

# Windows Powershell Desired State Configuration Revealed

Enhance your knowledge of Windows PowerShell and get to grips with its latest features

Learn the essentials of PowerShell Desired State Configuration. DSC is a new IT management platform built on Windows PowerShell that enables administrators to define the desired state of their systems through declarative configuration documents, and manage configuration data on an ongoing basis. Current IT pros will need to understand DSC as they move into managing Microsoft's next wave of server and cloud products that will leverage this important technology. In this course, Matt Hester shows how to write configuration documents, work with DSC resources, and apply configurations to systems via both push and pull modes. Plus, he shows how to troubleshoot DSC and use DSC in non-Windows environments like Linux.

This Microsoft Official Academic Course (MOAC) IT Professional curriculum prepares certification students for success every step of the way. This 70-414 Implementing an Advanced Server Infrastructure exam course is the second of a

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series of two exams Microsoft Certified Solutions Associates (MCSE) candidates are required to pass to gain the MCSE: Windows Server 2012 and Windows Server 2012 R2 certification. These MCSE exams test the skills and knowledge necessary to design, implement, and maintain a Windows Server 2012 infrastructure in an enterprise scaled, highly virtualized environment. Passing these exams confirms students' ability to plan, configure, and implement the Windows Server 2012 services, such as server deployment, server virtualization, and network access and infrastructure. This complete ready-to-teach MOAC program is mapped to all of the exam objectives.

Prepare for Microsoft Exam 70-534--and help demonstrate your real-world mastery of Microsoft Azure solution design and architecture. Designed for experienced IT pros ready to advance their status, Exam Ref focuses on the critical-thinking and decision-making acumen needed for success at the Microsoft Specialist level. Focus on the expertise measured by these objectives: Describe Microsoft Azure infrastructure and networking Help secure resources Design an application storage and data access strategy Design an advanced application Design websites Design a management, monitoring, and business continuity strategy This Microsoft Exam Ref: Organizes its coverage by exam objectives Features strategic, what-if scenarios to challenge you Assumes you have

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experience designing Microsoft Azure cloud or hybrid solutions and supporting application life cycle management

Windows Server  
Container Docker Windows Server ASP .NET  
VM Docker Windows  
Server Container Docker CLI Visual Studio 2015 .NET  
Core C# ASP.NET Core Web PowerShell Docker  
CLI Windows Server Microsoft Azure  
Visual Studio Team  
Services Docker Hub Git CI CD Docker  
Swarm Azure Container Service PowerShell DSC Nano  
Server # GOTOP Information Inc.

NOTE: This title is also available as a free eBook on the Microsoft Download Center. It is offered for sale in print format as a convenience. Get a head start evaluating Windows Server 2012 R2 - with technical insights from a Microsoft MVP and members of the Windows Server product team. Based on final Windows Server 2012 R2 release-to-manufacturing (RTM) software, this guide introduces new features and capabilities, with scenario-based advice on how the

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platform can meet the needs of your business. Get the high-level overview you need to begin preparing your deployment now. Coverage includes: Server virtualization and cloud solutions Availability and scalability Provisioning and storage management Security features, access, and data protection Infrastructure options Server management and automation  
Hyper-V OS Server Core Nano Server OS Windows Server 2016 Hyper-V Hyper-V Hyper-V # GOTOP Information Inc.

- This is the latest practice test to pass the 70-740 Microsoft Installation, Storage, and Compute with Windows Server 2016 Exam. - It contains 280 Questions and Answers. - All the questions are 100% valid and stable. - You can reply on this practice test to pass the exam with a good mark and in the first attempt. Leverage the expertise of Windows PowerShell and automate Microsoft products and technologies, on-premises and in-cloud About This Book \*Meet complex administration requirements with efficiency using Windows PowerShell \*Build advanced task automation skills via PowerShell scripting for Microsoft

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technologies such as Nano Server and System Center, Office 365, and so on\* A comprehensive PowerShell guide with a set of scenarios, real-world examples, and scripts to easily get you started with Windows PowerShell and its capabilities

**Who This Book Is For** This handbook is for system administrators who want to master Windows PowerShell as a scripting language, automate repeated daily tasks, and perform complex administration in timely manner with less effort. In order to get the maximum benefit from this book, you need to have some basic scripting knowledge and a good administration experience.

