

Windows Server 2016 Automation With PowerShell Cookbook Second Edition Powerful Ways To Automate And Manage Windows Administrative Tasks

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Microsoft Azure Essentials - Fundamentals of Azure - Michael Collier 2015-01-29

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.

Windows Server 2016 Automation with PowerShell Cookbook - Thomas Lee
2017-09-21

Over 100 recipes to help you leverage PowerShell to automate Windows Server 2016 manual tasks About This Book Automate Windows server tasks with the powerful features of the PowerShell Language Master new features such as DevOps, containers, and Nano servers, and speed up their performance using PowerShell Improve PowerShell's usability, and control and manage Windows-based environments by working through inviting recipes Who This Book Is For If you are a systems administrator, engineer, or an architect working with Windows Server 2016 and want to automate tasks with PowerShell, then this book is for you. A basic knowledge of PowerShell is expected. What You Will Learn Streamline routine administration processes Improve the performance and storage of your Windows server with enhanced large-scale PowerShell scripts Use DSC to leverage Windows server features Generate automatic reports that highlight unexpected changes in your

environment Monitor performance and report on system utilization using detailed graphs and analysis Create and manage a reliable and redundant Hyper-V environment Manage your enterprise's patch level Utilize multiple tools and protocols to manage your environment In Detail This book showcases several ways that Windows administrators can use to automate and streamline their job. You'll start with the PowerShell and Windows Server fundamentals, where you'll become well versed with PowerShell and Windows Server features. In the next module, Core Windows Server 2016, you'll implement Nano Server, manage Windows updates, and implement troubleshooting and server inventories. You'll then move on to the Networking module, where you'll manage Windows network services and network shares. The last module covers Azure and DSC, where you will use Azure on PowerShell and DSC to easily maintain Windows servers. Style and approach This is a practical guide packed with

attractive recipes to help you effectively use PowerShell to accelerate your daily administrative tasks with Windows server.

Windows Server 2016 Hyper-V Cookbook - Patrick Lownds 2017-01-18

Save time and resources by getting to know the best practices and intelligence from industry experts About This Book This book helps you gain a fresh perspective through a recipe-based approach on the new Microsoft Server 2016 Hyper-V Over 80 recipes to help you master the administrative tasks of Hyper-V and get to grips with advanced solutions and techniques for virtualization These hands-on advanced recipes will help you deploy, maintain, and upgrade Hyper-V virtual machines Who This Book Is For This book is for Hyper-V administrators who are looking to take advantage of all exciting new features that Microsoft Server 2016 Hyper-V has to offer. What You Will Learn Install and manage Hyper-V in Full, Server Core, and Nano Server Get to know how to migrate and upgrade

physical and virtual machines Configure disks, network, memory, security, and auditing settings for virtual machines Take a deep dive into high availability and disaster recovery Save time and money by getting to grips with PowerShell automation Understand the new features around network and nested virtualization, distributed storage QoS, Hyper-V Replica, and much more Gain a full view of your virtual machines and host servers through monitoring, reporting, and troubleshooting tips In Detail Hyper-V is a Windows-based, very cost-effective virtualization solution with easy-to-use and well-known administrative consoles. With this book on your side you will master the worlds of Hyper-V deployment, migration, and management by learning tips, tricks, and best practices, especially when it comes to advanced-level tasks. You will learn how to quickly deploy and automate multiple VMs, and support Hyper-V clusters through different installation methods. You will learn the concepts efficiently with the

help of up-to-date real-world examples and improve the scalability and efficiency of large-scale VM deployments with Nano Server. By the end of this book, you will be an ace Windows Server 2016 Hyper-V with the skills needed to administer and manage it effectively and survive in the brave new world of mobile-first, cloud-first. Further, take advantage of bonus appendix explaining Hyper-V and backup architecture and the difference between versions. Style and approach This advanced-level book provides step-by-step recipes on real-world examples so you can get practical, hands-on experience of the subjects.

Troubleshooting Windows Server with PowerShell - Derek Schauland 2016-04-29

This book shows you how to use PowerShell to quickly pinpoint, diagnose, and solve problems with your Windows Server environment, reducing the need for external tools, and ensuring you stay up-to-date with PowerShell as it quickly becomes one of the most useful tools

in an administrator's toolkit. Authors Derek Schauland and Donald Jacobs take you through a range of examples, showing you how to gather information from different computer sources. Whether you are logged into the server locally or just wanting to check the status of a server from your local computer, the right PowerShell cmdlets can give you a lot of information quickly, and allow you to troubleshoot your servers from the command line with little interaction with the server's desktop. In this book, you'll learn how PowerShell can help you: Understand PowerShell versus the GUI Gather information from Windows event logs Gather information from your server, including memory, hardware configurations, and disk space available Find out what applications are installed on a server Find out which Windows updates have been installed on your computer Check the processes running on your computer and gather information about them, or start and stop them from the command line Quickly check if services are running, and

stop or start them as needed Who This Book Is For Windows Administrators, IT Professionals and support personnel needing ways to quickly find and troubleshoot issues in their environment using the included tools. Those entering IT or wishing to develop their PowerShell skills will also benefit from this book. **Pro Microsoft Hyper-V 2019** - Andy Syrewicze 2018-10-31

Successfully create and manage your Hyper-V environment without any of the marketing fluff. This book's lab-driven, hands-on approach will get you up and running as quickly and efficiently as possible. Virtualization is the cornerstone of today's data center. As a modern-day IT pro, you are required to manage environments that are in a regular state of flux and increasing in both size and complexity. To keep up, you need practical information in a format that is succinct, yet comprehensive and highly applicable. Pro Hyper-V 2019 breaks down critical and time-saving topics into a series of easy-to-digest

chapters, showing you how to perform Hyper-V management tasks using both GUI and PowerShell-based tools. Building on your existing knowledge of Windows Server management, Active Directory, networking, and storage, experts and Microsoft MVPs Syrewicze and Siddaway begin with a foundation of why computing workloads are virtualized. This is 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 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.

