricks to automate your windows environment with PowerShell What you will learn Perform key admin tasks on Windows Server 2019 Employing best practices for writing PowerShell scripts and configuring Windows Server 2019 Use the .NET Framework to achieve administrative scripting Set up VMs, websites, and shared files on Azure Report system performance using built-in cmdlets and WMI to obtain single measurements Know the tools you can use to diagnose and resolve issues with Windows Server Who this book is for If you are a systems administrator, engineer, or an architect working with Windows Server 2016 interested in upgrading to Windows Server 2019 and automating tasks with PowerShell, then this book is for you. A basic knowledge of PowerShell is expected. Downloading the example code for this book You can download the example code files for all Packt books you have purchased from your account at http://www.Pack ...

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Manage and maintain your Microsoft Exchange 2010 environment with Windows

PowerShell 2.0 and the Exchange Management Shell.

This portable reference to PowerShell summarizes the command shell and scripting language and provides a concise guide to the many tasks that make PowerShell so useful. If you're a busy administrator and don't have time to plow through huge books or in-depth online searches, this is the ideal on-the-job tool. Written by PowerShell team member Lee Holmes and excerpted from his PowerShell Cookbook, this edition offers up-to-date coverage of Windows PowerShell 5.1 and open source PowerShell Core up to 7 and beyond. Beginning with a guided tour of PowerShell, this handy guide covers: PowerShell language and environment Regular expression reference XPath quick reference .NET string formatting .NET DateTime formatting Selected .NET classes and their uses WMI reference Selected COM objects and their uses Standard PowerShell verbs.

This cookbook will help you gain command of PowerShell 7.1 to manage the core roles, features, and services within Windows Server 2022 and 2019. Thomas Lee provides an expansive view of the functionality made possible in PowerShell's latest major release.

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.

This Cookbook by Windows PowerShell team developer Lee Holmes provides hundreds of tested scripts that you can use right away to get Microsoft's new tool working for you. More than 150 recipes, combined with a concise task-based introduction to the Windows PowerShell scripting language and environment, make it the perfect look-up guide when you encounter a thorny problem, or need a quick solution. The ideal companion to any tutorial or reference, this book meets the needs of system administrators at any level. Microsoft has revolutionized the world of system management and command-line shells with its release of Windows PowerShell, and Lee Holmes gives you practical tools and inside advice that will make you a more productive user and administrator. You will be able to solve everything from automating routine tasks, working with files, event logs and other forms of structured data, to managing the users and resources of complex Windows networks. Each recipe includes a focused piece of code plus discussion of how and why it works, so that you can apply the solution to similar tasks. You get an array of recipes covering PowerShell fundamentals, common tasks, and administrator tasks, including: Pipelines, variables, objects, looping and flow control, strings and unstructured text, calculations and math Simple files; structured files; Internet-enabled scripts; code

reuse; lists, arrays and hashtables; user feedback; error management; environmental awareness; script signing; and more Files and directories, registry manipulation, comparing data, event logs, process cmdlets, service cmdlets, Active Directory, enterprise computer management, and more Those who administer Microsoft's Exchange 2007 and System Center Operations Manager (formerly MOM) will also benefit from this book, with separate chapters devoted to these servers. All Windows administrators will appreciate the appendices that include a PowerShell language quick reference, and a reference to the .NET, WMI and COM objects that PowerShell scripters will use often. With working scripts, tutorials, and references all in one volume, Windows PowerShell Cookbook will turbocharge the productivity of any Windows administrator. Over 60 recipes to install, configure, and manage your IIS 10.0 About This Book Provide a secure, easy-to-manage extensible platform for hosting your websites Leverage IIS 10.0 in order to deploy web site in seconds Integrate Windows and Nano Server 2016 and automate it with PowerShell Recipes to Manage and monitor your IIS 10.0 Who This Book Is For If you are an administrator or web developer with a basic (or no) knowledge of Microsoft IIS and want to set up your own web server, then this is the book for you. What You Will Learn Integrate IIS 10.0 on Windows server 2016 Host multiple websites and Wildcard Host on IIS

