

Microsoft Hyper V Powershell Automation Menon Vinith

Microsoft Hyper-V PowerShell Automation PowerShell: Automating Administrative Tasks Instant Windows PowerShell Windows Server 2012 Hyper-V Installation and Configuration Guide Windows Server Automation with PowerShell Cookbook PowerShell for Sysadmins Windows Server 2016 Automation with PowerShell Cookbook Mastering Virtual Machine Manager 2008 R2 Cross-Platform Modern Apps with VS Code Practical Automation with PowerShell Windows Server Automation with PowerShell Cookbook Mastering Citrix® XenDesktop® Windows PowerShell 2.0 Bible Microsoft Azure Infrastructure Services for Architects Mastering PowerShell Scripting Windows Server 2012 Automation with PowerShell Cookbook Windows Server 2008 R2 Hyper-V Windows PowerShell for .NET Developers PowerShell 7 for IT Professionals Windows Server 2019 Automation with PowerShell Cookbook Vinith Menon Michael Shepard Vinith Menon Aidan Finn Thomas Lee Adam Bertram Thomas Lee Michael Michael Ockert J. du Preez Matthew Dowst Thomas Lee Govardhan Gunnala Thomas Lee John Savill Chris Dent Ed Goad John Kelbley Chendrayan Venkatesan Thomas Lee Thomas Lee

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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

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

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

go to guide for using microsoft s updated hyper v as a virtualization solution windows server 2012 hyper v offers greater scalability new components and more options than ever before for large enterprise systems and small medium businesses windows server 2012 hyper v installation and configuration guide is the place to start learning about this new cloud operating system you ll get up to speed on the architecture basic deployment and upgrading creating virtual workloads designing and implementing advanced network architectures creating multitenant clouds backup disaster recovery and more the international team of expert authors offers deep technical detail

as well as hands on exercises and plenty of real world scenarios so you thoroughly understand all features and how best to use them explains how to deploy use manage and maintain the windows server 2012 hyper v virtualization solutions in large enterprises and small to medium businesses provides deep technical detail and plenty of exercises showing you how to work with hyper v in real world settings shows you how to quickly configure hyper v from the gui and use powershell to script and automate common tasks covers deploying hyper v hosts managing virtual machines network fabrics cloud computing and using file servers also explores virtual san storage creating guest clusters backup and disaster recovery using hyper v for virtual desktop infrastructure vdi and other topics help make your hyper v virtualization solution a success with windows server 2012 hyper v installation and configuration guide

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 wmic 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

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

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

one of a kind guide from microsoft insiders on virtual machine manager 2008 r2 what better way to learn vmm 2008 r2 than from the high powered microsoft program managers themselves this stellar author team takes you under the hood of vmm 2008 r2 providing intermediate and advanced coverage of all features walks you through microsoft's new system center virtual machine manager 2008 a unified system for managing all virtual and physical assets vmm 2008 not only supports windows server 2008 hyper v but also vmware esx as well features a winning author team behind the new vmm describes all the new and enhanced features of vmm 2008 r2

and devotes ample time to how it also supports top competitors vmware es uses a hands on approach giving you plenty of practical examples to clarify concepts open this in depth guide and discover techniques and processes you can put to immediate use

simplified development of cross platform applications by learning vs code key features covers sophisticated to simple web apps and webuis development on vs code with debugging in depth experimentation of vs code including machine learning nodejs api and customized extensions provides refresher on popular tools like ef core angular xamarin forms and blazor description this book explores vs code s core features including multi language ide rapid programming and innovative front end development to show readers how to design and debug modern online and cloud applications you will learn how to build native apps spend less time working with the platform and focus more on the creative aspects of generating a smart ui while you learn and practise on vs code you build solid grounds on robust server side programming you will learn how to use vs code to develop your javascript typescript nodejs or angular app more quickly and easily not only an application development environment but vs code also enables you to create microservices extensions and cloud applications not only can you construct applications with vs code but you can also develop microservices extensions and cloud applications throughout the book you get trained on entity framework core razor xamarin forms and numerous apis this book not only prepares you to design multi platform applications or work with visual studio code but it also prepares you to be a great developer who can alter the code debug issues and manage the many versions on your own what you will learn engage razor and asp net core to build dynamic web apps get a practical edge with xamarin forms to experience the native development explore entity framework core for building data rich applications create a custom visual studio code extension for your application use a variety of apis such as nodejs and python in your implementations who this book is for this book caters to application developers and web developers who want to develop multi platform applications and authentic practice of vs code environment you are not required to have any programming experience though some understanding of application development may help speed up the learnings table of contents 1 comparing visual studio code to visual studio 2 up and running with vs code 3 building uis with blazor 4 building websites with asp net core razor pages 5 building cross platform mobile apps with xamarin forms 6 building based apps with angular 7 introducing entity framework core 8 exploring the database providers in entity framework core 9 building multi platform apps with visual studio code 10 building services with visual studio code 11 application deployment options 12 working with python node js and other apis 13 creating custom extensions in visual studio code 14 appendix a

