



# Microsoft Hyper-V PowerShell Automation

Manage, automate, and streamline your Hyper-V environment effectively with advanced PowerShell cmdlets

Vinith Menon

**[PACKT]** enterprise  
PUBLISHING

# Microsoft Hyper V Powershell Automation Menon Vinith

**Chris Dent**



## **Microsoft Hyper V Powershell Automation Menon Vinith:**

**Microsoft Hyper-V PowerShell Automation** Vinith Menon, 2015-01-29 This book is great for administrators who are new to automating Hyper V administration tasks using PowerShell If you are familiar with the PowerShell command line and have some experience with the Windows Server this book is perfect for you **Instant Windows PowerShell** Vinith Menon, 2013-10-25 Get to grips with a new technology understand what it is and what it can do for you and then get to work with the most important features and tasks A practical hands on tutorial approach that explores the concepts of PowerShell in a friendly manner taking an adhoc approach to each topic If you are an administrator who is new to PowerShell or are looking to get a good grounding in these new features this book is ideal for you It s assumed that you will have some experience in PowerShell and Windows Server as well being familiar with the PowerShell command line [Getting Started with PowerShell](#) Michael Shepard, 2015-08-27 Learn the fundamentals of PowerShell to build reusable scripts and functions to automate administrative tasks with Windows About This Book Harness the capabilities of the PowerShell system to get started quickly with server automation Learn to package commands into a reusable script and add control structures and parameters to make them flexible Get to grips with cmdlets that allow you to perform administration tasks efficiently Who This Book Is For This book is intended for Windows administrators or DevOps users who need to use PowerShell to automate tasks Whether you know nothing about PowerShell or know just enough to get by this guide will give you what you need to go to take your scripting to the next level What You Will Learn Learn to verify your installed version of PowerShell upgrade it and start a PowerShell session using the ISE Discover PowerShell commands and cmdlets and understand PowerShell formatting Use the PowerShell help system to understand what particular cmdlets do Utilise the pipeline to perform typical data manipulation Package your code in scripts functions and modules Solve common problems using basic file input output functions Find system information with WMI and CIM Automate IIS functionality and manage it using the WebAdministration module In Detail Windows PowerShell is a task based command line shell and scripting language designed specifically for system administration Built on the .NET Framework Windows PowerShell helps IT professionals and power users control and automate the administration of the Windows operating system and applications that run on Windows PowerShell is great for batch importing or deleting large sets of user accounts and will let you collect a massive amount of detailed system information in bulk via WMI Windows Management Instrumentation Getting Started with PowerShell is designed to help you get up and running with PowerShell taking you from the basics of installation to writing scripts and web server automation This book as an introduction to the central topics of PowerShell covers finding and understanding PowerShell commands and packaging code for reusability right through to a practical example of automating IIS It also includes topics such as installation and setup creating scripts automating tasks and using Powershell to access data stores registry and file systems You will explore the PowerShell environment and discover how to use cmdlets functions and scripts to automate Windows

systems Along the way you will learn to perform data manipulation and solve common problems using basic file input output functions By the end of this book you will be familiar with PowerShell and be able to utilize the lessons learned from the book to automate your servers Style and approach A practical learning guide complete with plenty of activities examples and screenshots

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 FeaturesUpdated 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 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

*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

*Windows PowerShell 2.0 Bible* Thomas Lee,Karl Mitschke,Mark E. Schill,Tome Tanasovski,2011-09-26 Here s the complete guide to Windows PowerShell 2 0 for administrators and developers Windows PowerShell is Microsoft s next generation scripting and automation language This comprehensive volume provides the background that IT administrators and developers need in order to start using PowerShell automation in exciting new ways It explains what PowerShell is how to use the language and specific ways to apply PowerShell in various technologies Windows PowerShell is Microsoft s standard automation tool and something that every Windows administrator will eventually have to understand this book provides the background necessary to apply PowerShell automation Covers how to use the language and specific ways to apply PowerShell in a variety of scenarios Addresses new features in the latest version of PowerShell and the additional functionality delivered by new products that provide direct or indirect ways to use PowerShell for scripting and automation purposes Explores the language fundamentals and how to use PowerShell for desktop server server application and virtualization cloud situations This thorough guide goes well beyond theory to offer real world information and new scripting techniques enabling administrators and developers to make the most of PowerShell 2 0 **PowerShell for Sysadmins**

