

# Microsoft Hyper V Powershell Automation Menon Vinith

Microsoft Hyper-V PowerShell Automation Instant Windows PowerShell Getting Started with PowerShell Windows PowerShell for .NET Developers Mastering PowerShell Scripting Practical Automation with PowerShell Ultimate PowerShell Automation for System Administration: Streamline Automation and Administration Tasks with Advanced PowerShell Techniques and Expert Insights PowerShell: Automating Administrative Tasks Windows PowerShell 2.0 Bible Mastering Windows PowerShell Scripting Mastering Windows PowerShell Scripting PowerShell for Sysadmins PowerShell Automating Active Directory Administration with Windows PowerShell 2.0 Learn PowerShell Scripting in a Month of Lunches, Second Edition Windows Server Automation with PowerShell Cookbook Automating Microsoft Azure with PowerShell PowerShell Automation and Scripting for Cybersecurity Windows Server 2016 Automation with PowerShell Cookbook PowerShell in Depth Vinith Menon Vinith Menon Michael Shepard Chendrayan Venkatesan Chris Dent Matthew Dowst Prashanth Jayaram Michael Shepard Thomas Lee Brenton J.W. Blawat Chris Dent Adam Bertram Matthew Adams Ken St. Cyr James Petty Thomas Lee John Chapman, Economist Miriam C. Wiesner Thomas Lee Don Jones Microsoft Hyper-V PowerShell Automation Instant Windows PowerShell Getting Started with PowerShell Windows PowerShell for .NET Developers Mastering PowerShell Scripting Practical Automation with PowerShell Ultimate PowerShell Automation for System Administration: Streamline Automation and Administration Tasks with Advanced PowerShell Techniques and Expert Insights PowerShell: Automating Administrative Tasks Windows PowerShell 2.0 Bible Mastering Windows PowerShell Scripting Mastering Windows PowerShell Scripting PowerShell for Sysadmins PowerShell Automating Active Directory Administration with Windows PowerShell 2.0 Learn PowerShell Scripting in a Month of Lunches, Second Edition Windows Server Automation with PowerShell Cookbook Automating Microsoft Azure with PowerShell PowerShell Automation and Scripting for Cybersecurity Windows Server 2016 Automation with PowerShell Cookbook PowerShell in Depth *Vinith Menon Vinith Menon Michael Shepard Chendrayan Venkatesan Chris Dent Matthew Dowst Prashanth Jayaram Michael Shepard Thomas Lee Brenton J.W. Blawat Chris Dent Adam Bertram Matthew Adams Ken St. Cyr James Petty Thomas Lee John Chapman, Economist Miriam C. Wiesner Thomas Lee Don Jones*

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

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

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

efficiently administer and maintain your development environment with windows powershell about this book explore scripting and automation techniques with windows powershell gain concrete knowledge of windows powershell scripting to perform professional level scripting discover the benefits of the configuration management platform with this step by step guide that includes real world scripting examples who this book is for if you are an it professional or developer who has worked on the net platform and you want to learn automation using windows powershell then this book is for you this self start guide takes you from the basics and gradually

moves to an intermediate level to show you how to perform professional scripting what you will learn understand the concepts of building powershell scripts and the basics of programming manage the lync exchange and sharepoint platforms create a pull server using a smb file share and http and https use net classes in windows powershell and c to manage exchange online use powershell in c to manage exchange online and work with net classes in powershell automate lync clients consuming client server object models to administrate sharepoint online in detail windows powershell 5 0 for net developers is your self start guide to performing automation using windows powershell this book will help you to understand the powershell syntax and grammar and will also teach you techniques to remove the rough edges of manual deployments packed with powershell scripts and sample c codes to automate tasks it also includes real world scenarios such as administrating office servers to help you save time and perform deployments swiftly and efficiently the book begins with the windows powershell basics explores the significant features of windows management framework 5 0 covers the basic concepts of desired state configuration and the importance of idempotent deployments by the end of the book you will have a good understanding of windows powershell s features and will be able to automate your tasks and manage configuration effectively style and approach this is an easy to follow step by step guide with text enabled screenshots each topic is explained with codes and examples it also includes multiple approaches for a number of tasks to let you choose the best one for you depending on your scenario