Mastering Windows Server 2019 - Jordan Krause 2019-03-18

Enhance and secure your datacenter with the newest Microsoft server platform Key FeaturesDevelop necessary skills to design and implement Microsoft Server 2019 in enterprise environmentProvide support to your medium to large enterprise and leverage your experience in administering Microsoft Server 2019Effectively administering Windows server 2019 with the help of practical examplesBook Description Mastering Windows Server 2019 - Second Edition covers all of the essential information needed to implement and utilize this latest-and-greatest platform as the core of your data center

computing needs. You will begin by installing and managing Windows Server 2019, and by clearing up common points of confusion surrounding the versions and licensing of this new product. Centralized management, monitoring, and configuration of servers is key to an efficient IT department, and you will discover multiple methods for quickly managing all of your servers from a single pane of glass. To this end, you will spend time inside Server Manager, PowerShell, and even the new Windows Admin Center, formerly known as Project Honolulu. Even though this book is focused on Windows Server 2019 LTSC, we will still discuss containers and Nano Server, which are more commonly related to the SAC channel of the server platform, for a well-rounded exposition of all aspects of using Windows Server in your environment. We also discuss the various remote access technologies available in this operating system, as well as guidelines for virtualizing your data center with Hyper-V. By

the end of this book, you will have all the ammunition required to start planning for, implementing, and managing Windows. What you will learn Work with the updated Windows Server 2019 interface, including Server Core and Windows Admin Center Secure your network and data with new technologies in Windows Server 2019 Learn about containers and understand the appropriate situations to use Nano Server Discover new ways to integrate your data center with Microsoft Azure Harden your Windows Servers to help keep the bad guys out Virtualize your data center with Hyper-V Who this book is for If you are a System Administrator or an IT professional interested in designing and deploying Windows Server 2019 then this book is for you. Previous experience of Windows Server operating systems and familiarity with networking concepts is required. [Introducing Microsoft SQL Server 2016](#) - Stacia Varga 2016-06-28 With Microsoft SQL Server 2016, a variety of

new features and enhancements to the data platform deliver breakthrough performance, advanced security, and richer, integrated reporting and analytics capabilities. In this ebook, we introduce new security features: Always Encrypted, Row-Level Security, and dynamic data masking; discuss enhancements that enable you to better manage performance and storage: TemDB configuration, query store, and Stretch Database; review several improvements to Reporting Services; and also describe AlwaysOn Availability Groups, tabular enhancements, and R integration.

Learning PowerShell DSC - Second Edition - James Pograd 2017-09-07

A learning guide to get you started with PowerShell DSC. About This Book* Create flexible and maintainable deployments using DSC configuration scripts that stand the test of time.* Explore the core architecture, concepts, and practices in depth.* Learning PowerShell DSC is a step-by-step guide that shows you how

to start using and taking advantage of PowerShell DSC along with configuring and deploying applications. Who This Book Is For If you are a system administrator, developer, or engineer and are responsible for configuration management and automation, then this book is for you. IT professionals who wish to learn PowerShell Desired State Configuration for the efficient management, configuration, and deployment of systems will also find this book useful. What You Will Learn* Explore PowerShell Desired State Configuration and activities around it, including the need for configuration management and abstraction.* Create reusable DSC configurations and debug/ troubleshoot configuration files.* Learn about the PowerShell DSC architecture with the help of push-and-pull management and workflows.* Define DSC configuration scripts and data files and push DSC configuration files remotely and locally.* Validate DSC Pull Server install and register target nodes with a DSC Pull Server.* Learn

about DSC Cross Platform and install PowerShell on Linux and macOS along with real-life DSC uses and different types of deployment. In Detail The main goal of this book is to teach you to configure, deploy, and manage your system using the new features of PowerShell v5/v6 DSC. This book begins with the basics of PowerShell Desired State Configuration, covering its architecture and components. It familiarizes you with the set of Windows PowerShell language extensions and new Windows PowerShell commands that make up DSC. Then it helps you create DSC custom resources and work with DSC configurations with the help of practical examples. Finally, it describes how to deploy configuration data using PowerShell DSC. Throughout this book, we will be focusing on concepts such as building configurations with parameters, the local configuration manager, and testing and restoring configurations using PowerShell DSC. By the end of the book, you will be able to

deploy a real-world application end-to-end and will be familiar enough with the powerful Desired State Configuration platform to achieve continuous delivery and efficiently and easily manage and deploy data for systems. Style and approach The purpose of this book is to introduce readers to the powerful PowerShell Desired State Configuration platform to achieve continuous delivery, efficient management, and the easy deployment of data for systems.

Windows PowerShell 2.0 Bible - Thomas Lee
2011-09-26

Here's the complete guide to Windows PowerShell 2.0 for administrators and developers. Windows PowerShell is Microsoft's next-generation scripting and automation language. This comprehensive volume provides the background that IT administrators and developers need in order to start using PowerShell automation in exciting new ways. It explains what PowerShell is, how to use the language, and specific ways to apply PowerShell

in various technologies. Windows PowerShell is Microsoft's standard automation tool and something that every Windows administrator will eventually have to understand; this book provides the background necessary to apply PowerShell automation. Covers how to use the language and specific ways to apply PowerShell in a variety of scenarios. Addresses new features in the latest version of PowerShell and the additional functionality delivered by new products that provide direct or indirect ways to use PowerShell for scripting and automation purposes. Explores the language fundamentals and how to use PowerShell for desktop, server, server application, and virtualization/cloud situations. This thorough guide goes well beyond theory to offer real-world information and new scripting techniques, enabling administrators and developers to make the most of PowerShell 2.0.

Windows Server 2016 Hyper-V Cookbook - Second Edition - Charbel Nemnom 2016-10-31

Save time and resources by getting to know the best practices and intelligence from industry experts. About This Book* This book helps you gain a fresh perspective through a recipe-based approach on the new Microsoft Server 2016 Hyper-V* Over 80 recipes to help you master the administrative tasks of Hyper-V and get to grips with advanced solutions and techniques for virtualization* These hands-on advanced recipes will help you deploy, maintain, and upgrade Hyper-V virtual machines. Who This Book Is For* This book is for Hyper-V administrators who are looking to take advantage of all exciting new features that Microsoft Server 2016 Hyper-V has to offer. What you will learn* Install and manage Hyper-V in Full, Server Core, and Nano Server* Get to know how to migrate and upgrade physical and virtual machines* Configure disks, network, memory, security, and auditing settings for virtual machines* Take a deep dive into high availability and disaster recovery* Save time and money by getting to grips with PowerShell

automation* Understand the new features around network and nested virtualization, distributed storage QoS, Hyper-V Replica, and much more* Gain a full view of your virtual machines and host servers through monitoring, reporting, and troubleshooting tips* Take advantage of a bonus appendix that explains Hyper-V and backup architecture and the difference between versions of Hyper-VIn DetailHyper-V is a Windows-based, very cost-effective virtualization solution with easy-to-use and well-known administrative consoles.You will master Hyper-V deployment, migration, and management by learning tips, tricks, and best practices, especially when it comes to advanced-level tasks.You will learn how to quickly deploy and automate multiple VMs, and support Hyper-V clusters through different installation methods. You will learn the concepts efficiently with the help of up-to-date real-world examples and improve the scalability and efficiency of large-scale VM deployments with Nano

Server.By the end of this book, you will be an ace Windows Server 2016 Hyper-V with the skills needed to administer and manage it effectively and survive in the brave new world of mobile-first, cloud-first. Further, take advantage of bonus appendix explaining Hyper-V and backup architecture and the difference between versions.