Adam Bertram,2020-02-04 Learn to use PowerShell Microsoft s scripting language to automate real world tasks that IT professionals and system administrators deal with every day Save Time Automate PowerShell is both a scripting language and an administrative shell that lets you control and automate nearly every aspect of IT In PowerShell for Sysadmins five time Microsoft MVP Adam the Automator Bertram shows you how to use PowerShell to manage and automate your desktop and server environments so that you can head out for an early lunch You ll learn how to Combine commands control flow handle errors write scripts run scripts remotely and test scripts with the PowerShell testing framework Pester Parse structured data like XML and JSON work with common domains like Active Directory Azure and Amazon Web Services and create a real world server inventory script Design and build a PowerShell module to demonstrate PowerShell isn t just about

ad hoc scripts Use PowerShell to create a hands off completely automated Windows deployment Build an entire Active Directory forest from nothing but a Hyper V host and a few ISO files Create endless Web and SQL servers with just a few lines of code Real world examples throughout help bridge the gap between theory and actual system and the author s anecdotes keep things lively Stop with the expensive software and fancy consultants Learn how to manage your own environment with PowerShell for Sysadmins and make everyone happy Covers Windows PowerShell v5 1 [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

**PowerShell 7 for IT Professionals** Thomas Lee,2020-12-01 Take advantage of everything Microsoft s new PowerShell 7 has to offer PowerShell 7 for IT Pros is your guide to using PowerShell 7 the open source cross platform version of Windows PowerShell Windows IT professionals can begin setting up automation in PowerShell 7 which features many improvements over the early version of PowerShell Core and Windows PowerShell PowerShell 7 users can enjoy the high level of compatibility with the Windows PowerShell modules they rely on today This book shows IT professionals especially Windows

administrators and developers how to use PowerShell7 to engage in their most important tasks such as managing networking using AD DNS DHCP leveraging Azure and more To make it easy to learn everything PowerShell 7 has to offer this book includes robust examples each containing sample code so readers can follow along Scripts are based on PowerShell 7 running on Windows 10 19H1 or later and Windows Server 2019 Learn to navigate the PowerShell 7 administrative environment Use PowerShell 7 to automate networking Active Directory Windows storage shared data and more Run Windows Update IIS Hyper V and WMI and CIM cmdlets within PowerShell 7 Understand how to handle reporting in the new PowerShell 7 environment PowerShell 7 for IT Pros provides exclusive coverage of using PowerShell with both cloud based systems and virtualized environments Hyper V and Azure Written by PowerShell veteran Thomas Lee this is the only book you ll need to get started with PowerShell 7

*Pro Microsoft Hyper-V 2019* Andy Syrewicze,Richard Siddaway,2018-10-31 Successfully create and manage your Hyper V environment without any of the marketing fluff This book s lab driven hands on approach will get you up and running as quickly and efficiently as possible Virtualization is the cornerstone of today s data center As a modern day IT pro you are required to manage environments that are in a regular state of flux and increasing in both size and complexity To keep up you need practical information in a format that is succinct yet comprehensive and highly applicable Pro Hyper V 2019 breaks down critical and time saving topics into a series of easy to digest chapters showing you how to perform Hyper V management tasks using both GUI and PowerShell based tools Building on your existing knowledge of Windows Server management Active Directory networking and storage experts and Microsoft MVPs Syrewicze and Siddaway begin with a foundation of why computing workloads are virtualized This is followedby chapters covering the range of management tasks associated with virtualized environments including managing hosts and guest machines networking storage and high availability host and guest disaster recovery and virtual machine migration and monitoring What You ll Learn Apply practical information to administer your Hyper V environments Understand multiple administration styles GUI command line and automation Written by IT pros for IT pros just the information you really need without the padding Administer and use containers Utilize hands on labs to learn about storage networking and high availability Who This Book Is For IT administrators tasked with implementing Hyper V environments or migrating from VMware IT pros joining a team that is responsible for managing Hyper V and lone administrators covering the gamut in smaller organizations will also find this book indispensable