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 descriptionpowershell scripts offer a convenient way to automate various tasks but working with them can be daunting mastering powershell scripting takes away the fear and helps you navigate through powershell s capabilities this extensively revised edition includes new chapters on debugging and troubleshooting and creating guis online chapter learn the new features of powershell 7 1 by working with parameters objects and net classes from within powershell 7 1 this comprehensive guide starts with the basics before moving on to advanced topics including asynchronous processing desired state configuration using more complex scripts and filters debugging issues and error handling techniques explore how to efficiently manage substantial amounts of data and interact with other services using powershell 7 1 this book will help you to make the most of powershell s automation features using different methods to parse data manipulate regular expressions and work with windows management instrumentation wmi what you will learn optimize code with functions switches and looping structures test and debug your scripts as well as raising and catching errors work with objects and operators to test and manipulate data parse and manipulate different data types use jobs runspaces and runspace pools to run code asynchronously write net classes with ease within powershell create and implement regular expressions in powershell scripts make use of advanced techniques to define and restrict the behavior of parameters who this book is for this book is for system

administrators who want to automate and speed up their processes using powershell and windows powershell you ll need to know the basics of operating systems but beginners with no prior experience with powershell will have no trouble following along

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

power up your automation and administration with powershell key features master powershell for efficient it administration and configuration explore practical scenarios with clear explanations and essential scripts enhance automation skills to stay ahead in it innovation optimize microsoft

product management with advanced powershell techniques book descriptionunlock the power of powershell with this comprehensive guide designed as your ultimate companion the book is structured into three parts each focusing on different aspects of powershell you ll start with the basics and then explore powershell core s unique features next you ll delve into building blocks pipelines and data control with arrays loops and hash tables as you progress you ll master powershell security and develop advanced functions to automate complex tasks further chapters will guide you through optimizing windows administration managing tasks and jobs and exploring remoting features for efficient multi system management finally you ll leverage powershell for cloud operations and integrate it seamlessly with the microsoft ecosystem this book provides a progressive journey in powershell automation equipping you with essential skills for various tasks from windows administration to cloud operations what you will learn master powershell and powershell core fundamentals syntax and cmdlets develop robust scripts using variables arrays conditionals loops and hash tables implement security best practices to safeguard data and systems create advanced functions to streamline script development administer windows environments efficiently with powershell automate tasks and optimize system performance with powershell utilize powershell remoting for remote administration and cross platform execution manage cloud resources using powershell for provisioning and configuration integrate powershell with microsoft ecosystem components like active directory and azure create custom modules for enhanced efficiency including support for other cloud vendors table of contentspart 1 fundamentals of powershell 1 introduction to powershell 2 introduction to powershell core 3 powershell building blocks and pipelines part 2 powershell scripting and automation4 data control and arrays using conditional statements loops and hashtables 5 powershell security 6 powershell advanced functions 7 windows administration using powershell part 3 powershell advanced topics 8 powershell tasks and jobs 9 powershell remoting 10 managing cloud operations using powershell 11 powershell and microsoft ecosystem index

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

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

if you are a system administrator who wants to become an expert in controlling and automating your windows environment then this book is for you prior knowledge of powershell s core elements and applications is required for this book

master the art of automating and managing your environment using powershell about this book find quick solutions to automate your environment with ease work with large amounts of data effortlessly with powershell data types and secure them packed with real world examples to automate and simplify the management of your windows environment who this book is for if you are a system administrator who wants to become an expert in controlling and automating your

windows environment then this book is for you it is also for those new to the powershell language what you will learn optimize code through the use of functions switches and looping structures install powershell on your linux system utilize variables hashes and arrays to store data work with objects and operators to test and manipulate data parse and manipulate different data types write net classes with ease within the powershell create and implement regular expressions in powershell scripts deploy applications and code with powershell s package management modules leverage session based remote management manage files folders and registries through the use of powershell in detail powershell scripts offer a handy way to automate various chores working with these scripts effectively can be a difficult task this comprehensive guide starts from scratch and covers advanced level topics to make you a powershell expert the first module powershell fundamentals begins with new features installing powershell on linux working with parameters and objects and also how you can work with net classes from within powershell in the next module you ll see how to efficiently manage large amounts of data and interact with other services using powershell you ll be able to make the most of powershell s powerful automation feature where you will have different methods to parse and manipulate data regular expressions and wmi after automation you will enter the extending powershell module which covers topics such as asynchronous processing and creating modules the final step is to secure your powershell so you will land in the last module securing and debugging powershell which covers powershell execution policies error handling techniques and testing by the end of the book you will be an expert in using the powershell language style and approach this practical guide covers all the advanced powershell functionalities that an administrator needs to learn to automate their environments

learn 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 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 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