[Learn PowerShell Scripting in a Month of Lunches](#) - Don Jones 2017-11-11

Summary Discover how scripting is different from command-line PowerShell, as you explore concrete hands-on examples in this handy guide. The book includes and expands on many of the techniques presented in Learn PowerShell Toolmaking in a Month of Lunches. Purchase of the print book includes a free eBook in PDF, Kindle, and ePub formats from Manning Publications. About the Technology Automate it! With Microsoft's PowerShell language, you can write scripts to control nearly every aspect of Windows. Just master a few straightforward

scripting skills, and you'll be able to eliminate repetitive manual tasks, create custom reusable tools, and build effective pipelines and workflows. Once you start scripting in PowerShell, you'll be amazed at how many opportunities you'll find to save time and effort. About the Book Learn PowerShell Scripting in a Month of Lunches teaches you how to expand your command-line PowerShell skills into effective scripts and tools. In 27 bite-size lessons, you'll discover instantly useful techniques for writing efficient code, finding and squashing bugs, organizing your scripts into libraries, and much more. Advanced scripters will even learn to access the .NET Framework, store data long term, and create nice user interfaces. What's Inside Designing functions and scripts Effective pipeline usage Dealing with errors and bugs Professional-grade scripting practices About the Reader Written for devs and IT pros comfortable with PowerShell and Windows. About the Authors Don Jones is a

PowerShell MVP, speaker, and trainer who has written dozens of books on information technology topics. Jeffery Hicks is a PowerShell MVP and an independent consultant, trainer, and author. Don and Jeff coauthored Manning's Learn Windows PowerShell in a Month of Lunches, Learn PowerShell Toolmaking in a Month of Lunches, and PowerShell in Depth. Table of Contents PART 1 - INTRODUCTION TO SCRIPTING Before you begin Setting up your scripting environment WWPd: what would PowerShell do? Review: parameter binding and the PowerShell pipeline Scripting language crash course The many forms of scripting (and which to use) Scripts and security PART 2 - BUILDING A POWERSHELL SCRIPT Always design first Avoiding bugs: start with a command Building a basic function and script module Going advanced with your function Objects: the best kind of output Using all the pipelines Simple help: making a comment Dealing with errors Filling out a manifest PART 3 - GROWN-

UP SCRIPTING Changing your brain when it comes to scripting Professional-grade scripting An introduction to source control with git Pestering your script Signing your script Publishing your script PART 4 - ADVANCED TECHNIQUES Squashing bugs Making script output prettier Wrapping up the .NET Framework Storing data-not in Excel! Never the end

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.

Exam Ref 70-740 Installation, Storage and Compute with Windows Server 2016 - Craig Zacker 2017-01-17

Prepare for Microsoft Exam 70-740—and help demonstrate your real-world mastery of Windows Server 2016 installation, storage, and

compute features and capabilities. Designed for experienced IT professionals ready to advance their status, Exam Ref focuses on the critical-thinking and decision-making acumen needed for success at the MCSA level. Focus on the expertise measured by these objectives: • Install Windows Servers in host and compute environments • Implement storage solutions • Implement Hyper-V • Implement Windows containers • Implement high availability • Maintain and monitor server environments This Microsoft Exam Ref: • Organizes its coverage by exam objectives • Features strategic, what-if scenarios to challenge you • Assumes you have experience working with Windows Server in an enterprise environment; are familiar with core networking infrastructure, topologies, architectures, and protocols; and have experience with Windows clients and virtualization About the Exam Exam 70-740 focuses on the skills and knowledge necessary to implement and configure storage and compute

features and functionality in Windows Server 2016. About Microsoft Certification Passing this exam earns you credit toward a Microsoft Certified Solutions Associate (MCSA) certification that demonstrates your mastery of core Windows Server 2016 skills for reducing IT costs and delivering more business value. Exam 70-741 (Networking with Windows Server 2016) and Exam 70-742 (Identity with Windows Server 2016) are also required for MCSA: Windows Server 2016 certification. See full details at: microsoft.com/learning

Windows PowerShell Cookbook - Lee Holmes
2010-08-20

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.

Mastering Windows PowerShell Scripting - Chris Dent
2017-10-27

Master the art of automating and managing your

environment using PowerShell About This Book Find quick solutions to automate your environment with ease Work with large amounts of data effortlessly with PowerShell data types and secure them Packed with real-world examples to automate and simplify the management of your Windows environment Who This Book Is For If you are a system administrator who wants to become an expert in controlling and automating your Windows environment, then this book is for you. It is also for those new to the PowerShell language. What You Will Learn Optimize code through the use of functions, switches, and looping structures Install PowerShell on your Linux system Utilize variables, hashes, and arrays to store data Work with Objects and Operators to test and manipulate data Parse and manipulate different data types Write .NET classes with ease within the PowerShell Create and implement regular expressions in PowerShell scripts Deploy applications and code with PowerShell's Package

management modules Leverage session-based remote management Manage files, folders, and registries through the use of PowerShell In Detail PowerShell scripts offer a handy way to automate various chores. Working with these scripts effectively can be a difficult task. This comprehensive guide starts from scratch and covers advanced-level topics to make you a PowerShell expert. The first module, PowerShell Fundamentals, begins with new features, installing PowerShell on Linux, working with parameters and objects, and also how you can work with .NET classes from within PowerShell. In the next module, you'll see how to efficiently manage large amounts of data and interact with other services using PowerShell. You'll be able to make the most of PowerShell's powerful automation feature, where you will have different methods to parse and manipulate data, regular expressions, and WMI. After automation, you will enter the Extending PowerShell module, which covers topics such as asynchronous

processing and, creating modules. The final step is to secure your PowerShell, so you will land in the last module, Securing and Debugging PowerShell, which covers PowerShell execution policies, error handling techniques, and testing. By the end of the book, you will be an expert in using the PowerShell language. Style and approach This practical guide covers all the advanced PowerShell functionalities that an administrator needs to learn to automate their environments.

