

# Microsoft Hyper V Powershell Automation Menon Vinith

Windows Server 2016 Hyper-V Cookbook  
Windows PowerShell Cookbook  
Windows Server 2016 Cookbook  
Microsoft System Center Introduction to Microsoft Automation Solutions  
Microsoft Azure Essentials - Fundamentals of Azure  
Microsoft System Center Operations Manager Field Experience  
Windows Server 2019 Automation with PowerShell Cookbook  
Active Directory with PowerShell  
Microsoft Hyper-V PowerShell Automation  
Deploying Windows 10  
Windows Server 2008 Hyper-V  
Windows Server 2012 Hyper-V Cookbook  
Windows Server 2012 Automation with Powershell Cookbook  
Windows Server 2019 & PowerShell All-in-One For Dummies  
Microsoft System Center Data Protection Manager Cookbook  
Windows Server 2016 Automation with PowerShell Cookbook  
Windows Server 2012 Automation with Powershell Cookbook  
Pro Microsoft Hyper-V 2019  
Windows Server 2008 Hyper-V Resource Kit  
Windows Server 2012 Hyper-V Installation and Configuration Guide  
Exam Ref 70-533 Implementing Microsoft Azure Infrastructure Solutions  
Getting Started with PowerShell  
Automating Microsoft Azure with PowerShell  
Automating Microsoft Windows Server 2008 R2 with Windows PowerShell 2.0  
Microsoft System Center Designing Orchestrator Runbooks  
Microsoft System Center Deploying Hyper-V with Software-Defined Storage & Networking  
Microsoft System Center Building a Virtualized Network Solution  
Citrix® XenDesktop® 7 Cookbook  
Instant Windows PowerShell  
Microsoft System Center -

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Network Virtualization and Cloud  
ComputingPowerShell for SysadminsLearning  
PathTraining GuideWindows PowerShell 3.0 Step by  
StepHyper-V SecurityOptimizing and Troubleshooting  
Hyper-V NetworkingIntroducing Windows Server 2012  
R2Windows Server 2016 Automation with Powershell  
CookbookLearn Windows PowerShell 3 in a Month of  
LunchesPowerShell 7 for IT Professionals

## **Windows Server 2016 Hyper-V Cookbook**

Part of a series of specialized guides on System Center - this book provides focused drilldown into building a virtualized network solution. Series editor Mitch Tulloch and a team of System Center experts provide concise technical guidance as they step you through key build, configuration, and implementation tasks.

## **Windows PowerShell Cookbook**

Part of a series of specialized guides on System Center, this book focuses on Microsoft System Center Operations Manager. For the seasoned professional, it covers the role of the Operations Manager product, the best practices for working with management packs, how to use the reporting feature to simplify managing the product, how to thoroughly troubleshoot, and how to use and install Operations Manager in the Microsoft Azure Public Cloud environment.

## Windows Server 2016 Cookbook

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.

## **Microsoft System Center Introduction to Microsoft Automation Solutions**

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,

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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.

### **Microsoft Azure Essentials - Fundamentals of Azure**

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

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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.

## **Microsoft System Center Operations Manager Field Experience**

This book is designed to help administrators and developers better automate Azure management tasks. No prior knowledge of PowerShell is required.

## **Windows Server 2019 Automation with PowerShell Cookbook**

Microsoft Azure Essentials from Microsoft Press is a series of free ebooks designed to help you advance your technical skills with Microsoft Azure. The first ebook in the series, Microsoft Azure Essentials: Fundamentals of Azure, introduces developers and IT professionals to the wide range of capabilities in Azure. The authors - both Microsoft MVPs in Azure - present both conceptual and how-to content for key areas, including: Azure Websites and Azure Cloud Services Azure Virtual Machines Azure Storage Azure Virtual Networks Databases Azure Active Directory Management tools Business scenarios Watch Microsoft Press's blog and Twitter (@MicrosoftPress) to learn about other free ebooks in the "Microsoft Azure Essentials" series.