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quickest way to discover the commands you need for the particular task you want to accomplish windows powershell is microsoft s standard automation tool and something that every windows administrator will eventually have to understand the book powershell the powershell for beginners guide to learn powershell scripting powershell 5 and windows powershell is filled with examples and fun little exercises that will show the reader the results of their work immediately and encourages the reader to continue learning it provides the background necessary to apply powershell automation and introduces the powershell script language shows the secure execution of command sequences as scripts and demonstrates how to use powershell to access essential operating system interfaces what you will learn inside the book the basics of powershell learning the powershell commands powershell script creation powershell providers working with files and folders making powershell work for you powershell terminology this book will guide you through the very basics and up to the point where you will have enough tools to learn more advanced guidebooks or continue scripting and automating windows using powershell no experience with windows powershell or other scripting technologies necessarythis book is designed for anyone who wants to learn windows powershell by the end of the book you will be able to optimize code through the use of functions switches and looping structures utilize variables hashes and arrays to store data work with objects and operators to test and manipulate data create and implement regular expressions in powershell scripts leverage session based remote management manage files folders and registries through the use of powershell discover the best practices to manage microsoft systems this guide captures the field tested tips real world lessons and candid advice of practitioners across the range of business and technical scenarios and across the scripting life cycle what are you waiting for buy powershell the powershell for beginners guide to learn powershell scripting powershell 5 and windows powershell right now and prepare for the future of microsoft automation

focused content on automating the user authentication and authorization tool for windows environments automation helps make administration of computing environments more manageable it alleviates the repetition of repeating frequent tasks and and automates just about any task for active directory windows powershell 2 0 focused on everyday and frequently performed tasks this indispensable guide provides you with the powershell solutions for these tasks solutions are presented in a step by step format so that you can fully grasp how the new active directory module for powershell provides command line scripting for administrative configuration and diagnostic tasks walks you through the processes and tools required to automate everyday tasks offers powershell solutions for maintaining a windows server 2008 r2 environment includes real world examples explanations of concepts and step by step solutions this unique book allows you to work more efficiently and effectively and keep up with the ever increasing demands from businesses

automate complex tasks and processes with powershell scripts this amazing book teaches you how to write test and organize high quality reusable scripts for windows linux and cloud based systems learn powershell scripting in a month of lunches second edition takes you beyond command line powershell and opens up the amazing world of scripting and automation in just 27

bite sized lessons you'll learn to write scripts that can eliminate repetitive manual tasks create custom reusable tools and build effective pipelines and workflows in learn powershell scripting in a month of lunches second edition you'll learn setting up a reliable scripting environment designing functions and scripts effective pipeline usage scripting and security dealing with errors and bugs source control with git sharing and publishing scripts professional grade scripting practices the powershell language lets you write scripts to control nearly every aspect of windows just master a few straightforward scripting skills and you'll save yourself from hours of tedious tasks this revised second edition is fully updated to powershell's latest version including hands on examples that perfectly demonstrate modern powershell's cross platform applications about the technology you can write powershell scripts to automate nearly any admin task on windows linux and macos this book shows you how in just 27 short lessons you can complete on your lunch break you'll learn to create organize test and share scripts and tools that will save you hours of time in your daily work about the book learn powershell scripting in a month of lunches second edition is a hands on introduction to powershell automation and toolbuilding updated for the latest version of powershell this thoroughly revised bestseller teaches you how to write efficient scripts find and squash bugs and organize your tools into libraries along the way you'll even pick up tips for securing and managing linux and macos systems what's inside setting up a reliable scripting environment designing functions and scripts effective pipeline usage sharing and publishing scripts about the reader beginning to intermediate knowledge of powershell required about the author james petty is ceo of powershell.org and the devops collective and a microsoft mvp don jones and jeffery hicks are the authors of the first edition of learn powershell scripting in a month of lunches table of contents part 1 1 before you begin 2 setting up your scripting environment 3 wwpd what would powershell do 4 review parameter binding and the powershell pipeline 5 scripting language a crash course 6 the many forms of scripting and which to choose 7 scripts and security part 2 8 always design first 9 avoiding bugs start with a command 10 building a basic function and script module 11 getting started with advanced functions 12 objects the best kind of output 13 using all the streams 14 simple help making a comment 15 errors and how to deal with them 16 filling out a manifest part 3 17 changing your brain when it comes to scripting 18 professional grade scripting 19 an introduction to source control with git 20 pestering your script 21 signing your script 22 publishing your script part 4 23 squashing bugs 24 enhancing script output presentation 25 wrapping up the net framework 26 storing data not in excel 27 never the end