[Learning PowerCLI](#) - Robert van den Nieuwendijk 2017-02-23

Learn to leverage the power of PowerCLI to automate your VMware vSphere environment with ease About This Book This is first book on the market that will enlighten you on the latest version of PowerCLI and how to implement it Effectively manage virtual machines, networks, and reports with the latest features of PowerCLI A comprehensive and practical book on automating VMware vSphere Who This Book Is

For This book is ideal for you if you want to learn how to automate your VMware vSphere or vCloud infrastructure by getting the most out of PowerCLI. It's assumed that you have some experience in administrating a vSphere or vCloud environment. Knowledge of Microsoft's Windows PowerShell is not a prerequisite. What You Will Learn Explore PowerShell and PowerCLI cmdlets and their output objects See how to manage virtual machines and work with virtual networks Manage vCloud Director from PowerCLI Use Site Recovery Manager from PowerCLI to create a disaster recovery solution Manage NSX and vRealize Automation using REST API with PowerCLI Create and configure vSphere HA and DRS clusters Use vSphere Update Manager with PowerCLI to create patch baselines and scan hosts Explore reporting techniques to retrieve log files In Detail VMware vSphere PowerCLI, a free extension to Microsoft Windows PowerShell, enables you to automate the management of a VMware vSphere or

vCloud environment. This book will show you how to automate your tasks and make your job easier. Starting with an introduction to the basics of PowerCLI, the book will teach you how to manage your vSphere and vCloud infrastructure from the command line. To help you manage a vSphere host overall, you will learn how to manage vSphere ESXi hosts, host profiles, host services, host firewall, and deploy and upgrade ESXi hosts using Image Builder and Auto Deploy. The next chapter will not only teach you how to create datastore and datastore clusters, but you'll also work with profile-driven and policy-based storage to manage your storage. To create a disaster recovery solution and retrieve information from vRealize Operations, you will learn how to use Site Recovery Manager and vRealize Operations respectively. Towards the end, you'll see how to use the REST APIs from PowerShell to manage NSX and vRealize Automation and create patch baselines, scan hosts against the baselines for

missing patches, and re-remediate hosts. By the end of the book, you will be capable of using the best tool to automate the management and configuration of VMware vSphere. Style and approach This comprehensive book will teach system administrators everything about PowerCLI 6 and how to utilize it to automate VMware vSphere.

Windows Server Automation with PowerShell Cookbook - Fourth Edition -

Thomas Lee 2021-07-30

Over 100 PowerShell recipes for working more effectively with Windows Server 2022/2019 Key Features: Develop a holistic understanding of Windows Server 2022/2019 with PowerShell 7.1 Learn best practices for PowerShell scripting to automate common tasks and manage AD, enterprise security, WMI, 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 2022/2019 in an enterprise setting. Brand new to this edition are recipes exploring the .NET Framework, enterprise server security, and managing Windows Server with Windows Management Instrumentation (WMI). 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 2022/2019 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 2022/2019 seeking to automate tasks more effectively with PowerShell 7.1. Basic knowledge of PowerShell is expected.

Windows Server 2019 Cookbook - Mark Henderson 2020-07-22
Efficiently manage and administer enterprise

environments using Microsoft Windows Server 2019 Key FeaturesLeverage Windows Server 2019 to improve enterprise workflow efficiency and increase productivityDeliver enterprise-grade cloud services that can be applied in your infrastructureGet up and running with PowerShell and the all-new Hyper-V improvementsBook Description Do you want to get up and running with essential administrative tasks in Windows Server 2019? This second edition of the Windows Server 2019 Cookbook is packed with practical recipes that will help you do just that. The book starts by taking you through the basics that you need to know to get a Windows Server operating system working, before teaching you how to navigate through daily tasks using the upgraded graphical user interface (GUI). You'll then learn how to compose an optimal Group Policy and perform task automation with PowerShell scripting. As you advance, you'll get to grips with faster app innovation, improved Windows security

measures, and hybrid cloud environments. After you've explored the functions available to provide remote network access to your users, you'll cover the new Hyper-V enhancements. Finally, this Windows Server book will guide you through practical recipes relating to Azure integration and important tips for how to manage a Windows Server environment seamlessly. By the end of this book, you'll be well-versed with Windows Server 2019 essentials and have the skills you need to configure Windows services and implement best practices for securing a Windows Server environment. What you will learn Get up and running with Windows Server 2019's new features Install, configure, and administer Windows Server 2019 effectively Configure the server to host any enterprise application Discover ways to manage a server without a GUI Safeguard your virtual machines in the event of server failure Explore new ways to integrate Windows Server with Microsoft

AzureDeploy Windows containers using Docker Who this book is for This Windows Server 2019 book is for system administrators and IT professionals who have basic experience in Windows environments and are interested in acquiring the skills and knowledge needed to manage and maintain the core infrastructure required for a Windows Server 2019 environment.

PowerShell: Automating Administrative Tasks - Michael Shepard 2017-02-24

Learn PowerShell from the inside out, right from basic scripting all the way to becoming a master at automating, managing, and maintaining your Windows environment About This Book Use proven best practices to optimize code and automate redundant tasks Get to grips with PowerShell's advanced functions and effectively administer your system Create a variety of PowerShell scripts to automate your environment Who This Book Is For If you are a system administrator who wants to become an

expert in automating and managing your Windows environment, then this course is for you. Some basic understanding of PowerShell would be helpful. What You Will Learn Discover PowerShell commands and cmdlets and understand PowerShell formatting Solve common problems using basic file input/output functions Use .NET classes in Windows PowerShell and C# and manage Exchange Online Use PowerShell in C# to manage Exchange Online and work with .NET classes in PowerShell Automate LYNC clients, consuming client-side object models to administrate SharePoint Online Optimize code through the use of functions, switches, and looping structures Manage files, folders, and registries through the use of PowerShell Discover best practices to manage Microsoft systems In Detail Are you tired of managing Windows administrative tasks manually and are looking to automate the entire process? If yes, then this is the right course for you. This learning path

starts your PowerShell journey and will help you automate the administration of the Windows operating system and applications that run on Windows. It will get you up and running with PowerShell, taking you from the basics of installation to writing scripts and performing web server automation. You will explore the PowerShell environment and discover how to use cmdlets, functions, and scripts to automate Windows systems. The next installment of the course focuses on gaining concrete knowledge of Windows PowerShell scripting to perform professional-level scripting. The techniques here are packed with PowerShell scripts and sample C# code to automate tasks. You will use .NET classes in PowerShell and C# to manage Exchange Online. In the final section, you will delve into real-world examples to learn how to simplify the management of your Windows environment. You will get to grips with PowerShell's advanced functions and how to most effectively administer your system. This

Learning Path combines some of the best that Packt has to offer in one complete, curated package. It includes content from the following Packt products: *Getting Started with PowerShell* by Michael Shepard *Windows PowerShell for .Net Developers Second Edition* by Chendrayan Venkatesan and Sherif Talaat *Mastering Windows PowerShell Scripting* by Brenton J.W. Blawat Style and approach This is a step-by-step course to help you effectively administer and maintain your development environment with PowerShell.

