



Microsoft Exchange Server PowerShell Cookbook

Third Edition

Over 120 recipes to help you manage and administrate Exchange Server 2013 Service Pack 1 with PowerShell 5

Jonas Andersson

Mike Pfeiffer

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Microsoft Exchange Server Powershell Cookbook Third Edition

Thomas Lee,Jeffrey Snover

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Microsoft Exchange Server PowerShell Cookbook - Third Edition Jonas Andersson, Mike Pfeiffer, 2015-07-29 About This Book Explore the new features and capabilities of PowerShell 5 and its integration with Exchange Server 2013 Learn how to write scripts and functions schedule scripts to run automatically and generate complex reports with PowerShell Manage and automate every element of Exchange Server 2013 with PowerShell such as Mailboxes distribution groups and Address lists Who This Book Is For This book is for messaging professionals who want to build real world scripts with Windows PowerShell 5 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 What You Will Learn New features and capabilities of PowerShell 5 and Exchange Server 2013 SP1 Get to grips with the core PowerShell concepts required to master the Exchange Management Shell such as pipelining working with objects formatting output and writing scripts Use simple PowerShell scripts and commands to get powerful effects Generate detailed reports send the output of commands in e mail messages and schedule scripts to run automatically Import export 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 folder databases In Detail 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

Microsoft Exchange Server 2016 PowerShell Cookbook Jonas Andersson, Nuno Mota, Mike Pfeiffer, 2017-07-14 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 *Microsoft Exchange Server PowerShell Cookbook* Jonas Andersson, Mike Pfeiffer, 2015-07-29

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 [AWS Tools for PowerShell 6](#)

Ramesh Waghmare, 2017-08-03 Leverage the power of PowerShell to bring the best out of your AWS infrastructure About This Book A collection of real world tested Powershell scripts that can be used to manage your Windows server efficiently Follow step by step processes to solve your problems with Windows servers using AWS tools Design examples that work in the Amazon free usage tier which lets you run the Windows platform on cloud Who This Book Is For This book will be useful for but not limited to Windows System administrators cloud engineers architects DevOps engineers and all those who want to accomplish tasks on the AWS Public Cloud using PowerShell What You Will Learn Install the AWS Tools for PowerShell 6 Understand key services provided by Amazon Web services AWS Understand the Virtual Private Cloud Use PowerShell 6 for AWS Identity and Access Management IAM Use PowerShell 6 for AWS Elastic Compute Cloud EC2 Use PowerShell 6 for AWS Simple Storage Service S3 Use PowerShell 6 for AWS Relational Database Service RDS Build fault tolerant and highly available applications using PowerShell 6 In Detail AWS Tools for PowerShell 6 shows you exactly how to automate all the aspects of AWS You can take advantage of the amazing power of the cloud yet add powerful scripts and

mechanisms to perform common tasks faster than ever before. This book expands on the Amazon documentation with real world useful examples and production ready scripts to automate all the aspects of your new cloud platform. It will cover topics such as managing Windows with PowerShell, setting up security services, administering database services and deploying and managing networking. You will also explore advanced topics such as PowerShell authoring techniques and configuring and managing storage and content delivery. By the end of this book you will be able to use Amazon Web Services to automate and manage Windows servers. You will also have gained a good understanding of automating the AWS infrastructure using simple coding style and approach. This step by step guide starts with simple examples then expands to full blown administrative tasks leading to the efficient management of Windows servers. Each topic covers a section related to Amazon Web Services products and the examples are built on one another to deliver a comprehensive library of scripts for administrators.

Learning PowerShell DSC James Pogran, 2017-09-11 A learning guide to get you started with PowerShell DSC. Key Features: Create flexible and maintainable deployments using DSC configuration scripts that stand the test of time. Explore the core architecture concepts and practices in depth. Learning PowerShell DSC is a step by step guide that shows you how to start using and taking advantage of PowerShell DSC along with configuring and deploying applications. Book Description: The main goal of this book is to teach you to configure, deploy and manage your system using the new features of PowerShell v5/v6 DSC. This book begins with the basics of PowerShell Desired State Configuration, covering its architecture and components. It familiarizes you with the set of Windows PowerShell language extensions and new Windows PowerShell commands that make up DSC. Then it helps you create DSC custom resources and work with DSC configurations with the help of practical examples. Finally, it describes how to deploy configuration data using PowerShell DSC. Throughout this book, we will be focusing on concepts such as building configurations with parameters, the local configuration manager and testing and restoring configurations using PowerShell DSC. By the end of the book, you will be able to deploy a real world application end-to-end and will be familiar enough with the powerful Desired State Configuration platform to achieve continuous delivery and efficiently and easily manage and deploy data for systems. What you will learn: Explore PowerShell Desired State Configuration and activities around it, including the need for configuration management and abstraction. Create reusable DSC configurations and debug/troubleshoot configuration files. Learn about the PowerShell DSC architecture with the help of push and pull management and workflows. Define DSC configuration scripts and data files and push DSC configuration files remotely and locally. Validate DSC Pull Server install and register target nodes with a DSC Pull Server. Who this book is for: If you are a system administrator, developer or engineer and are responsible for configuration management and automation, then this book is for you. IT professionals who wish to learn PowerShell Desired State Configuration for the efficient management, configuration and deployment of systems will also find this book useful.