10.0 Deploy and administrate IIS 10.0 on Nano Server. IIS administration with Powershell. Manage and troubleshoot IIS 10.0 In Detail This book will start with customizing your IIS 10 to various platforms/OS and tune it according to your business requirements. Moving on, we will focus on the functionalities of core fundamentals and perform practical scenarios in order to maximize the use of a reliable web server. Going further we will be covering topics like IIS 10 architecture, IIS modules,hosting web server platforms, virtual directories along with web site deployment, ports, enhanced security. We will also cover new features of IIS 10 like integration with Windows Server 2016 and Nano Server, HTTP/2, PowerShell 5 cmdlets etc . Towards the end, we will cover troubleshooting & diagnostic techniques of IIS 10. By the end of this book you will be well versed with maximizing the reliability of your webserver and will have immense knowledge in using IIS 10 effectively Style and approach A set of exciting recipes on using Microsoft IIS 10.0 effectively..

Make use of hands-on recipes for many tasks that are typically encountered in both the on-premises as well as the cloud world. Key Features A recipe-based guide to help you build effective administrative solutions Gain hands-on experience with the newly added features of PowerShell Core Manage critical business environments with professional scripting practices Book Description

This book will follow a recipe-based approach and start off with an introduction to the fundamentals of PowerShell, and explaining how to install and run it through simple examples. Next, you will learn how to use PowerShell to access and manipulate data and how to work with different streams as well. You will also explore the object model which will help with regard to PowerShell function deployment. Going forward, you will get familiar with the pipeline in its different use cases. The next set of chapters will deal with the different ways of accessing data in PowerShell. You will also learn to automate various tasks in Windows and Linux using PowerShell Core, as well as explore Windows Server. Later, you will be introduced to Remoting in PowerShell Core and Just Enough Administration concept. The last set of chapters will help you understand the management of a private and public cloud with PowerShell Core. You will also learn how to access web services and explore the high-performance scripting methods. By the end of this book, you will gain the skills to manage complex tasks effectively along with increasing the performance of your environment. What you will learn Leverage cross-platform interaction with systems Make use of the PowerShell recipes for frequent tasks Get a better understanding of the inner workings of PowerShell Understand the compatibility of built-in Windows modules with PowerShell Core Learn best practices associated with PowerShell scripting Avoid common pitfalls

and mistakes Who this book is for This book will be for windows administrators who want to enhance their PowerShell scripting skills to the next level. System administrators wanting to automate common to complex tasks with PowerShell scripts would benefit from this book. Prior understanding on PowerShell would be necessary.

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Introduces you to Scripts, Functions and Modules. It teaches you how to write Scripts, Functions and Modules. It also teaches you the difference between them. Tutorial 4 also covers PowerShell File Extensions; the default location for PowerShell modules and how you install PowerShell modules. POWERSHELL TUTORIAL 5: Commenting and Breaking scripts: Tutorial 5 teaches you How to add Comments to your Script; it shows you how to break (stop executing) scripts using the 'Break' statement. Tutorial 5 also teaches you how and why you should use the 'Escape' (Backtick) Character in PowerShell scripting. It also shows you how to use this very important character in PowerShell scripting. POWERSHELL TUTORIAL 6: PowerShell Operators: Tutorial 6 teaches you PowerShell Operators. Understanding PowerShell Operators is very important to your scripting career. Tutorial 6 teaches you about Comparison, Arithmetic, Logical, Split, Join, Redirection and Assignment Operators. Tutorial 6 also teaches you detailed application of the listed operators with examples. POWERSHELL TUTORIAL 7: Introduction to Object Properties: Tutorial 7 (the last in Volume 1) introduces you to Object Properties, another very important concept! This tutorial teaches you how to access PowerShell object properties using variables. Tutorial 7 also teaches you about Objects 'MemberTypes' and their applications in scripting. Finally, Tutorial 7 explores the Get-Member Cmdlet in detail and shows

you how to manipulate object properties using this powerful cmdlet. Connect with PowerShell Tutorial Book Series Twitter.com/PowerShellDIY facebook.com/PowerShellTutorialBook Get your copy of "PowerShell Tutorial Volume 1" at this discounted price Tags: Powershell Scripting, Powershell In Depth, Powershell Cookbook, Windows Powershell, Windows PowerShell 4.0, windows PowerShell for developers, windows PowerShell in action, Powershell 5, Powershell 5.0, PowerShell For Beginners, PowerShell step by step 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 PowersShell scripts to manage tasks and avoid errorsWho This Book Is ForThis 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 DetailWe 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 approachThis 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.