## **Active Directory with PowerShell**

Cookbook with recipes based on real life examples. This book is written to assist the daily tasks for systems administrators, engineers, and architects working with Windows Server 2012.

## **Microsoft Hyper-V PowerShell Automation**

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.

## **Deploying Windows 10**

Over 60 recipes to achieve a robust and advanced backup and recovery solution leveraging SCDPM Key Features Adapt to the modern data center design challenges and improve storage efficiency Effective recipes to help you create your own robust architectural designs Solve data protection and recovery problems in your organization Book Description System Center Data Protection Manager (SCDPM) is a robust enterprise backup and recovery system that contributes to your BCDR strategy by facilitating the backup and recovery of enterprise data. With an increase in data recovery and protection problems faced in organizations, it has become important to keep data safe and recoverable. This book contains recipes that will help you upgrade

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to SCDPM and it covers the advanced features and functionality of SCDPM. This book starts by helping you install SCDPM and then moves on to post-installation and management tasks. You will come across a lot of useful recipes that will help you recover your VMware and Hyper-V VMs. It will also walk you through tips for monitoring SCDPM in different scenarios. Next, the book will also offer insights into protecting windows workloads followed by best practices on SCDPM. You will also learn to back up your Azure Stack Infrastructure using Azure Backup. You will also learn about recovering data from backup and implementing disaster recovery. Finally, the book will show you how to configure the protection groups to enable online protection and troubleshoot Microsoft Azure Backup Agent. What you will learn Install and prepare SQL Server for the SCDPM database Reduce backup storage with SCDPM and data deduplication Learn about the prerequisites for supported Hyper-V Server protection Integrate SCDPM with other System Center products to build optimal services Protect and restore the SCDPM database Protect your data center by integrating SCDPM with Azure Backup Manually create online recovery points and recover production data from Azure Protect and learn about the requirements to recover Azure Stack with SCDPM Who this book is for If you are an SCDPM administrator, this book will help you verify your knowledge and provide you with everything you need to know about the new release of System Center Data Protection Manager.

## **Windows Server 2008 Hyper-V**

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Presents a guide on how to use Windows PowerShell to script Windows administrative tasks and control Windows from the command line.

### **Windows Server 2012 Hyper-V Cookbook**

Part of a series of specialized guides on System Center - this book delivers a focused overview of network virtualization capabilities and cloud computing scenarios. Series editor Mitch Tulloch and a team of System Center experts provide concise technical guidance as they step you through key technical scenarios and considerations.

### **Windows Server 2012 Automation with Powershell Cookbook**

Your hands-on, step-by-step guide to automating Windows administration with Windows PowerShell 3.0 Teach yourself the fundamentals of Windows PowerShell 3.0 command line interface and scripting language—one step at a time. Written by a leading scripting expert, this practical tutorial delivers learn-by-doing exercises, timesaving tips, and hands-on sample scripts for performing administrative tasks on both local and remote Windows systems. Discover how to: Use built-in cmdlets to execute commands Write scripts to handle recurring tasks Use providers to access information beyond the shell environment Configure network components with Windows Management Instrumentation Manage users, groups, and computers with Active Directory services Execute scripts to administer and troubleshoot Microsoft

Exchange Server 2010

## **Windows Server 2019 & PowerShell All-in-One For Dummies**

Hyper-V Security is intended for administrators with a solid working knowledge of Hyper-V Server, Windows Server, and Active Directory. An administrator with a functional environment will be able to use the knowledge and examples present in this book to enhance security.