[SQL Server 2017 Administration Inside Out](#) -

William Assaf 2018-02-26

Conquer SQL Server 2017 administration—from the inside out Dive into SQL Server 2017 administration—and really put your SQL Server DBA expertise to work. This supremely organized reference packs hundreds of timesaving solutions, tips, and workarounds—all you need to plan, implement, manage, and secure SQL Server 2017 in any production

environment: on-premises, cloud, or hybrid. Four SQL Server experts offer a complete tour of DBA capabilities available in SQL Server 2017

Database Engine, SQL Server Data Tools, SQL Server Management Studio, and via PowerShell.

Discover how experts tackle today's essential tasks—and challenge yourself to new levels of mastery.

- Install, customize, and use SQL Server 2017's key administration and development tools
- Manage memory, storage, clustering, virtualization, and other components
- Architect and implement database infrastructure, including IaaS, Azure SQL, and hybrid cloud configurations
- Provision SQL Server and Azure SQL databases
- Secure SQL Server via encryption, row-level security, and data masking
- Safeguard Azure SQL databases using platform threat protection, firewalling, and auditing
- Establish SQL Server IaaS network security groups and user-defined routes
- Administer SQL Server user security and permissions
- Efficiently design tables using

keys, data types, columns, partitioning, and views • Utilize BLOBs and external, temporal, and memory-optimized tables • Master powerful optimization techniques involving concurrency, indexing, parallelism, and execution plans • Plan, deploy, and perform disaster recovery in traditional, cloud, and hybrid environments For Experienced SQL Server Administrators and Other Database Professionals • Your role: Intermediate-to-advanced level SQL Server database administrator, architect, developer, or performance tuning expert • Prerequisites: Basic understanding of database administration procedures

Getting Started with PowerShell - Michael Shepard 2015-08-27

Learn the fundamentals of PowerShell to build reusable scripts and functions to automate administrative tasks with Windows About This Book Harness the capabilities of the PowerShell system to get started quickly with server automation Learn to package commands into a

reusable script and add control structures and parameters to make them flexible Get to grips with cmdlets that allow you to perform administration tasks efficiently Who This Book Is For This book is intended for Windows administrators or DevOps users who need to use PowerShell to automate tasks. Whether you know nothing about PowerShell or know just enough to get by, this guide will give you what you need to go to take your scripting to the next level. What You Will Learn Learn to verify your installed version of PowerShell, upgrade it, and start a PowerShell session using the ISE Discover PowerShell commands and cmdlets and understand PowerShell formatting Use the PowerShell help system to understand what particular cmdlets do Utilise the pipeline to perform typical data manipulation Package your code in scripts, functions, and modules Solve common problems using basic file input/output functions Find system information with WMI and CIM Automate IIS functionality and manage it

using the WebAdministration module In Detail Windows PowerShell is a task-based command-line shell and scripting language designed specifically for system administration. Built on the .NET Framework, Windows PowerShell helps IT professionals and power users control and automate the administration of the Windows operating system and applications that run on Windows. PowerShell is great for batch importing or deleting large sets of user accounts and will let you collect a massive amount of detailed system information in bulk via WMI (Windows Management Instrumentation). Getting Started with PowerShell is designed to help you get up and running with PowerShell, taking you from the basics of installation, to writing scripts and web server automation. This book, as an introduction to the central topics of PowerShell, covers finding and understanding PowerShell commands and packaging code for reusability, right through to a practical example of automating IIS. It also includes topics such as

installation and setup, creating scripts, automating tasks, and using Powershell to access data stores, registry, and file systems. You will explore the PowerShell environment and discover how to use cmdlets, functions, and scripts to automate Windows systems. Along the way, you will learn to perform data manipulation and solve common problems using basic file input/output functions. By the end of this book, you will be familiar with PowerShell and be able to utilize the lessons learned from the book to automate your servers. Style and approach A practical learning guide, complete with plenty of activities, examples and screenshots.

Mastering Windows Server 2016 - Jordan Krause 2016-10-25

A comprehensive and practical guide to Windows Server 2016 About This Book In-depth coverage of new features of Windows Server 2016 Gain the necessary skills and knowledge to design and implement Microsoft Server 2016 in enterprise environment Know how you can

support your medium to large enterprise and leverage your experience in administering Microsoft Server 2016, A practical guide to administering Windows server 2016 Who This Book Is For The book is targeted at System Administrators and IT professionals who would like to design and deploy Windows Server 2016 (physical and logical) Enterprise infrastructure. Previous experience of Windows Server operating systems and familiarity with networking concepts is assumed. System administrators who are upgrading or migrating to Windows Server 2016 would also find this book useful. What You Will Learn Familiarize yourself with Windows Server 2016 ideology, the core of most datacenters running today New functions and benefits provided only by the new Windows Server 2016 Get comfortable working with Nanoserver Secure your network with new technologies in Server 2016 Harden your Windows Servers to help keep those bad guys out! Using new built-in integration for Docker

with this latest release of Windows Server 2016 Virtualize your datacenter with Hyper-V In Detail Windows Server 2016 is the server operating system developed by Microsoft as part of the Windows NT family of operating systems, developed concurrently with Windows 10. With Windows Server 2016, Microsoft has gotten us thinking outside of the box for what it means to be a system administration, and comes with some interesting new capabilities. These are exciting times to be or to become a server administrator! This book covers all aspects of administration level tasks and activities required to gain expertise in Microsoft Windows Server 2016. You will begin by getting familiar and comfortable navigating around in the interface. Next, you will learn to install and manage Windows Server 2016 and discover some tips for adapting to the new server management ideology that is all about centralized monitoring and configuration. You will deep dive into core Microsoft infrastructure technologies that the

majority of companies are going to run on Server 2016. Core technologies such as Active Directory, DNS, DHCP, Certificate Services, File Services, and more. We will talk about networking in this new operating system, giving you a networking toolset that is useful for everyday troubleshooting and maintenance. Also discussed is the idea of Software Defined Networking. You will later walk through different aspects of certificate administration in Windows Server 2016. Three important and crucial areas to cover in the Remote Access role -- DirectAccess, VPN, and the Web Application Proxy -- are also covered. You will then move into security functions and benefits that are available in Windows Server 2016. Also covered is the brand new and all-important Nano Server! We will incorporate PowerShell as a central platform for performing many of the functions that are discussed in this book, including a chapter dedicated to the new PowerShell 5.0. Additionally, you will learn about the new built-

in integration for Docker with this latest release of Windows Server 2016. The book ends with a discussion and information on virtualizing your datacenter with Hyper-V. By the end of this book, you will have all the ammunition required to start planning for and implementing Windows Server 2016. Style and approach This book offers a practical and wide coverage of all features of brand new Microsoft Server 2016 along with tips on daily administration tasks. [Microsoft System Center 2016 Orchestrator Cookbook - Second Edition](#) - Michael Seidl 2017-07-25

