



Quick answers to common problems

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Over 110 recipes to automate Windows Server administrative tasks using PowerShell

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Windows Server 2012 Automation with Powershell Cookbook Ed Goad, 2013-03-26 Cookbook with recipes based on real life examples This book is written to assist the daily tasks for systems administrators engineers and architects working with Windows Server 2012 *Windows Server 2012 R2 Administrator Cookbook* Jordan Krause, 2015-01-28 This book is intended for system administrators and IT professionals with experience in Windows Server 2008 or Windows Server 2012

environments who are looking to acquire the skills and knowledge necessary to manage and maintain the core infrastructure required for a Windows Server 2012 and Windows Server 2012 R2 environment *Getting Started with Windows Server Security* Santhosh Sivarajan, 2015-02-27 If you are a security or Windows Server administrator wanting to learn or advance your knowledge in Microsoft security and secure your Windows Server infrastructure effectively this book is for you

Active Directory with PowerShell Uma Yellapragada, 2015-01-23 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 **Learning PowerShell DSC** James Pogram, 2015-10-21 Get started with the fundamentals of PowerShell DSC and utilize its power to automate deployment and configuration of your servers About This Book Create flexible and maintainable deployments using DSC configuration scripts that stand the test of time Explore the in depth details of the core architecture concepts and practices used by PowerShell DSC A step by step guide that shows you how to start using and taking advantage of PowerShell DSC Who This Book Is For This book is intended for system administrators developers or engineers who are responsible for configuration management and automation and wish to learn PowerShell Desired State Configuration for efficient management configuration and deployment of systems and applications What You Will Learn Understand configuration management and why you need it Craft flexible reusable and maintainable configuration scripts for thousands of servers Create custom DSC resources to manage any application or server setting Apply configuration data to deploy applications to different environments Utilize DSC push deployments to test your configuration scripts and custom DSC resources Install configure and use DSC pull servers Run a Windows MSI package Deploy a website In Detail Windows PowerShell is a task based command line shell and scripting language designed especially for system administration PowerShell DSC is a new management platform that enables you to deploy and manage configuration data for software services and manage the environment in which these services run This book begins with an overview of the basics of PowerShell DSC by covering the architecture and components of the Desired State Configuration It will then familiarize you with the set of PowerShell language extensions and new PowerShell commands It will help you understand and create DSC configurations with the help of practical examples and to create DSC custom resources for your custom applications Finally you will learn to deploy a real world application using PowerShell DSC By the end of the book you will have better knowledge about the powerful Desired State Configuration platform which helps you to achieve continuous delivery and efficient

management and easy deployment of data for systems

Style and approach This book is an in depth guide to using PowerShell DSC full of real world experiences and best practices using PowerShell DSC The topics are explained and build on one another other to provide a holistic learning experience At the end all the features learned will be used to create a real world application deployment using DSC

Windows Server 2012 Automation with PowerShell Cookbook Ed Goad,2015-01-07 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 administrating 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

Windows Server Automation with PowerShell Cookbook Thomas Lee,Jeffrey Snover,2021-07-30 Develop a holistic understanding of Windows Server with over 100 PowerShell recipes

Key FeaturesUpdated with new recipes on the .NET Framework enterprise server security and managing Windows Server with 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 Windows 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 file systems. 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.

Windows Server 2016 Automation with PowerShell Cookbook Thomas Lee, 2017-09-21. Over 100 recipes to help you leverage PowerShell to automate Windows Server 2016 manual tasks. About This Book: Automate Windows server tasks with the powerful features of the PowerShell Language. Master new features such as DevOps, containers, and Nano servers and speed up their performance using PowerShell. Improve PowerShell's usability and control and manage Windows-based environments by working through inviting recipes. Who This Book Is For: If you are a systems administrator, engineer, or an architect working with Windows Server 2016 and want to automate tasks with PowerShell, then this book is for you. A basic knowledge of PowerShell is expected. What You Will Learn: Streamline routine administration processes. Improve the performance and storage of your Windows server with enhanced large-scale PowerShell scripts. Use DSC to leverage Windows server features. Generate automatic reports that highlight unexpected changes in your environment. Monitor performance and report on system utilization using detailed graphs and analysis. Create and manage a reliable and redundant Hyper-V environment. Manage your enterprise's patch level. Utilize multiple tools and protocols to manage your environment. In Detail: This book showcases several ways that Windows administrators can use to automate and streamline their job. You'll start with the PowerShell and Windows Server fundamentals where you'll become well-versed with PowerShell and Windows Server features. In the next module, Core Windows Server 2016, you'll implement Nano Server, manage Windows updates, and implement troubleshooting and server inventories. You'll then move on to the Networking module where you'll manage Windows network services and network shares. The last module covers Azure and DSC where you will use Azure on