## **Microsoft System Center Data Protection Manager Cookbook**

NOTE: This title is also available as a free eBook on the Microsoft Download Center. It is offered for sale in print format as a convenience. Get a head start evaluating Windows Server 2012 R2 - with technical insights from a Microsoft MVP and members of the Windows Server product team. Based on final Windows Server 2012 R2 release-to-manufacturing (RTM) software, this guide introduces new features and capabilities, with scenario-based advice on how the platform can meet the needs of your business. Get the high-level overview you need to begin preparing your deployment now. Coverage includes: Server virtualization and cloud solutions Availability and scalability Provisioning and storage management Security features, access, and data protection Infrastructure options Server management and automation

## **Windows Server 2016 Automation with PowerShell Cookbook**

Fully updated for Windows Server 2012 R2! Designed to help enterprise administrators develop real-world, job-role-specific skills - this Training Guide focuses on deploying and managing core infrastructure services in Windows Server 2012 R2. Build hands-on expertise through a series of lessons, exercises, and suggested practices - and help maximize your performance on the job. This Microsoft Training Guide: Provides in-depth, hands-on training you take at your own pace Focuses on job-role-specific expertise for deploying and managing core infrastructure services Creates a foundation of skills which, along with on-the-job experience, can be measured by Microsoft Certification exams such as 70-410 Topics include: Preparing for Windows Server 2012 R2 Deploying servers Server remote management New Windows PowerShell capabilities Deploying domain controllers Active Directory administration Network administration Advanced networking capabilities

## **Windows Server 2012 Automation with PowerShell Cookbook**

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

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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

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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.

### **Pro Microsoft Hyper-V 2019**

Automate Windows server tasks with the powerful features of the PowerShell Language Key Features Leverage PowerShell to automate complex Windows server tasks Master new features such as DevOps, and containers, and speed up their performance using PowerShell Improve PowerShell's usability, and control and manage Windows-based environments by working through exciting recipes Book 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

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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 learn Perform key admin tasks on Windows Server 2019 Employing best practices for writing PowerShell scripts and configuring Windows Server 2019 Use the .NET Framework to achieve administrative scripting Set up VMs, websites, and shared files on Azure Report system performance using built-in cmdlets and WMI to obtain single measurements Know the tools you can use to diagnose and resolve issues with Windows Server Who 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

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knowledge of PowerShell is expected.

### **Windows Server 2008 Hyper-V Resource Kit**

Part of a series of specialized guides on System Center - this book delivers a focused drilldown into designing runbooks for Orchestrator workflow management solutions. Series editor Mitch Tulloch and a team of System Center experts provide concise technical guidance as they step you through key design concepts, criteria, and tasks.

### **Windows Server 2012 Hyper-V Installation and Configuration Guide**

Get a head start deploying Windows 10--with tips and best practices from experts in the field. This guide shows you how to deploy Windows 10 in an automated way without impacting end users by leveraging System Center Configuration Manager, which is the most used product to deploy Microsoft operating systems in the industry today.

### **Exam Ref 70-533 Implementing Microsoft Azure Infrastructure Solutions**

This scenario-focused title provides concise technical guidance and insights for troubleshooting and optimizing networking with Hyper-V. Written by experienced virtualization professionals, this little book packs a lot of value into a few pages, offering a lean read with lots of real-world insights and best

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practices for Hyper-V networking optimization in Windows Server 2012. Focused guide extends your knowledge and capabilities with Hyper-V networking in Windows Server 2012 Shares hands-on insights from a team of Microsoft virtualization experts Provides pragmatic troubleshooting and optimization guidance from the field

### **Getting Started with PowerShell**

Hyper-V is one of the top virtualization products, and this practical guide focuses on the essentials of Windows Server 2008 Hyper-V. Written by the Microsoft team behind the Hyper-V product, this book shows you how to perform key virtualization scenarios, such as server consolidation, software test and development, and a dynamic data center and demonstrates how Hyper-V can be used to reduce cost and eliminate the complexity of a server infrastructure by consolidating workloads to a small number of machines. In addition, the material addresses using DPM, and SCOM with VMM in order to maintain and manage Hyper-V environments.