Over 30 recipes to automate your mission-critical tasks using the new and powerful Microsoft System Center 2016 Orchestrator About This Book* Create powerful runbooks for the entire System Center 2016 product line* Explore System Center 2016 Orchestrator to manage and automate your datacenter* A recipe-based guide to using SCO efficiently Who This Book Is For If you are a

system administrator and want to simplify the process of automating system administration tasks using System Center Orchestrator 2016 then this book is for you. A basic knowledge of SCO is expected

What You Will Learn*

- Create Runbooks for IT Service Management processes*
- Design and create Runbooks for System Center Configuration Manager and Virtual Machine Manager*
- Set up System Center Orchestrator, making it highly available*
- Create branching, looping, and child Runbooks to completely master System Center 2016 Orchestrator*
- Implement a security model for your System Center Orchestrator deployment and to execute Runbooks*
- Manage and automate your Datacenter with powerful Runbooks*

Automate your System Center environment

In Detail

With Microsoft System Center 2016 Orchestrator Cookbook, you will start by learning how to efficiently install and secure System Center Orchestrator. You will then learn how you can create configuration files for SCO

2016. After initial installation and configuration, you will soon be planning and creating functional and fault-tolerant System Center runbooks to automate daily tasks and routine operations. Next you will delve into runbooks; you will learn how to create powerful and advanced runbooks such as Building your Runbook without a Dead End. You will also learn to create simple and advanced runbooks for your daily tasks. Towards the end of the book, you will learn to use SCO for other interesting tasks and also learn to maintain and perform SCO health checks. By the end of the book, you will be able to automate your administrative tasks successfully with SCO.

Style and approach

This book is written in a practical, cookbook style with numerous chapters and recipes focusing on creating runbooks to automate mission-critical and everyday administration tasks.

PowerShell for Office 365 - Martin Machado
2017-07-26

Learn the art of leveraging PowerShell to

automate Office 365 repetitive tasks About This Book Master the fundamentals of PowerShell to automate Office 365 tasks. Easily administer scenarios such as user management, reporting, cloud services, and many more. A fast-paced guide that leverages PowerShell commands to increase your productivity. Who This Book Is For The book is aimed at sys admins who are administering office 365 tasks and looking forward to automate the manual tasks. They have no knowledge about PowerShell however basic understanding of PowerShell would be advantageous. What You Will Learn Understand the benefits of scripting and automation and get started using Powershell with Office 365 Explore various PowerShell packages and permissions required to manage Office 365 through PowerShell Create, manage, and remove Office 365 accounts and licenses using PowerShell and the Azure AD Learn about using powershell on other platforms and how to use Office 365 APIs through remoting Work with Exchange Online

and SharePoint Online using PowerShell Automate your tasks and build easy-to-read reports using PowerShell In Detail While most common administrative tasks are available via the Office 365 admin center, many IT professionals are unaware of the real power that is available to them below the surface. This book aims to educate readers on how learning PowerShell for Office 365 can simplify repetitive and complex administrative tasks, and enable greater control than is available on the surface. The book starts by teaching readers how to access Office 365 through PowerShell and then explains the PowerShell fundamentals required for automating Office 365 tasks. You will then walk through common administrative cmdlets to manage accounts, licensing, and other scenarios such as automating the importing of multiple users, assigning licenses in Office 365, distribution groups, passwords, and so on. Using practical examples, you will learn to enhance your current functionality by working with

Exchange Online, and SharePoint Online using PowerShell. Finally, the book will help you effectively manage complex and repetitive tasks (such as license and account management) and build productive reports. By the end of the book, you will have automated major repetitive tasks in Office 365 using PowerShell. Style and approach This step by step guide focuses on teaching the fundamentals of working with PowerShell for Office 365. It covers practical usage examples such as managing user accounts, licensing, and administering common Office 365 services. You will be able to leverage the processes laid out in the book so that you can move forward and explore other less common administrative tasks or functions.

Windows PowerShell Step by Step - Ed Wilson
2015-10-13

Your hands-on guide to Windows PowerShell scripting fundamentals Expand your expertise--and teach yourself the fundamentals of Windows PowerShell scripting, including features

available in Windows PowerShell 5. If you are an IT professional, power user, or consultant, you'll get the guidance, exercises, and code you need to master core techniques for automating Windows setup, deployment, and management. Discover how to: Run cmdlets and command-line utilities Administer Windows-based servers and desktops with built-in cmdlets Use providers to access external information Write and run scripts from the Windows ISE Create functions that are easy to maintain Build standardized environments with profiles Automate Windows systems with WMI, CIM cmdlets, and remoting Automate Active Directory Domain Services (AD DS) Debug scripts and handle errors Run commands that survive interruptions Use Desired State Configuration (DSC) to manage software services and their environments Get powerful new modules from PowerShell Gallery About You This book is for: IT professionals and power users who want to get productive with Windows PowerShell, including new features in

Windows PowerShell 5 Windows system administrators who want to be more efficient and productive Anyone pursuing Windows PowerShell certifications No experience with Windows PowerShell or other scripting technologies necessary

PowerShell 7 for IT Professionals - Thomas Lee
2020-12-22

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.

Learn Windows PowerShell 3 in a Month of

Lunches - Don Jones 2012-11-22

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

Windows Server 2019 & PowerShell All-in-One For Dummies - Sara Perrott 2019-04-11

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

Mastering PowerShell Scripting - Chris Dent 2021-06-29

This complete guide takes you on a tour of PowerShell from the basics to its advanced functionality, helping you automate your tedious and time-consuming system admin tasks Key Features Automate complex tasks, manipulate data, and secure your environment Work with dual code for PowerShell 7 and Windows PowerShell to maintain compatibility with older versions See PowerShell in action, from learning the fundamentals to creating classes, scripts, and modules Book Description PowerShell scripts offer a convenient way to automate various tasks, but working with them can be daunting.

Mastering PowerShell Scripting takes away the fear and helps you navigate through PowerShell's capabilities. This extensively revised edition includes new chapters on debugging and troubleshooting and creating GUIs (online chapter). Learn the new features of PowerShell 7.1 by working with parameters, objects, and .NET classes from within PowerShell 7.1. This comprehensive guide starts with the basics before moving on to advanced topics, including asynchronous processing, desired state configuration, using more complex scripts and filters, debugging issues, and error-handling techniques. Explore how to efficiently manage substantial amounts of data and interact with other services using PowerShell 7.1. This book will help you to make the most of PowerShell's automation features, using different methods to parse data, manipulate regular expressions, and work with Windows Management Instrumentation (WMI). What you will learn Optimize code with functions, switches,

and looping structures Test and debug your scripts as well as raising and catching errors Work with objects and operators to test and manipulate data Parse and manipulate different data types Use jobs, 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.