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.

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

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 ???,???

So you've got Active Directory and PowerShell... how do you make them work together? How do you add 500 new user accounts complete with group membership using only a few commands? How do you find all your obsolete computer accounts and move them to another OU? How do you create a report of all your empty groups? Find out in Managing Active Directory with Windows PowerShell: TFM 2 nd Ed. You'll not only learn about managing Active Directory users and groups with PowerShell, but also computer accounts, group policy, Active

Directory infrastructure and more. Revised and expanded with over 85% new material, coverage includes PowerShell solutions from Microsoft, Quest Software, and SDM Software as well as "out of the box" PowerShell features like the [ADSI] type adapter. Inside you'll find plenty of real-world and practical examples, including complete scripts you can use right now to get your job done faster and more efficiently! This book is not only the definitive guide to managing Active Directory, but also local directory services. Need to manage the local administrator account on 1000 servers? Need to find out who belongs to the local Administrators group on those 1000 servers? You can easily accomplish these tasks and more with PowerShell right from your desktop. Managing Active Directory with Windows PowerShell: TFM 2 nd Edition can be used as a reference "cookbook" or read cover to cover as a thorough tutorial led by a Windows PowerShell MVP and Active Directory expert.PowerShell IS the Microsoft Windows management tool of today, so what are you waiting for?
Microsoft SharePoint 2010 and Windows PowerShell 2.0: Expert Cookbook is a concise and above all advanced cookbook, with practical expert recipes for SharePoint and PowerShell automation. If you are a SharePoint administrator or IT Pro who wants to extend your knowledge of PowerShell automation, this book is a must have. You should have a solid grasp of working with SharePoint and PowerShell respectively.
Windows PowerShell transformed the way administrators and developers interact with Windows. PowerShell, an elegant dynamic language from Microsoft, lets its users script administrative tasks and control Windows from the command line. Because it's a full-featured, first-class Windows programming language, programmers and power- users can now do things in a shell that previously required VB, VBScript, or C#. Windows PowerShell in Action, Third

Edition is a completely revised edition of the bestselling book on PowerShell. It keeps the same crystal-clear introduction to PowerShell as the last edition and adds extensive coverage of v3, v4, and v5 features such as PowerShell Workflows, Desired State Configuration, PowerShell classes and the PowerShell APIs, new error handling and debugging features. It includes full chapters on these topics and also covers new language elements and operators, PowerShell remoting, CIM, events, working with data such as XML and flat files, The Second Edition's coverage of batch scripting and string processing, COM, WMI, and .NET have all been significantly revised and expanded. The book includes many popular usage scenarios and is rich in interesting examples that will spark the reader's imagination. Purchase of the print book includes a free eBook in PDF, Kindle, and ePub formats from Manning Publications. Take the guesswork out of deploying, administering, and automating Active Directory. With hundreds of proven recipes, the updated edition of this popular cookbook provides quick, step-by-step solutions to common (and not so common) problems you might encounter when working with Microsoft's network directory service. This fourth edition includes troubleshooting recipes for Windows Server 2012, Windows 8, and Exchange 2013, based on valuable input from Windows administrators. You'll also find quick solutions for the Lightweight Directory Access Protocol (LDAP), Active Directory Lightweight Directory Services (AD LDS), multi-master replication, DNS, Group Policy, and many other features. Manage new AD features, such as the Recycle Bin, Group Managed Service Accounts, and fine-grained password policies Work with AD from the command line and use Windows PowerShell to automate tasks Remove and create forests, domains, and trusts Create groups, modify group scope and type, and manage membership Delegate control, view and modify permissions, and handle

Kerberos tickets Import and export data with LDAP Data Interchange Format (LDIF) Synchronize multiple directories and enforce data integrity within a single or multiple stores Back up AD, and perform authoritative and non-authoritative restores

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