### **Automating Microsoft Azure with PowerShell**

Cookbook with recipes based on real life examples. This book is written to assist the daily tasks for systems administrators, engineers, and architects working with Windows Server 2012.

### **Automating Microsoft Windows Server**

## **2008 R2 with Windows PowerShell 2.0**

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,

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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.

### **Microsoft System Center Designing Orchestrator Runbooks**

A step-by-step course that includes tasks ranging from a standard to high-level difficulty, oriented to deploy an enterprise production VDI environment. This practical approach is based on both GUI and command line operations, which gives you as an IT professional the alternatives to operate the system wherever possible. If you are a system administrator or an experienced IT professional who wants to refer to a centralized container of procedures and advanced tasks in XenDesktop, this is the book for you. If you are an IT technician approaching this technology for the first time, who wants to integrate a more theoretical formative process with step-by-step installation and configuration activities, this book will also help you. You will need to have experience of the virtualized environment and an understanding of the general concepts of desktop virtualization (VDI).

### **Microsoft System Center Deploying**

## **Hyper-V with Software-Defined Storage & Networking**

Learn to automate the top server operating system, Windows Server 2008 R2 Windows PowerShell 2.0 allows you to automate nearly any task for managing Windows Server, going from dozens of clicks to a single command, and repeated tasks to automated tasks. Using screen shots and helpful exercises, this book walks you through the many benefits of automating Windows Server with PowerShell 2.0, such as allowing for scalable, flexible, and rapid deployments and changes; increasing cost effectiveness; providing a timely return on IT investment; lowering labor headcount; creating secure computing environments; and establishing reliable enterprise infrastructures. In addition, real-world examples provide reinforced learning, aimed at ensuring that you work as efficiently and effectively as possible by automating both simple and complex administrative tasks with Powershell 2.0. Explains how to automate both simple and complex tasks in Windows Server 2008 R2 with Powershell 2.0 Addresses how Windows Server 2008 R2 comes with more than 550 cmdlets, allowing you to automate nearly anything Offers numerous real-world examples, end-of-chapter exercises, and helpful screen shots to reinforce your learning process The power is in your hands! Start working smarter, not harder, by automating Windows Server 2008 R2 tasks with Powershell 2.0.

## **Microsoft System Center Building a**

## **Virtualized Network Solution**

Focused technical guidance from System Center experts Part of a series of specialized guidance on System Center--this book provides a single end-to-end resource on Microsoft's software-defined datacenter solution built upon Windows Server 2012 R2 Hyper-V and System Center 2012 R2 Virtual Machine Manager. The book walks you through a proof of concept (POC) deployment of a software-defined compute, storage, and networking infrastructure, starting from racking bare-metal servers through to the streamlined deployment of virtual machines.

## **Citrix® XenDesktop® 7 Cookbook**

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 enterprises 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 multi-tenant 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

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WindowsServer 2012 Hyper-V virtualization solutions in large enterprisesand small- to medium-businesses Provides deep technical detail and plenty of exercises showingyou how to work with Hyper-V in real-world settings Shows you how to quickly configure Hyper-V from the GUI and usePowerShell 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 DesktopInfrastructure (VDI), and other topics Help make your Hyper-V virtualization solution a success withWindows Server 2012 Hyper-V Installation and ConfigurationGuide.

### **Instant Windows PowerShell**

If you are looking to automate repetitive tasks in Active Directory management using the PowerShell module, then this book is for you. Any experience in PowerShell would be an added advantage.