**What You Will Learn**

- \* Discover and understand the concepts and basics of Windows PowerShell
- \* Explore Windows PowerShell's extensibility and flexibility
- \* Discover the new features and enhancements of Windows PowerShell
- \* Get to know the PowerShell syntax and grammar such as pipeline, looping, and working with objects
- \* Extend PowerShell's capabilities with the .NET framework, XML, WMI, and COM+
- \* Configure and deploy Windows Server Core features, services, and components
- \* Manage and configure the Microsoft virtualization platform, Hyper-V
- \* Manage and configure Cloud technologies such as Office 365 and Microsoft Azure

**In Detail** Technology's growing rhythm is running faster than before, and the business needs are getting more complex every day. Thus, it is the time to gain a new talent to meet this challenge. With PowerShell in your toolbox, you can

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easily perform many tasks in less time, with less effort, and with lower costs. This book comes with a set of real-world scenarios and detailed scripts that will help you getting started with PowerShell. You will learn what is new in PowerShell 5.0 such as Desired State Configuration (DSC) and Classes, automation with Office 365, writing the syntax, and building your scripts and developing extensions and modules. You will also gain deep insights into automating various tasks and integrating PowerShell with different technologies, products, and tools, such as Windows Server, Active Directory, Nano Server, Hyper-V, System Center, Office 365, Microsoft Azure, and more.

Master your virtual environment with the ultimate vSphere guide Mastering VMware vSphere 6 is the fully updated edition of the bestselling guide to VMware's virtualization solution. With comprehensive coverage of this industry-leading toolset, this book acts as an informative guide and valuable reference. Step-by-step instruction walks you through installation, configuration, operation, security processes, and much more as you conquer the management and automation of your virtual environment. Written by certified VMware vExperts, this indispensable guide provides hands-on instruction and detailed conceptual explanations, anchored by practical applications and real-world examples. This book is the ultimate guide to vSphere, helping administrators master their virtual

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environment. Learn to: Install, configure, and manage the vCenter Server components Leverage the Support Tools to provide maintenance and updates Create and configure virtual networks, storage devices, and virtual machines Implement the latest features to ensure compatibility and flexibility Manage resource allocation and utilization to meet application needs Monitor infrastructure performance and availability Automate and orchestrate routine administrative tasks Mastering VMware vSphere 6 is what you need to stay up-to-date on VMware's industry-leading software for the virtualized datacenter. Summary PowerShell in Depth, Second Edition is the go-to reference for administrators working with Windows PowerShell. Every major technique, technology, and tactic is carefully explained and demonstrated, providing a hands-on guide to almost everything an admin would do in the shell. Written by three experienced authors and PowerShell MVPs, this is the PowerShell book you'll keep next to your monitor—not on your bookshelf! Purchase of the print book includes a free eBook in PDF, Kindle, and ePub formats from Manning Publications. About the Book A Windows admin using PowerShell every day may not have the time to search the net every time he or she hits a snag. Wouldn't it be great to have a team of seasoned PowerShell experts ready to answer even the toughest questions? That's what you get with this book. PowerShell in Depth,

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Second Edition is the go-to reference for administrators working with Windows PowerShell. Every major technique, technology, and tactic is carefully explained and demonstrated, providing a hands-on guide to almost everything an admin would do in the shell. Written by PowerShell MVPs Don Jones, Jeffrey Hicks, and Richard Siddaway, each valuable technique was developed and thoroughly tested, so you'll be able to consistently write production-quality, maintainable scripts while saving hours of time and effort. This book assumes you know the basics of PowerShell. What's Inside Automating tasks Packaging and deploying scripts Introduction to Desired State Configuration PowerShell security Covers PowerShell version 3 and later About the Authors Don Jones, Jeffery Hicks, and Richard Siddaway are Microsoft MVPs, trainers, and administrators. Collectively, they've authored nearly three dozen books on PowerShell and Windows administration. Table of Contents PART 1 POWERSHELL FUNDAMENTALS Introduction PowerShell hosts Using the PowerShell help system The basics of PowerShell syntax Working with PSSnapins and modules Operators Working with objects The PowerShell pipeline Formatting PART 2 POWERSHELL MANAGEMENT PowerShell Remoting Background jobs and scheduling Working with credentials Regular expressions Working with HTML and XML data PSDrives and PSProviders Variables, arrays, hash tables, and script blocks

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PowerShell security Advanced PowerShell syntax PART 3 POWERSHELL SCRIPTING AND AUTOMATION PowerShell's scripting language Basic scripts and functions Creating objects for output Scope PowerShell workflows Advanced syntax for scripts and functions Script modules and manifest modules Custom formatting views Custom type extensions Data language and internationalization Writing help Error handling techniques Debugging tools and techniques Functions that work like cmdlets Tips and tricks for creating reports PART 4 ADVANCED POWERSHELL Working with the Component Object Model (COM) Working with .NET Framework objects Accessing databases Proxy functions Building a GUI WMI and CIM Working with the web Desired State Configuration Remain highly competitive in the server and VM market by gaining the practical skills needed to operate Nano Server About This Book The days of the local server are numbered, and this book will make you an ace by giving you the skills needed to administer Nano Server and survive in the brave new server world Learn to quickly automate multiple VMs and support Hyper-V clusters, all through small footprints from a single host Apply up-to-date, real-world examples presented in this book and improve the scalability and efficiency of large-scale VM deployments Who This Book Is For This book opens up new potential for both developers and IT pros alike. The book is primarily for Server administrators