**Windows Server 2016 Hyper-V Cookbook** Patrick Lownds,Charbel Nemnom,Leandro Carvalho,2017-01-18 Save time and resources by getting to know the best practices and intelligence from industry experts About This Book This book helps you gain a fresh perspective through a recipe based approach on the new Microsoft Server 2016 Hyper V Over 80 recipes to help you master the administrative tasks of Hyper V and get to grips with advanced solutions and techniques for virtualization These hands on advanced recipes will help you deploy maintain and upgrade Hyper V virtual machines Who This Book Is For This book is for Hyper V administrators who are looking to take advantage of

all exciting new features that Microsoft Server 2016 Hyper V has to offer What You Will Learn Install and manage Hyper V in Full Server Core and Nano Server Get to know how to migrate and upgrade physical and virtual machines Configure disks network memory security and auditing settings for virtual machines Take a deep dive into high availability and disaster recovery Save time and money by getting to grips with PowerShell automation Understand the new features around network and nested virtualization distributed storage QoS Hyper V Replica and much more Gain a full view of your virtual machines and host servers through monitoring reporting and troubleshooting tips In Detail Hyper V is a Windows based very cost effective virtualization solution with easy to use and well known administrative consoles With this book on your side you will master the worlds of Hyper V deployment migration and management by learning tips tricks and best practices especially when it comes to advanced level tasks You will learn how to quickly deploy and automate multiple VMs and support Hyper V clusters through different installation methods You will learn the concepts efficiently with the help of up to date real world examples and improve the scalability and efficiency of large scale VM deployments with Nano Server By the end of this book you will be an ace Windows Server 2016 Hyper V with the skills needed to administer and manage it effectively and survive in the brave new world of mobile first cloud first Further take advantage of bonus appendix explaining Hyper V and backup architecture and the difference between versions Style and approach This advanced level book provides step by step recipes on real world examples so you can get practical hands on experience of the subjects      **Practical Automation with**

**PowerShell** Matthew Dowst, 2023-05-09 Take PowerShell beyond simple scripts and build time saving automations for your team your users and the world In Practical Automation with PowerShell you will learn how to Build PowerShell functions to automate common and complex tasks Create smart automations that are adaptable to new challenges Structure your code for sharing and reusability Store and secure your automations Execute automations with Azure Automation Jenkins Task Scheduler and Cron Share your automations with your team and non technical colleagues Store and retrieve data credentials and variables Use source control solutions to maintain and test code changes Provide front end UI solutions for PowerShell automations Practical Automation in PowerShell reveals how you can use PowerShell to build automation solutions for a huge number of common admin and DevOps tasks Author Matthew Dowst uses his decades of experience to lay out a real blueprint for setting up an enterprise scripting environment with PowerShell The book goes beyond the basics to show you how to handle the unforeseen complexities that can keep automations from becoming reusable and resilient From the console to the cloud you ll learn how to manage your code avoid common pitfalls and create sharable automations that are adaptable to different use cases About the Technology The PowerShell scripting language is a force multiplier giving you programmatic control over your whole data center With this powerful tool you can create reusable automations that radically improve consistency and productivity on your Ops team This book shows you how to design write organize and deploy scripts to automate operations on systems of all sizes from local servers to enterprise clusters in the cloud About the Book Practical