PowerShell and DSC to easily maintain Windows servers Style and approach This is a practical guide packed with attractive recipes to help you effectively use PowerShell to accelerate your daily administrative tasks with Windows server

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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 tips 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 knowledge of PowerShell is expected.

Windows PowerShell Cookbook Lee Holmes, 2012-12-22 How do you use Windows PowerShell to navigate the filesystem, manage files and folders, or retrieve a web page? This introduction to the PowerShell language and scripting environment provides more than 400 task-oriented recipes to help you solve all kinds of problems. Intermediate to advanced system administrators will find more than 100 tried and tested scripts they can copy and use immediately. Updated for PowerShell 3.0, this comprehensive cookbook includes hands-on recipes for common tasks and administrative jobs that you can apply whether you're on the client or server version of Windows. You also get quick references to technologies used in conjunction with PowerShell, including format specifiers and frequently referenced registry keys to selected .NET, COM, and WMI classes. Learn how to use PowerShell on Windows 8 and Windows Server 2012. Tour PowerShell's core features, including the command model, object-based pipeline, and ubiquitous scripting. Master fundamentals such as the interactive shell, pipeline, and object concepts. Perform common tasks that involve working with files, Internet-connected scripts, user interaction, and more. Solve tasks in systems and enterprise management such as working with Active Directory and the filesystem.

Windows PowerShell Cookbook Lee Holmes, 2010-08-13 Do you know how to use Windows PowerShell to navigate the filesystem and manage files and folders? Or how to retrieve a web page? This introduction to the PowerShell language and scripting environment provides more than 430 task-oriented recipes to help you solve the most complex and pressing problems, and

includes more than 100 tried and tested scripts that intermediate to advanced system administrators can copy and use immediately You ll find hands on tutorials on fundamentals common tasks and administrative jobs that you can apply whether you re on a client or server version of Windows You also get quick references to technologies used in conjunction with PowerShell including format specifiers and frequently referenced registry keys to selected NET COM and WMI classes With Windows PowerShell Cookbook you ll get more done in less time Take a tour of PowerShell s core features including the command model object based pipeline and ubiquitous scripting Learn PowerShell fundamentals such as the interactive shell and fundamental pipeline and object concepts Perform common tasks that involve working with files Internet connected scripts user interaction and more Solve tasks in systems and enterprise management such as working with Active Directory the filesystem registry event logs processes and services

PowerShell Cookbook Lee Holmes,2021-06-16 How do you use PowerShell to navigate the filesystem manage files and folders or retrieve a web page This introduction to the PowerShell language and scripting environment provides more than 400 task oriented recipes to help you solve all kinds of problems Intermediate to advanced system administrators will find more than 100 tried and tested scripts they can copy and use immediately Updated for PowerShell 5.1 and Open Source PowerShell up to 7.0 and beyond this comprehensive cookbook includes hands on recipes for common tasks and administrative jobs that you can apply whether you re on the client or server version of Windows You also get quick references to technologies used in conjunction with PowerShell including regular expressions the XPath language format specifiers and frequently referenced NET COM and WMI classes Learn how to use PowerShell on Windows 10 and Windows Server 2019 Tour PowerShell s core features including the command model object based pipeline and ubiquitous scripting Master fundamentals such as the interactive shell pipeline and object concepts Perform common tasks that involve working with files internet connected scripts user interaction and more Solve tasks in systems and enterprise management such as working with Active Directory and the filesystem

Windows Server 2016 Automation with Powershell Cookbook Thomas Lee,2017-09-21 Over 100 recipes to help you leverage PowerShell to automate Windows Server 2016 manual tasksAbout 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 recipesWho This Book Is ForIf you are a systems administrator engineer or an architect working with Windows Server 2016 and want to automate tasks with PowerShell then this book is for you A basic knowledge of PowerShell is expected What You Will Learn Streamline routine administration processes Improve the performance and storage of your Windows server with enhanced large scale PowerShell scripts Use DSC to leverage Windows server features Generate automatic reports that highlight unexpected changes in your environment Monitor performance and report on system utilization using detailed graphs and analysis Create and manage a reliable and redundant