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and IT Professionals who would like to deploy and administer Nano Server within their organizations, and for developers who are trying to make maximal use of Server Containers and Hyper-V Containers with Nano Servers. What You Will Learn Understand Nano Server Deploy Nano Server Deploy Hyper-V Clusters on Nano Server Deploy Nano Server with SCVMM Manage Nano Server using PowerShell and Remote Server Management Tools Manage Nano Server with third-party tools Run Server Containers and Hyper-V Containers on Nano Server Troubleshoot Nano Server Validate developed applications that run on Nano Server In Detail Nano Server allows developers and operations teams to work closely together and use containers that package applications so that the entire platform works as one. The aim of Nano Server is to help applications run the way they are intended to. It can be used to run and deploy infrastructures (acting as a compute host, storage host, container, or VM guest operating system) without consuming significant resources. Although Nano Server isn't intended to replace Server 2016 or 2012 R2, it will be an attractive choice for developers and IT teams. Want to improve your ability to deploy a new VM and install and deploy container apps within minutes? You have come to the right place! The objective of this book is to get you started with Nano Server successfully. The journey is quite exciting, since we are introducing you to a cutting-edge technology that will

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revolutionize today's datacenters. We'll cover everything from the basic to advanced topics. You'll discover a lot of added value from using Nano Server, such as hundreds of VM types on a single host through a small footprint, which could be a big plus for you and your company. After reading this book, you will have the necessary skills to start your journey effectively using Nano Server. Style and approach Gauge all the information needed to get up-and-running with the latest Nano Server built by Microsoft using this easy to follow step-by-step guide.

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

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domain controllers Active Directory administration Network administration  
Advanced networking capabilities  
Efficiently administer and maintain your development environment with Windows PowerShell About This Book Explore scripting and automation techniques with Windows PowerShell Gain concrete knowledge of Windows PowerShell scripting to perform professional level scripting Discover the benefits of the Configuration Management Platform with this step-by-step guide that includes real-world scripting examples Who This Book Is For If you are an IT professional or developer who has worked on the .Net platform and you want to learn automation using Windows PowerShell, then this book is for you. This self-start guide takes you from the basics and gradually moves to an intermediate level to show you how to perform professional scripting. What You Will Learn Understand the concepts of building PowerShell scripts and the basics of programming Manage the LYNC, Exchange, and SharePoint platforms Create a Pull server using a SMB file share and HTTP and HTTPS Use .NET classes in Windows PowerShell and C# to manage Exchange Online Use PowerShell in C# to manage Exchange Online and work with .NET classes in PowerShell Automate LYNC clients, consuming Client Server Object Models to administrate SharePoint Online In Detail Windows PowerShell 5.0 for .NET Developers is your self-start guide to

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performing automation using Windows PowerShell. This book will help you to understand the PowerShell syntax and grammar and will also teach you techniques to remove the rough edges of manual deployments. Packed with PowerShell scripts and sample C# codes to automate tasks, it also includes real-world scenarios such as administrating office servers to help you save time and perform deployments swiftly and efficiently. The book begins with the Windows PowerShell basics, explores the significant features of Windows Management Framework 5.0, covers the basic concepts of Desired State Configuration and the importance of idempotent deployments. By the end of the book, you will have a good understanding of Windows PowerShell's features and will be able to automate your tasks and manage configuration effectively. Style and approach This is an easy-to-follow step-by-step guide with text-enabled screenshots. Each topic is explained with codes and examples. It also includes multiple approaches for a number of tasks to let you choose the best one for you depending on your scenario.

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

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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

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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.

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

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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

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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.

This book is the authoritative source on implementing Continuous Delivery practices using Microsoft's Visual Studio and TFS 2015. Microsoft MVP authors Mathias Olausson and Jakob Ehn translate the theory behind this methodology and show step by step how to implement Continuous Delivery in a real world environment. Building good software is challenging. Building high-quality software on a tight schedule can be close to impossible. Continuous Delivery is an agile and iterative technique that enables developers to deliver solid, working software in every iteration. Continuous delivery practices help IT organizations

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reduce risk and potentially become as nimble, agile, and innovative as startups. In this book, you'll learn: What Continuous Delivery is and how to use it to create better software more efficiently using Visual Studio 2015 How to use Team Foundation Server 2015 and Visual Studio Online to plan, design, and implement powerful and reliable deployment pipelines Detailed step-by-step instructions for implementing Continuous Delivery on a real project Learn about using PowerShell for Desired State Configuration (DSC) and other advanced automation for Windows Server.