Automation with PowerShell Effective scripting from the console to the cloud shows you how to build PowerShell automations for local and cloud systems In it you ll find tips for identifying automatable tasks techniques for structuring and managing scripts and lots of well explained example code You ll even learn how to adapt existing scripts to new use cases and empower non technical users through easy to understand SharePoint frontends What s Inside Structure PowerShell code for sharing and reusability Store and secure your automations Execute automation with Azure Automation Jenkins Task Scheduler and Cron Store and retrieve data credentials and variables Use source control solutions to maintain and test code changes About the Reader For sysadmin and IT professionals who manage backend systems About the Author Matthew Dowst has over 15 years of experience in IT management and consulting Table of contents PART 1 1 PowerShell automation 2 Get started automating PART 2 3 Scheduling automation scripts 4 Handling sensitive data 5 PowerShell remote execution 6 Making adaptable automations 7 Working with SQL 8 Cloud based automation 9 Working outside of PowerShell 10 Automation coding best practices PART 3 11 End user scripts and forms 12 Sharing scripts among a team 13 Testing your scripts 14 Maintaining your code

**Windows Server 2016 Hyper-V Cookbook - Second Edition** Charbel Nemnom, Patrick Lownds, 2016-10-31 Save time and resources by getting to know the best practices and intelligence from industry experts About This Book This book helps you gain a fresh perspective through a recipe based approach on the new Microsoft Server 2016 Hyper V Over 80 recipes to help you master the administrative tasks of Hyper V and get to grips with advanced solutions and techniques for virtualization These hands on advanced recipes will help you deploy maintain and upgrade Hyper V virtual machines Who This Book Is For This book is for Hyper V administrators who are looking to take advantage of all exciting new features that Microsoft Server 2016 Hyper V has to offer What you will learn Install and manage Hyper V in Full Server Core and Nano Server Get to know how to migrate and upgrade physical and virtual machines Configure disks network memory security and auditing settings for virtual machines Take a deep dive into high availability and disaster recovery Save time and money by getting to grips with PowerShell automation Understand the new features around network and nested virtualization distributed storage QoS Hyper V Replica and much more Gain a full view of your virtual machines and host servers through monitoring reporting and troubleshooting tips Take advantage of a bonus appendix that explains Hyper V and backup architecture and the difference between versions of Hyper V In Detail Hyper V is a Windows based very cost effective virtualization solution with easy to use and well known administrative consoles You will master Hyper V deployment migration and management by learning tips tricks and best practices especially when it comes to advanced level tasks You will learn how to quickly deploy and automate multiple VMs and support Hyper V clusters through different installation methods You will learn the concepts efficiently with the help of up to date real world examples and improve the scalability and efficiency of large scale VM deployments with Nano Server By the end of this book you will be an ace Windows Server 2016 Hyper V with the skills needed to administer and manage it effectively and survive in the brave

new world of mobile first cloud first Further take advantage of bonus appendix explaining Hyper V and backup architecture and the difference between versions