### **Microsoft System Center - Network Virtualization and Cloud Computing**

Prepare for Microsoft Exam 70-533--and help demonstrate your real-world mastery of Microsoft Azure infrastructure solution implementation. Designed for experienced IT pros ready to advance their status, Exam Ref focuses on the critical-thinking and decision-making acumen needed for success at the Microsoft Specialist level. Focus on the expertise

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measured by these objectives: Deploy, configure, monitor, and scale websites Implement virtual machine workloads, images, disks, networking, and storage Configure, deploy, manage, and monitor cloud services Implement blobs, Azure files, SQL databases, and recovery services Manage access and configure diagnostics, monitoring, and analytics Implement an Azure Active Directory and integrate apps Configure and modify virtual networks, including multisite and hybrid networks This Microsoft Exam Ref: Organizes its coverage by exam objectives Features strategic, what-if scenarios to challenge you Will be valuable for IT pros, including enterprise architects; DevOps, network, server, virtualization, and identity engineers; and storage or security administrators Assumes you have experience implementing Microsoft Azure infrastructure solutions Implementing Microsoft Azure Infrastructure Solutions About the Exam Exam 70-533 focuses on the skills and knowledge needed to implement web- sites, virtual machines, cloud services, storage, Azure Active Directory, and virtual networks with Microsoft Azure. About Microsoft Certification Passing this exam earns you a Microsoft Specialist certification in Microsoft Azure, demonstrating your expertise with the Microsoft Azure enterprise-grade cloud platform. You can earn this certification by passing Exam 70-532, Developing Microsoft Azure Solutions; or Exam 70-533, Imple- menting Microsoft Azure Infrastructure Solutions; or Exam 70-534, Architecting Microsoft Azure Solutions. See full details at: [microsoft.com/learning](https://microsoft.com/learning)

## **PowerShell for Sysadmins**

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 followed by 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

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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.

## Learning Path

This book provides you with an introduction to the Microsoft automation solutions: Azure Automation and Service Management Automation. Throughout the chapters, the text explores these tools and how they can be used to meet the automation needs of your Microsoft Azure cloud solutions or your enterprise datacenter environments. We provide considerations on the features of each solution, and how they can be architected to fit your needs. Next, the text explores the interfaces you will use to interact with the solutions, including the web-based portals, Windows PowerShell command-line interaction, and programmatic access via the web services. The text then covers how you implement and manage automation using runbooks, assets, and Integration Modules, along with how you can use a source control system to manage runbook content. Finally, some examples of automation scenarios are discussed, providing you with samples that can be used to speed development in your own solution.

## Training Guide

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With more than 250 ready-to-use recipes, this solutions-oriented introduction to the Windows PowerShell scripting environment and language provides administrators with the tools to be productive immediately.

### **Windows PowerShell 3.0 Step by Step**

Saute your way through more than 100 hands-on recipes designed to prepare any server administrator to work with Windows Server 2016 About This Book Get the first book on the market to unleash the power of Windows Server 2016, which improves the lives of thousands of enterprise users Be the first to leverage the advent of Containers and Nano Server on Windows Server 2016, which utilizes the resources efficiently and increases productivity. This practical, recipe-based approach helps you to delivering global-scale cloud services into your infrastructure using Windows Server 2016 Who This Book Is For This book is for system administrators and IT professionals with experience in Windows Server 2012 R2 environments who are looking to acquire the skills and knowledge necessary to manage and maintain the core infrastructure required for a Windows Server 2016 environment. What You Will Learn Build the infrastructure required for a successful Windows network Navigate the new Server 2016 interface efficiently Implement solid networking and security practices into your Windows Server environment Design your own PKI and start issuing certificates today Explore the brand-new Nano Server functionality Enable nested virtualization on Hyper-V

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and Server Connect your remote laptops back to the corporate network using Microsoft's own remote access technologies, including DirectAccess Provide a centralized point for users to access applications and data by configuring Remote Desktop Services Compose optimal Group Policies Facilitate task automation with PowerShell 5.0 scripting In Detail This hands-on Cookbook is stuffed full of practical recipes that will help you handle the essential administrative tasks in Windows Server 2016. You'll start by familiarizing yourself with the look and feel of Windows Server 2016, and will then learn how to navigate through some daily tasks using the graphical interface. You will see how to compose optimal Group Policies and facilitate task automation with PowerShell 5.0 scripting. We will also take a look at the functions available to provide remote network access to your traveling users, and explore the much anticipated Nano Server and Hyper-V built-in integration support that is brand new in Windows Server 2016. By the end of this book, you will know how to take your Windows Server 2016-powered server and turn it into any common infrastructure role that might be required in your company. Style and approach The book follows a recipe-based approach that starts with an introduction and the installation of Windows Server 2016, then dives into the powerful features, and then ends with the concept of security.