Windows Server 2019 Automation with PowerShell Cookbook Thomas Lee, 2019-02-28 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

Microsoft Exchange Server 2013 Powershell Cookbook Jonas Andersson,2013-05-22 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 **Microsoft Exchange 2010 PowerShell Cookbook** Mike Pfeiffer,2011-07-25 Manage and maintain your Microsoft Exchange 2010 environment with Windows PowerShell 2 0 and the Exchange Management Shell *Microsoft Exchange Server 2016 PowerShell Cookbook* Jonas Andersson,Nuno Mota,Mike Pfeiffer,2017-07-14 Make the most of PowerShell s features to manage all aspects of your

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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

PowerShell Cookbook Lee Holmes, 2021-06-16 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

IT Auditing Using Controls to Protect Information Assets, Third Edition Chris Davis, Mike Schiller, Kevin Wheeler, 2019-10-04 Secure Your Systems Using the Latest IT Auditing Techniques Fully updated to cover leading edge tools and technologies IT Auditing Using Controls to Protect Information Assets Third Edition explains step by step how to implement a successful enterprise wide IT audit program New chapters on auditing cybersecurity programs big data and data repositories and new technologies are included This comprehensive guide describes how to assemble an effective IT audit team and maximize the value of the IT audit function In depth details on performing specific audits are accompanied by real world examples ready to use checklists and valuable templates Standards frameworks regulations and risk management techniques are also covered in this definitive resource Build and maintain an internal IT audit function with maximum effectiveness and value Audit entity level controls and cybersecurity programs Assess data centers and disaster recovery Examine switches routers and firewalls Evaluate Windows UNIX and Linux operating systems Audit Web servers and applications Analyze databases and storage solutions Review big data and data repositories Assess end user computer devices including PCs and mobile devices Audit virtualized environments Evaluate risks associated with cloud computing and outsourced operations Drill down into applications and projects to find potential control weaknesses Learn best practices for auditing new technologies Use standards and frameworks such as COBIT ITIL and ISO Understand regulations including Sarbanes Oxley HIPAA and PCI Implement proven risk management practices

Windows PowerShell Cookbook Lee Holmes,2010

Microsoft Exchange Server PowerShell Essentials Biswanath

Banerjee,2016-02-26 Leverage the power of basic Windows PowerShell scripts to manage your Exchange messaging environment About This Book Get to grips with Windows PowerShell and how it can be used to manage various aspects of the operating system and applications Become proficient in PowerShell and apply it to manage Exchange infrastructure on premise or via Exchange Online as part of Office 365 Learn to create Windows PowerShell scripts to do administrative tasks with this step by step easy to follow guide Who This Book Is For This book is for administrators with a basic or limited understanding of Windows PowerShell and who want to increase their skill set in managing both the Exchange On Premise and Online environments What You Will Learn Deep dive into the Windows PowerShell basics Create and manage Recipients and permissions Manage Distribution Group members permissions and group types Understand Certificates and Role Based Access Control using real world examples Review the usage of email address address book and retention policies with examples Learn to manage Exchange Client Access and Mailbox Server roles Use PowerShell for auditing and risk management in your Exchange organization Manage a highly available Exchange environment using PowerShell Interact with Exchange through the use of the Exchange Web Services managed API In Detail PowerShell has become one of the most important skills in an Exchange administrator's armory PowerShell has proved its mettle so widely that if you're not already starting to learn PowerShell then you're falling behind the industry It isn't difficult to learn PowerShell at all In fact if you've ever run commands from a CMD prompt then you'll be able to start using PowerShell straightaway This book will walk you through the essentials of PowerShell in Microsoft Exchange Server and make sure you understand its nitty gritty effectively You will first walk through the core concepts of PowerShell and their applications This book discusses ways to automate tasks and activities that are performed by Exchange administrators and that otherwise take a lot of manual effort Microsoft Exchange PowerShell Essentials will provide all the required details for Active Directory System and Exchange administrators to help them understand Windows PowerShell and build the required scripts to manage the Exchange Infrastructure Style and approach This book is written with its target audience in mind concepts are explained and followed by real life examples A comprehensive script is provided in each chapter to give you hands on practice with all the major commands used in it

Windows Server Automation with PowerShell Cookbook Thomas Lee,Jeffrey Snover,2021-07-30

Develop a holistic understanding of Windows Server with over 100 PowerShell recipes Key Features Updated with new recipes on the .NET Framework enterprise server security and managing Windows Server with WMILearn 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 Window

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 learn: Perform key admin tasks on Windows Server. 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 seeking to automate tasks more effectively with PowerShell 7.1. Basic knowledge of PowerShell is expected.

Windows PowerShell Cookbook, 3rd Edition Lee Holmes, 2013 [Windows Server Automation with PowerShell Cookbook](#)
Cookbook Thomas Lee, 2023-01-31 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 Features: New edition updated to the latest version of PowerShell 7.2 and Windows Server 2022. Discover new ways to optimize your PowerShell code by working through easy to follow recipes. Learn PowerShell best practices to automate common tasks and manage DHCP in Microsoft Windows Server objects in Active Directory, Hyper V and Azure. Book 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 learn: Perform key admin tasks on Windows Server. Keep your organization secure with JEA group policies, logs and Windows Defender. Use the .NET Framework for administrative scripting.

administrative scripting Manage data and storage on Windows including disks volumes and filesystems 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 Create manage and back up a second VM using the subnetwork in Azure Learn how to set up a VPN in Azure with PowerShell Who 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 **Windows PowerShell Pocket Reference** Lee Holmes, 2012-12-21 Portable help for PowerShell scripters Cover *Windows PowerShell Cookbook* Lee Holmes, 2007-10-23 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.

Reviewing **Microsoft Exchange Server Powershell Cookbook Third Edition**: Unlocking the Spellbinding Force of Linguistics

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