**PowerShell: Automating Administrative Tasks** Michael Shepard,Chendrayan Venkatesan,Sherif Talaat,Brenton J.W. Blawat,2017-02-24 Learn PowerShell from the inside out right from basic scripting all the way to becoming a master at automating managing and maintaining your Windows environment About This Book Use proven best practices to optimize code and automate redundant tasks Get to grips with PowerShell s advanced functions and effectively administer your system Create a variety of PowerShell scripts to automate your environment Who This Book Is For If you are a system administrator who wants to become an expert in automating and managing your Windows environment then this course is for you Some basic understanding of PowerShell would be helpful What You Will Learn Discover PowerShell commands and cmdlets and understand PowerShell formatting Solve common problems using basic file input output functions Use NET classes in Windows PowerShell and C and manage Exchange Online Use PowerShell in C to manage Exchange Online and work with NET classes in PowerShell Automate LYNC clients consuming client side object models to administrate SharePoint Online Optimize code through the use of functions switches and looping structures Manage files folders and registries through the use of PowerShell Discover best practices to manage Microsoft systems In Detail Are you tired of managing Windows administrative tasks manually and are looking to automate the entire process If yes then this is the right course for you This learning path starts your PowerShell journey and will help you automate the administration of the Windows operating system and applications that run on Windows It will get you up and running with PowerShell taking you from the basics of installation to writing scripts and performing web server automation You will explore the PowerShell environment and discover how to use cmdlets functions and scripts to automate Windows systems The next installment of the course focuses on gaining concrete knowledge of Windows PowerShell scripting to perform professional level scripting The techniques here are packed with PowerShell scripts and sample C code to automate tasks You will use NET classes in PowerShell and C to manage Exchange Online In the final section you will delve into real world examples to learn how to simplify the management of your Windows environment You will get to grips with PowerShell s advanced functions and how to most effectively administer your system This Learning Path combines some of the best that Packt has to offer in one complete curated package It includes content from the following Packt products Getting Started with PowerShell by Michael Shepard Windows PowerShell for Net Developers Second Edition by Chendrayan Venkatesan and Sherif Talaat Mastering Windows PowerShell Scripting by Brenton J W Blawat Style and approach This is a step by step course to help you effectively administer and maintain your development environment with PowerShell

Mastering Windows PowerShell Scripting Chris Dent,2019-02-28 Grasp advanced PowerShell Core 6 0 functionalities to automate your environment Key Features Keep up with changes introduced in PowerShell Core 6 0 Easily maintain appropriate compatibility with older versions Automate complex tasks manipulate data and secure your environment with PowerShell

Core 6 0 Book Description PowerShell scripts offer a handy way to automate various chores however working effectively with these scripts can be a difficult task This comprehensive guide starts with the fundamentals before moving on to advanced level topics to help you become a PowerShell Core 6 0 expert The first module PowerShell Core 6 0 Fundamentals begins with the new features of PowerShell Core 6 0 installing it on Linux and working with parameters objects and NET classes from within PowerShell Core 6 0 As you make your way through the chapters you ll see how to efficiently manage large amounts of data and interact with other services using PowerShell Core 6 0 You ll be able to make the most of PowerShell Core 6 0 s powerful automation feature where you will have different methods available to parse data and manipulate regular expressions and Windows Management Instrumentation WMI After having explored automation you will enter the extending PowerShell Core 6 0 module covering asynchronous processing and desired state configuration In the last module you will learn to extend PowerShell Core 6 0 using advanced scripts and filters and also debug issues along with working on error handling techniques By the end of this book you will be an expert in scripting with PowerShell Core 6 0 What you will learn Optimize code through the use of functions switches and looping structures Work with objects and operators to test and manipulate data Parse and manipulate different data types Create scripts and functions using PowerShell Use jobs events and popular public modules which assist with implementing multithreading Write NET classes with ease within the PowerShell Create and implement regular expressions in PowerShell scripts Make use of advanced techniques to define and restrict the behavior of parameters Who this book is for If you are a system administrator who wants to become an expert in controlling and automating your Windows environment then Mastering Windows PowerShell Scripting is for you It is also ideal for those new to the PowerShell language [Automating Microsoft Azure with Powershell](#) John Chapman, Economist,Aman Dhally,2015-03-18 This book is designed to help administrators and developers better automate Azure management tasks No prior knowledge of PowerShell is required **PowerShell and WMI** Richard Siddaway,2012-04-29 Summary PowerShell and WMI is an example driven guide for administrators managing networks of Windows servers and desktops With 150 practical examples including ready to reuse scripts and techniques you ll learn the ins and outs of automating WMI via PowerShell v3 You ll also find deep coverage of all aspects of Windows administration including IIS DNS and Hyper V About the Technology WMI on its own is simply a collection of Windows management facilities Paired with PowerShell however WMI becomes a brilliant toolset for automating servers networks and remote Windows computers About the Book PowerShell and WMI is an industrial strength guide for administrators of Windows networks servers and desktops You ll start with practical overviews of PowerShell and of WMI Then you ll explore 150 specific examples all with ready to use scripts designed to simplify your day to day system management Each tested technique is configured to load as part of a PowerShell module A set of handy appendixes includes references for PowerShell and WMI Prior exposure to PowerShell and WMI is helpful but not required Purchase of the print book comes with an offer of a free PDF ePub and Kindle eBook from