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.

Deploying Windows 10 - Andre Della Monica
2016-02-15

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.

Active Directory Administration Cookbook - Sander Berkouwer
2019-05-03

Learn the intricacies of managing Azure AD, Azure AD Connect as well as Active Directory for administration on cloud and Windows Server 2019 Key FeaturesExpert solutions for the federation, certificates, security, and monitoring with Active DirectoryExplore Azure AD and AD Connect for effective administration on cloudAutomate security tasks using Active Directory and PowerShellBook Description

Active Directory is an administration system for Windows administrators to automate network, security and access management tasks in the Windows infrastructure. This book starts off with a detailed focus on forests, domains, trusts, schemas and partitions. Next, you learn how to manage domain controllers, organizational units and the default containers. Going forward, you deep dive into managing Active Directory sites as well as identifying and solving replication problems. The next set of chapters covers the different components of Active Directory and discusses the management of users, groups and computers. You also go through recipes that help you manage your Active Directory domains, manage user and groups objects and computer accounts, expiring group memberships and group Managed Service Accounts with PowerShell. You learn how to work with Group Policy and how to get the most out of it. The last set of chapters covers federation, security and monitoring. You will also learn about Azure

Active Directory and how to integrate on-premises Active Directory with Azure AD. You learn how Azure AD Connect synchronization works, which will help you manage Azure AD. By the end of the book, you have learned in detail about Active Directory and Azure AD, too. What you will learn

Manage new Active Directory features, such as the Recycle Bin, group Managed Service Accounts, and fine-grained password policies

Work with Active Directory from the command line and use Windows PowerShell to automate tasks

Create and remove forests, domains, and trusts

Create groups, modify group scope and type, and manage memberships

Delegate control, view and modify permissions

Optimize Active Directory and Azure AD in terms of security

Who this book is for

This book will cater to administrators of existing Active Directory Domain Services environments and/or Azure AD tenants, looking for guidance to optimize their day-to-day effectiveness. Basic networking and Windows Server Operating

System knowledge would come in handy.
Mastering Microsoft Exchange Server 2016 - Clifton Leonard 2016-09-23

A bestselling Exchange Server guide, updated for the 2016 release

Mastering Microsoft Exchange Server 2016 is the gold-standard reference for system administrators and first-time users alike. Fully updated to align with the latest release, this expert-led guide provides comprehensive coverage and easy-to-follow tutorials for all aspects of Exchange Server installation, configuration, and management. Whether you're migrating from an earlier version or installing Exchange Server for the first time, this book gives you quick access to the answers you need. Step-by-step instructions walk you through planning and design, installation, administration and management, maintenance, and more, so you can get up to speed quickly and get back to work. With a focus on the hands-on details, the Microsoft Certified Masters author team provides practical insight

and invaluable guidance on every aspect of Exchange Server 2016, from mastering the basics to leveraging new features. Microsoft Exchange allows access to e-mail, voicemail, and calendars at any time, from almost any device. The 2016 release is designed specifically to appeal to enterprises; if you've been tasked with the implementation, this guide has the information you need. Get up to speed with the latest changes and features Understand server configurations, requirements, installation, and migration Manage mailboxes, groups, connectivity, and the client access server Troubleshoot common issues efficiently and effectively Exchange Server 2016 shifts even more control to the user, freeing administrators to perform more critical tasks. Beefed-up architecture and more centralized functions have eased configuration and upgrades, and a robust cloud implementation is expected to draw enterprises sooner rather than later. Systems administrators need to become familiar with the

latest changes, and Mastering Microsoft Exchange Server 2016 is the ultimate reference and tutorial.

Windows 2000 Active Directory - Edgar Brovick 2000

Annotation Windows 2000 is one of most anticipated software releases in history and is a realization of a vision for desktop computing that Microsoft has been articulating for the past six years. The keystone and most eagerly anticipated new feature in the new administrative power inherent in the Windows 2000 Active Directory (AD). Windows 2000 Active Directory will provide the ideal foundation for achieving synergy between information about users, network infrastructure elements, and applications. Active Directory will provide the means to manage the entire network infrastructure from a single application. Active Directory will be a huge stumbling block for most administrators who need to get Windows 2000 up and running. Windows 2000 Active

Directory will offer hands-on insight into the workings of the new and complex world of Active Directory. Through the use of case studies, troubleshooting tips, check lists, mitigation recommendations, and technological explanations, the reader will receive the expert advice of experienced authors and beta testers.

Mastering Active Directory - Dishan Francis
2017-06-30

Become a master at managing enterprise identity infrastructure by leveraging Active Directory About This Book Manage your Active Directory services for Windows Server 2016 effectively Automate administrative tasks in Active Directory using PowerShell Manage your organization's network with ease Who This Book Is For If you are an Active Directory administrator, system administrator, or network professional who has basic knowledge of Active Directory and are looking to gain expertise in this topic, this is the book for you. What You Will Learn Explore the new features in Active

Directory Domain Service 2016 Automate AD tasks with PowerShell Get to know the advanced functionalities of the schema Learn about Flexible Single Master Operation (FSMO) roles and their placement Install and migrate Active directory from older versions to Active Directory 2016 Manage Active Directory objects using different tools and techniques Manage users, groups, and devices effectively Design your OU structure in the best way Audit and monitor Active Directory Integrate Azure with Active Directory for a hybrid setup In Detail Active Directory is a centralized and standardized system that automates networked management of user data, security, and distributed resources and enables interoperation with other directories. If you are aware of Active Directory basics and want to gain expertise in it, this book is perfect for you. We will quickly go through the architecture and fundamentals of Active Directory and then dive deep into the core components, such as forests, domains, sites,

trust relationships, OU, objects, attributes, DNS, and replication. We will then move on to AD schemas, global catalogs, LDAP, RODC, RMS, certificate authorities, group policies, and security best practices, which will help you gain a better understanding of objects and components and how they can be used effectively. We will also cover AD Domain Services and Federation Services for Windows Server 2016 and all their new features. Last but not least, you will learn how to manage your identity infrastructure for a hybrid-cloud setup. All this will help you design, plan, deploy, manage operations on, and troubleshoot your enterprise identity infrastructure in a secure, effective manner. Furthermore, I will guide you through automating administrative tasks using PowerShell cmdlets. Toward the end of the book, we will cover best practices and troubleshooting techniques that can be used to improve security and performance in an identity infrastructure. Style and approach This step-by-step guide will

help you master the core functionalities of Active Directory services using Microsoft Server 2016 and PowerShell, with real-world best practices at the end.