## **Hyper-V Security**

Your one-stop reference for Windows Server 2019 and PowerShell know-how Windows Server 2019 &

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PowerShell All-in-One For Dummies offers a single reference to help you build and expand your knowledge of all things Windows Server, including the all-important PowerShell framework. Written by an information security pro and professor who trains aspiring system administrators, this book covers the broad range of topics a system administrator needs to know to run Windows Server 2019, including how to install, configure, and secure a system. This book includes coverage of: Installing & Setting Up Windows Server Configuring Windows Server 2019 Administering Windows Server 2019 Configuring Networking Managing Security Working with Windows PowerShell Installing and Administering Hyper-V Installing, Configuring, and Using Containers If you're a budding or experienced system administrator looking to build or expand your knowledge of Windows Server, this book has you covered.

### **Optimizing and Troubleshooting Hyper-V Networking**

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.

### **Introducing Windows Server 2012 R2**

With PowerShell, you can automate tasks with scripts without having to learn the complicated ins and outs of programming. After you familiarise yourself with

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PowerShell's intuitive syntax, you'll apply your knowledge by designing and developing scripts for lots of daily situations IT personnel find themselves in every day. You'll then end with learning how to build a large project to automate server deployments from scratch written completely in PowerShell. Unlock the possibilities with PowerShell!

### **Windows Server 2016 Automation with Powershell Cookbook**

"Windows Server 2012 Hyper-V Cookbook" is a practical cookbook packed with recipes showing and explaining all the features and components of Hyper-V. You'll learn from best practices, tips and tricks and examples of how to automate daily and common tasks. If you are an administrator who wants to master Microsoft Server Virtualization with Windows Server 2012 Hyper-V, then this book is for you. You should be comfortable with virtualization concepts and practices, and knowledge of previous versions of Windows Server would be an advantage.

### **Learn Windows PowerShell 3 in a Month of Lunches**

In-depth and comprehensive, this official RESOURCE KIT delivers the information you need to plan, implement, and manage a virtualized enterprise infrastructure. Covers R2 features. You get authoritative technical guidance from those who know the technology best—leading industry experts and the Windows Virtualization Team—along with sample

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scripts, job aids, and other essential resources. Get expert advice on how to: Manage the project visioning phase—scope, risks, budget Design Hyper-V server infrastructure and components Apply the steps and tools that streamline installation Configure single or multiple Hyper-V servers Plan a server workload consolidation strategy Use console-based tools to manage central and remote operations Minimize downtime when migrating from Microsoft Virtual Server to Hyper-V Apply security best practices Implement business continuity and recovery plans Monitor health and tune performance CD features: Library of Windows PowerShell scripts for automating Hyper-V management tasks Understanding Microsoft Virtualization Solutions From Desktop to Datacenter eBook Job aids and links to useful virtualization-related resources and tools Fully searchable eBook of this guide A Note Regarding the CD or DVD For customers who purchase an ebook version of this title, instructions for downloading the CD files can be found in the ebook.

### **PowerShell 7 for IT Professionals**

"PowerShell is the de facto standard for scripting in Microsoft Windows environments. By knowing how to use PowerShell, you can quickly automate complex, repetitive, and otherwise time-consuming tasks. On the other hand, Windows Server Hyper-V improves the efficiency of your computing resources and frees up your hardware resources."--Resource description page.

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