Manning Also available is all code from the book What's Inside Managing Windows IIS and Hyper V Remote desktops and devices Logs jobs and performance New PowerShell v3 WMI functionality Table of Contents PART 1 TOOLS OF THE TRADE Solving administrative challenges Using PowerShell WMI in depth Best practices and optimization PART 2 WMI IN THE ENTERPRISE System documentation Disk systems Registry administration Filesystem administration Services and processes Printers Configuring network adapters Managing IIS Configuring a server Users and security Logs jobs and performance Administering Hyper V with PowerShell and WMI PART 3 THE FUTURE POWERSHELL V3 AND WMI WMI over WSMAN Your own WMI cmdlets CIM cmdlets and sessions

**Windows Server Automation with PowerShell 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 .NET Framework for 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      **Mastering PowerShell Scripting** Chris Dent, 2021-06-29 This complete guide takes you on a tour of PowerShell from the basics to its advanced functionality helping you automate your tedious and time consuming system admin tasks Key Features Automate complex tasks manipulate data and secure your environment Work with dual code for PowerShell 7 and Windows PowerShell to maintain compatibility with older versions See PowerShell in action from learning the fundamentals to creating classes scripts and modules Book Description PowerShell scripts offer a convenient way to automate various tasks but working with them can be daunting Mastering PowerShell Scripting takes away the fear and helps you navigate through PowerShell's capabilities This extensively revised edition includes new chapters on debugging and troubleshooting and creating GUIs online chapter Learn the new features of PowerShell 7 1 by working with parameters objects and .NET classes from within PowerShell 7 1 This comprehensive guide starts with the basics before moving on to advanced topics including asynchronous processing desired state configuration using more complex scripts and filters debugging issues and error handling techniques Explore how to efficiently manage substantial amounts of data and interact with other services using PowerShell 7 1 This book will help you to make the most of PowerShell's automation features using different methods to parse data manipulate regular expressions and work with Windows Management Instrumentation (WMI) What you will learn Optimize code with functions switches and looping structures Test and debug your scripts as well as raising and catching errors Work with objects and operators to test and manipulate data Parse and manipulate different data types Use jobs runspace and runspace pools to run code asynchronously Write .NET classes with ease within PowerShell Create and implement regular expressions in PowerShell scripts Make use of advanced techniques to define and restrict the behavior of parameters Who this book is for This book is for system administrators who want to automate and speed up their processes using PowerShell and Windows PowerShell You'll need to know the basics of operating systems but beginners with no prior experience with PowerShell will have no trouble following along      **Mastering Hyper-V 2012 R2 with System Center and Windows Azure** John

Savill, 2014-04-11 This book will help you understand the capabilities of Microsoft Hyper V architect a Hyper V solution for your datacenter plan a deployment migration and then manage it all using native tools and System Center Coverage also includes hybrid cloud scenarios specifically with Windows Azure to complete the full virtualization piece of providing data both on premise and off premise In addition you will explore the Windows Azure capabilities for virtual machines and managing a hybrid cloud including Windows Azure's Internet as a Service IaaS and storage capabilities how seamless management is possible with PowerShell and System Center plus how Azure Storage can play a part in a company's complete solution Key topics covered include virtualization fundamentals network virtualization storage configuration Hyper V management and maintenance failover clustering and migration Hyper V replica and cloud orchestration private cloud implementation Azure IaaS Azure storage managing with PowerShell Hyper V decoding and Windows Server 2012 R2

integration

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