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

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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 learnperform key admin tasks on windows serverkeep your organization secure with jea group policies logs and windows defenderuse net framework for administrative scriptingmanage data and storage on windows including disks volumes and filesystemsreport system performance using built in cmdlets and wmi to obtain single measurementsapply the right tools and modules to troubleshoot and debug windows servercreate manage and back up a second vm using the subnetwork in azurelearn how to set up a vpn in azure with powershellwho 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

nowadays many organizations are moving toward desktop virtualization citrix xendesktop is the most comprehensive solution to implement a scalable and high performance virtual desktop environment this book will provide you with the technical skills you need to successfully design set up and maintain a xendesktop environment this book will introduce you to the main components of a xendesktop infrastructure and covers how to design and install them through each chapter you will quickly learn how to configure your virtual desktop environment in order to meet specific end user requirements giving your users the freedom to work from anywhere and from any device while virtual desktops and apps are centrally maintained in your data center

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

an expert guide for it administrators needing to create and manage a public cloud and virtual

network using microsoft azure with microsoft azure challenging amazon services aws for market share there has been no better time for it professionals to broaden and expand their knowledge of microsoft s flagship virtualization and cloud computing service microsoft azure infrastructure services for architects designing cloud solutions helps readers develop the skills required to understand the capabilities of microsoft azure for infrastructure services and implement a public cloud to achieve full virtualization of data both on and off premise microsoft azure provides granular control in choosing core infrastructure components enabling it administrators to deploy new windows server and linux virtual machines adjust usage as requirements change and scale to meet the infrastructure needs of their entire organization this accurate authoritative book covers topics including iaas cost and options customizing vm storage enabling external connectivity to azure virtual machines extending azure active directory replicating and backing up to azure disaster recovery and much more new users and experienced professionals alike will get expert guidance on understanding evaluating deploying and maintaining microsoft azure environments from microsoft mvp and technical specialist john savill develop the skills to set up cloud based virtual machines deploy web servers configure hosted data stores and use other key azure technologies understand how to design and implement serverless and hybrid solutions learn to use enterprise security guidelines for azure deployment offering the most up to date information and practical advice microsoft azure infrastructure services for architects designing cloud solutions is an essential resource for it administrators consultants and engineers responsible for learning designing implementing managing and maintaining microsoft virtualization and cloud technologies

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

if you work on a daily basis with windows server 2012 this book will make life easier by teaching you the skills to automate server tasks with powershell scripts all delivered in recipe form for rapid implementation overview extend the capabilities of your windows environment improve the process reliability by using well defined powershell scripts full of examples scripts and real world best practices in detail automating server tasks allows administrators to repeatedly perform the same or similar tasks over and over again with powershell scripts you can automate server tasks and reduce manual input allowing you to focus on more important tasks windows server 2012 automation with powershell will show several ways for a windows administrator to automate and streamline his her job learn how to automate server tasks to ease your day to day operations generate performance and configuration reports and troubleshoot and resolve critical problems windows server 2012 automation with powershell will introduce you to the advantages of using windows server 2012 and powershell each recipe is a building block that can easily be combined to provide larger and more useful scripts to automate your systems the recipes are packed with examples and real world experience to make the job of managing and administering windows servers easier the book begins with automation of common windows networking components such as ad dhcp dns and pki managing hyper v and backing up the server environment by the end of the book you will be able to use powershell scripts to automate tasks such as performance monitoring reporting analyzing the environment to match best practices and troubleshooting what you will learn from this book streamline routine administration processes automate the implementation of entire ad infrastructures generate automatic reports that highlight unexpected changes in your environment monitor performance and report on system utilization in detailed graphs and analysis create and manage a reliable and redundant hyper v environment utilize the best practices analyzer from microsoft to ensure your environment is configured optimally manage the patch level of your enterprise utilize multiple protocols to share information in a heterogeneous environment approach cookbook with recipes based on real life examples who this book is written for this book is written to assist the daily tasks for systems administrators engineers and architects working with windows server 2012

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functionalities of windows server 2008 r2 hyper v including live migration 64 lp support processor compatibility mode enhanced processor functionality support hot add and remove of storage tcp offload support and vm queue support demonstrates key scenarios for hyper v including server consolidation testing and development business continuity and disaster recovery and dynamic it provides step by step instructions and examples this insiders guide will help you get the most out of your hardware and reduce cost with windows server 2008 r2 hyper v

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

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

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

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Introduction

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