Hyper V environment Manage your enterprise s patch level Utilize multiple tools and protocols to manage your environment In Detail This book showcases several ways that Windows administrators can use to automate and streamline their job You ll start with the PowerShell and Windows Server fundamentals where you ll become well versed with PowerShell and Windows Server features In the next module Core Windows Server 2016 you ll implement Nano Server manage Windows updates and implement troubleshooting and server inventories You ll then move on to the Networking module where you ll manage Windows network services and network shares The last module covers Azure and DSC where you will use Azure on PowerShell and DSC to easily maintain Windows servers Style and approach This is a practical guide packed with attractive recipes to help you effectively use PowerShell to accelerate your daily administrative tasks with Windows server *Windows PowerShell Cookbook, 3rd Edition* Lee Holmes, 2013 **Windows PowerShell Cookbook** Lee Holmes, 2010 Windows PowerShell Best Practices Ed Wilson, 2014-01-15 Expert recommendations pragmatically applied Automate system administration using Windows PowerShell best practices and optimize your operational efficiency With this practical guide Windows PowerShell expert and instructor Ed Wilson delivers field tested tips real world examples and candid advice culled from administrators across a range of business and technical scenarios If you re an IT professional with Windows PowerShell experience this book is ideal Discover how to Use Windows PowerShell to automate Active Directory tasks Explore available WMI classes and methods with CIM cmdlets Identify and track scripting opportunities to avoid duplication Use functions to encapsulate business logic and reuse code Design your script s best input method and output destination Test scripts by checking their syntax and performance Choose the most suitable method for running remote commands Manage software services with Desired State Configuration Microsoft Exchange Server 2013 Powershell Cookbook Jonas Andersson, 2013-05-22 This book is written in a Cookbook style format and provides practical immediately usable task based recipes that show you how to manage and maintain your Microsoft Exchange Server 2013 environment with Windows PowerShell 3 Each chapter of the book is written so that it can be used as a desktop reference or it can be read from beginning to end allowing you to build a solid foundation for building scripts in your Exchange environment This Cookbook is for messaging professionals who want to learn how to build real world scripts with Windows PowerShell 3 and the Exchange Management Shell If you are a network or systems administrator responsible for managing and maintaining Exchange Server 2013 you will find this highly useful Only basic knowledge of Exchange Server and PowerShell are required to make the most of this book *Powershell Core 6.2 Cookbook* Jan-Hendrik Peters, 2019-04-19 Make use of hands on recipes for many tasks that are typically encountered in both the on premises as well as the cloud world Key Features A recipe based guide to help you build effective administrative solutions Gain hands on experience with the newly added features of PowerShell Core Manage critical business environments with professional scripting practices Book Description This book will follow a recipe based approach and start off with an introduction to the fundamentals of PowerShell and

explaining how to install and run it through simple examples Next you will learn how to use PowerShell to access and manipulate data and how to work with different streams as well You will also explore the object model which will help with regard to PowerShell function deployment Going forward you will get familiar with the pipeline in its different use cases The next set of chapters will deal with the different ways of accessing data in PowerShell You will also learn to automate various tasks in Windows and Linux using PowerShell Core as well as explore Windows Server Later you will be introduced to Remoting in PowerShell Core and Just Enough Administration concept The last set of chapters will help you understand the management of a private and public cloud with PowerShell Core You will also learn how to access web services and explore the high performance scripting methods By the end of this book you will gain the skills to manage complex tasks effectively along with increasing the performance of your environment What you will learn Leverage cross platform interaction with systems Make use of the PowerShell recipes for frequent tasks Get a better understanding of the inner workings of PowerShell Understand the compatibility of built in Windows modules with PowerShell Core Learn best practices associated with PowerShell scripting Avoid common pitfalls and mistakes Who this book is for This book will be for windows administrators who want to enhance their PowerShell scripting skills to the next level System administrators wanting to automate common to complex tasks with PowerShell scripts would benefit from this book Prior understanding on PowerShell would be necessary

Windows PowerShell 3.0 Step by Step Ed Wilson, 2013-02-15 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

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