Microsoft Exchange Server 2016 PowerShell Cookbook - Jonas Andersson 2017-07-14

Make the most of PowerShell's features to manage all aspects of your Exchange Server 2016 environment. About This Book Learn to integrate PowerShell with Exchange Server 2016 Write scripts and functions to run tasks automatically, and generate complex reports with PowerShell Use these effective recipes to learn all popular and important Powershell scripts to manage tasks and avoid errors Who This Book Is For This book is for messaging professionals who want to build real-world scripts with Windows PowerShell and the Exchange Management Shell. You'll also find it indispensable if you're a network or systems administrator responsible for managing and maintaining Exchange Server 2016. What You

Will Learn Master the new features and capabilities of PowerShell and Exchange Server 2016 Get to grips with the core PowerShell concepts Use simple PowerShell scripts and commands to get powerful results Generate detailed reports, send the output of commands by email , and schedule scripts to run automatically Import, export, and move mailboxes, and delete messages from mailboxes using the command line Configure transport server settings such as mail relay, tracking logs, transport rules, delivery reports, and more Manage mailbox and public folders Monitor the health of an Exchange environment through built-in cmdlets and other methods Integrate Exchange with Office Online Server, Skype for Business Server, and Exchange Online (Office 365) In Detail We start with a set of recipes on core PowerShell concepts. This will provide you with a foundation for the examples in the book. Next, you'll see how to implement some of the common exchange management shell tasks, so

you can effectively write scripts with this latest release. You will then learn to manage Exchange recipients, automate recipient-related tasks in your environment, manage mailboxes, and understand distribution group management within the Exchange Management Shell. Moving on, we'll work through several scenarios where PowerShell scripting can be used to increase your efficiency when managing databases, which are the most critical resources in your Exchange environment. Towards the end, you'll discover how to achieve Exchange High Availability and how to secure your environment, monitor the health of Exchange, and integrate Exchange with Office Online Server, Skype for Business Server, and Exchange Online (Office 365). By the end of the book, you will be able to perform administrative tasks efficiently. Style and approach This practical guide is packed with handy recipes to help you perform common administration tasks, as well as complex tasks in Exchange Server, without any hassle.

Microsoft System Center 2016 Orchestrator Cookbook - Michael Seidl 2017-07-26

Over 30 recipes to automate your mission-critical tasks using the new and powerful Microsoft System Center 2016 Orchestrator About This Book Create powerful runbooks for the entire System Center 2016 product line Explore System Center 2016 Orchestrator to manage and automate your datacenter A recipe-based guide to using SCO efficiently Who This Book Is For If you are a system administrator and want to simplify the process of automating system administration tasks using System Center Orchestrator 2016 then this book is for you. A basic knowledge of SCO is expected What You Will Learn Create Runbooks for IT Service Management processes Design and create Runbooks for System Center Configuration Manager and Virtual Machine Manager Set up System Center Orchestrator, making it highly available Create branching, looping, and child Runbooks to completely master System Center

2016 Orchestrator Implement a security model for your System Center Orchestrator deployment and to execute Runbooks Manage and automate your Datacenter with powerful Runbooks Automate your System Center environment In Detail With Microsoft System Center 2016 Orchestrator Cookbook, you will start by learning how to efficiently install and secure System Center Orchestrator. You will then learn how you can create configuration files for SCO 2016. After initial installation and configuration, you will soon be planning and creating functional and fault-tolerant System Center runbooks to automate daily tasks and routine operations. Next you will delve into runbooks; you will learn how to create powerful and advanced runbooks such as Building your Runbook without a Dead End. You will also learn to create simple and advanced runbooks for your daily tasks. Towards the end of the book, you will learn to use SCO for other interesting tasks and also learn to maintain and perform SCO

health checks. By the end of the book, you will be able to automate your administrative tasks successfully with SCO. Style and approach This book is written in a practical, cookbook style with numerous chapters and recipes focusing on creating runbooks to automate mission-critical and everyday administration tasks.

Windows Server 2019 Administration

Fundamentals - Bekim Dauti 2019-10-11

Deploy, set up, and deliver network services with Windows Server 2019, and prepare for the MTA 98-365 exam Key FeaturesGet started with server installation, performance monitoring, and server maintenanceDevelop the skills necessary to manage an enterprise environmentImplement networking and security best practices in your Windows Server environmentBook Description Windows Server 2019 is the server operating system introduced by Microsoft as part of the Windows NT family of operating systems, developed concurrently with Windows 10. This book will not only get you started with Windows

Server 2019, but will also help you prepare for the MTA 98-365 exam. With step-by-step instructions and easy-to-understand graphics, you will become well-versed with the roles, features, and functions of Windows Server 2019. Starting with the installation process, upgrades, and basic configuration, you will move on to explore roles and features such as Active Directory, Hyper-V, remote access, storage, and printers. The book then takes you through maintenance and troubleshooting tasks to guide you in efficiently managing Windows Server 2019. In addition, it covers Windows Server 2019 best practices using real-world examples. Complete with questionnaires, and detailed answers at the end of the book, you can test your understanding of the concepts covered in each chapter. By the end of this book, you will be equipped with the knowledge you need to troubleshoot, update, and maintain servers so as to ensure business continuity. What you will learnGrasp the fundamentals of Windows Server

2019 Understand how to deploy Windows Server 2019
Discover Windows Server post-installation tasks
Add roles to your Windows Server environment
Apply Windows Server 2019 GPOs to your network
Delve into virtualization and Hyper-V concepts
Explore ways to tune, maintain, update, and troubleshoot Windows Server 2019
Study relevant concepts in preparation for the MTA 98-365 exam
Who this book is for
If you are a system administrator or an IT professional who wants to deploy and configure Windows Server 2019, this book is for you. You can also use this as a reference guide for the MTA: Windows Server Administration Fundamentals: 98-365 exam.

Introducing Windows Server 2016 Technical Preview - John McCabe 2016-05-11

Get a head start evaluating Windows Server 2016—guided by the experts. Based on Technical Preview 4, John McCabe and the Windows Server team introduce the new features and capabilities, with practical insights on how

Windows Server 2016 can meet the needs of your business. Get the early, high-level overview you need to begin preparing your deployment now!

Windows Server 2019 Automation with PowerShell Cookbook - Thomas Lee

2019-02-28

Automate Windows server tasks with the powerful features of the PowerShell Language Key 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 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 knowledge of PowerShell is expected.