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# **Microsoft Exchange Server 2013**

## **PowerShell Cookbook**

### ***Second Edition***

Over 120 recipes to help manage and administrate Exchange Server 2013 with PowerShell 3

**Jonas Andersson**  
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# Microsoft Exchange Server 2013 Powershell Cookbook

## Second Edition

**Jonas Andersson, Nuno Mota, Mike  
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## **Microsoft Exchange Server 2013 Powershell Cookbook Second Edition:**

**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 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. 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 2013** Nathan Winters, Neil Johnson, Nicolas Blank, 2013-07-12

Get the knowledge you need to deploy a top quality Exchange service. The latest release of Microsoft's messaging system allows for easier access to e-mail, voicemail, and calendars from a variety of devices and any location while also giving users more control and freeing up administrators to perform more critical tasks. This innovative new field guide starts with key concepts of Microsoft Exchange Server 2013 and then moves through the recommended practices and processes that are necessary to deploy a top quality Exchange service. Focuses on the Exchange ecosystem rather than just the features and functions of the Exchange product. Focuses on scenarios facing real customers and explains how problems can be solved and requirements met. Zooms in on both on-premises deployments as well as Exchange Online cloud deployments with Office 365. Helps you thoroughly master the new version with step by step instruction on how to install, configure, and manage this multifaceted collaboration system. Whether you're upgrading from Exchange Server 2010 or earlier, installing for the first time, or migrating from another system, this step by step guide provides the hands on instruction, practical application, and real world advice you need.

**Learning PowerShell DSC** James Pogran, 2015-10-21

Get started with the fundamentals of PowerShell DSC and utilize its power to automate deployment and configuration of your servers. **About This Book:** Create flexible and maintainable deployments using DSC configuration scripts that stand the test of time. Explore the in depth details of the core architecture concepts and practices used by PowerShell DSC. A step by step guide that shows you how to start using and taking advantage of PowerShell DSC. **Who This Book Is For:** This book is intended for system administrators, developers, or engineers who are responsible for configuration management and automation and wish to learn PowerShell Desired State Configuration for efficient management, configuration, and deployment of systems and applications. **What You Will Learn:** Understand configuration management and why you need it. Craft flexible, reusable, and maintainable configuration scripts for thousands of servers. Create custom DSC resources to manage any application or server setting. Apply configuration data to deploy applications to different environments. Utilize DSC push deployments to test your configuration scripts and custom DSC resources. Install, configure, and use DSC pull servers. Run a Windows MSI package. Deploy a website. In Detail: Windows PowerShell is a task based command line shell and scripting language designed especially for system administration. PowerShell DSC is a new management platform that enables you to deploy and manage configuration data for software services and manage the environment in which these services run. This book begins with an overview of the basics of PowerShell DSC by covering the architecture and components of the Desired State Configuration. It will then familiarize you with the set of PowerShell language extensions and new PowerShell commands. It will help you understand and create DSC configurations with the help of practical examples and to create DSC custom resources for your custom applications. Finally,

you will learn to deploy a real world application using PowerShell DSC By the end of the book you will have better knowledge about the powerful Desired State Configuration platform which helps you to achieve continuous delivery and efficient management and easy deployment of data for systems Style and approach This book is an in depth guide to using PowerShell DSC full of real world experiences and best practices using PowerShell DSC The topics are explained and build on one another other to provide a holistic learning experience At the end all the features learned will be used to create a real world application deployment using DSC

[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

[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 [\*\*Microsoft Exchange Server 2013 Inside Out Mailbox and High Availability\*\*](#)

Tony Redmond,2013-09-15 With a focus on mailbox and high availability features this book delivers the ultimate in depth reference to IT professionals planning and managing an Exchange Server 2013 deployment Guided by Tony Redmond a Microsoft MVP and award winning author you will Understand major changes to Exchange Server architecture Get inside insights for planning your upgrade or deployment Examine the new web based Exchange admin center EAC Take a deep dive into configuring mailboxes distribution groups and contacts planning and managing the Managed Store database availability groups mailbox replication service compliance data leakage and data loss prevention site mailboxes modern public folders [\*\*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 email 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 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 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.

*Practical Powershell Exchange Server 2016* Damian Scoles, Dave Stork, 2017-10 A practical guide to using PowerShell with Exchange Server 2016. Aimed at those who want to grow their skills with PowerShell while learning to use it effectively with Exchange 2016. The Second Edition of the book adds 100 pages of brand new material.

## 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 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 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 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 *Microsoft Exchange 2013 Cookbook* Michael Van Horenbeeck,Peter De Tender,2013-09-20 This book is a practical hands on guide that provides the reader with a number of clear step by step exercises Microsoft Exchange 2013 Cookbook is targeted at network administrators who deal with the Exchange server in their day to day jobs It assumes you have some practical experience with previous versions of Exchange although this is not a requirement without being a subject matter expert **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     **Windows PowerShell Cookbook** Lee Holmes,2012-12-22 How do you use Windows 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 3.0 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 8 and Windows Server 2012 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 2016 Automation with PowerShell Cookbook** Thomas Lee,2017-09-21 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

**Practical Powershell Exchange Server 2016** Damian Scoles,Dave Stork,2017-03 A practical guide to using PowerShell with Exchange Server 2016 Aimed at those who want to grow their skills with PowerShell while learning to use it effectively with Exchange 2016

**Windows PowerShell Cookbook** Lee Holmes,2010-08-13 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

**Windows Server 2012 Automation with Powershell Cookbook** Ed Goad,2013-03-26 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

**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

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