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 5 discover new ways to optimize your powershell code by working through easy to follow recipes book description with a foreword from powershell creator jeffrey snover this heavily updated edition is designed to help you learn how to use powershell 7 1 effectively and manage the core roles features and services of windows server 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

this book is designed to help administrators and developers better automate azure management tasks no prior knowledge of powershell is required

written by a microsoft security expert this practical guide helps you harness powershell's offensive and defensive capabilities to strengthen your organization's security purchase of the print or kindle book includes a free pdf ebook key features master powershell for security configure audit monitor exploit and bypass defenses gain insights from a microsoft expert and creator of powershell tools eventlist and jeanalyzer build stealthy techniques to evade controls while improving detection and response learn practical techniques from real world case studies to enhance your security operations book description take your cybersecurity skills to the next level with this comprehensive powershell security guide whether you're on the red or blue team you'll gain a deep understanding of powershell's security capabilities and how to apply them with years of hands on experience the author brings real world use cases to demonstrate powershell's critical role in offensive and defensive security after covering powershell basics and scripting fundamentals you'll explore powershell remoting and remote management technologies you'll learn to configure and analyze windows event logs identifying crucial logs and ids for effective monitoring the book delves into powershell's interaction with system components active directory and azure ad including stealth execution methods you'll uncover authentication protocols enumeration credential theft and exploitation providing strategies to mitigate these risks a dedicated red and blue team cookbook offers practical security tasks finally you'll delve into mitigations such as just enough administration amsi application control and code signing emphasizing configuration risks exploitation bypasses and best practices by the end of this book you'll confidently apply powershell for cybersecurity from detection to defense staying ahead of cyber threats what you will learn leverage powershell its mitigation techniques and detect attacks fortify your environment and systems against threats get unique insights into event logs and ids in relation to powershell and detect attacks configure psremoting and learn about risks

bypasses and best practices use powershell for system access exploitation and hijacking red and blue team introduction to active directory and azure ad security discover powershell security measures for attacks that go deeper than simple commands explore jea to restrict what commands can be executed who this book is for this book is for security professionals penetration testers system administrators red and blue team members and cybersecurity enthusiasts aiming to enhance their security operations using powershell whether you're experienced or new to the field it offers valuable insights and practical techniques to leverage powershell for various security tasks a basic understanding of powershell and cybersecurity fundamentals is recommended familiarity with concepts such as active directory as well as programming languages like c and assembly can be beneficial

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

summary powershell in depth second edition is the go to reference for administrators working with windows powershell every major technique technology and tactic is carefully explained and demonstrated providing a hands on guide to almost everything an admin would do in the shell written by three experienced authors and powershell mvp's this is the powershell book you'll keep next to your monitor not on your bookshelf purchase of the print book includes a free ebook in pdf kindle and epub formats from manning publications about the book a windows admin using powershell every day may not have the time to search the net every time he or she

hits a snag wouldn't it be great to have a team of seasoned powershell experts ready to answer even the toughest questions that's what you get with this book powershell in depth second edition is the go to reference for administrators working with windows powershell every major technique technology and tactic is carefully explained and demonstrated providing a hands on guide to almost everything an admin would do in the shell written by powershell mvps don jones jeffrey hicks and richard siddaway each valuable technique was developed and thoroughly tested so you'll be able to consistently write production quality maintainable scripts while saving hours of time and effort this book assumes you know the basics of powershell what's inside automating tasks packaging and deploying scripts introduction to desired state configuration powershell security covers powershell version 3 and later about the authors don jones jeffery hicks and richard siddaway are microsoft mvps trainers and administrators collectively they've authored nearly three dozen books on powershell and windows administration table of contents part 1 powershell fundamentals introduction powershell hosts using the powershell help system the basics of powershell syntax working with pssnapins and modules operators working with objects the powershell pipeline formatting part 2 powershell management powershell remoting background jobs and scheduling working with credentials regular expressions working with html and xml data psdrives and psproviders variables arrays hash tables and script blocks powershell security advanced powershell syntax part 3 powershell scripting and automation powershell's scripting language basic scripts and functions creating objects for output scope powershell workflows advanced syntax for scripts and functions script modules and manifest modules custom formatting views custom type extensions data language and internationalization writing help error handling techniques debugging tools and techniques functions that work like cmdlets tips and tricks for creating reports part 4 advanced powershell working with the component object model com working with net framework objects accessing databases proxy functions building a gui wmi and cim working with the web desired state configuration

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