This book is written for Windows professionals who are familiar with PowerShell and want to learn to build, operate, and administer their Windows workloads in the Microsoft cloud. Pro PowerShell for Microsoft Azure is packed with practical examples and scripts, with easy-to-follow explanations for a wide range of day-to-day needs and essential administration tasks. Author Sherif Talaat begins by explaining the fundamental concepts behind the Microsoft Azure platform and how to get started configuring it through PowerShell. Readers will find out how to deploy, configure and manage the various components of the Azure platform, from storage and virtual networks to Azure Web Sites, HDInsight clusters and the Azure SQL Database. Workload automation, scheduling and resource management are covered in depth to help build efficiency in everyday tasks, and

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administrators will gain full control over Azure identity and access rights using Azure Active Directory and Rights Management Services. Put your PowerShell skills to good use and ensure that your applications and data are available anywhere at any time, with Pro PowerShell for Microsoft Azure. What You'll Learn Create and manage virtual networks and VPNs using PowerShell. Configure and maintain Azure Storage accounts, blobs, and containers. Provision and manage a redundant Windows or Linux server. Deploy and configure your sites in the cloud using Microsoft Azure Web Sites. Provision Apache Hadoop clusters in the cloud using Azure HDInsight. Deploy, configure and manage a Microsoft Azure SQL Database. Protect and secure identities and resources with Azure Active Directory and Azure Rights Management Services. Who This Book Is For This is book is for the intermediate to advanced Windows professional who is ready to make the leap to the cloud.

Windows Server 2016????????????????????GUI????????Server Core?Nano Server??  
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? ??????????Windows Server 2016????????????????????Active  
Directory????????????????Nano Server?Hyper-V  
Server?Cluster?SDS????????????????????????????????IT????????????????Windows

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Server 2016????????????????????Linux????????Active  
Directory????????????????IT?????????????????????Nano  
Server?? ?Hyper-V????? ?Cluster????? ?SDS????? ?IIS??????????Linux??Active  
Directory ?Windows 10????? #????? GOTOP Information Inc.

In just 24 lessons of one hour or less, Sams Teach Yourself Windows PowerShell in 24 Hours helps you streamline all facets of Windows administration, supercharging your effectiveness as an IT professional or power user. This book's straightforward, step-by-step approach shows you how to build and run scripts, extend Windows PowerShell reach, manage computers remotely, and automate a wide variety of tasks on any modern Windows server or client. Every lesson builds on what you've already learned, giving you a rock-solid foundation for real-world success! Step-by-step instructions carefully walk you through the most common PowerShell scripting tasks. Practical, hands-on examples show you how to apply what you learn. Quizzes and exercises help you test your knowledge and stretch your skills. Notes, tips, and cautions point out shortcuts, pitfalls, and solutions. Learn how to... Install, configure, and explore Windows PowerShell (including updates for PowerShell 5) Leverage .NET's remarkable power and scope with easy-to-use cmdlets Build new scripts with the console, ISE visual tools, and other popular hosts Apply best practices

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for writing more reliable, flexible, team-friendly scripts Work effectively with the pipeline, objects, and data Extend Windows PowerShell reach via providers, drives, and output Run external tools like ping, ipconfig, and tracert from within PowerShell Remotely manage computers with basic and advanced remoting (WinRM), WMI, and Regex Configure Windows devices across the web with PSWA Sort, filter, measure, format, export, and convert script output Run Windows PowerShell flexibly, using background and scheduled jobs Customize your environment with profile scripts, alternate credentials, thirdparty tools, and packages Strengthen your control over Windows systems and services with Desired State Configuration Administer key tasks on SQL Server, SharePoint, and other Windows servers Master PowerShell skills needed to earn many Microsoft certifications

NOTE: As the response to the coronavirus (COVID-19) continues to evolve rapidly around the world, Microsoft has announced that it's extending the retirement date of the current MCSA Windows Server 2016 certification until January 31, 2021. Pearson VUE has temporarily closed many of its testing centers worldwide in response to global government regulations to battle the spread of COVID-19. As an alternative to taking your exam at a testing center, online proctoring is available, which allows you to take your certification exam in

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the comfort of your own home or office. Instead of taking the required exams at a Pearson VUE testing center near you, Pearson VUE will be offering only online proctored exams for the foreseeable future. This means you will have more time to prepare for the current exams: 70-740: Installation, Storage, and Compute with Windows Server 2016 70-741: Networking with Windows Server 2016 70-742: Identity with Windows Server 2016 To help you prepare for the exams, our Study Guides are available for purchase. Over 1,000 pages of comprehensive exam prep for the entire MCSA Windows Server 2016 certification process MCSA Windows Server 2016 Complete Study Guide is your ultimate companion on the journey to earning the MCSA Windows Server 2016 certification. Covering required Exams 70-740, 70-741, and 70-742, plus preparing you to take the composite upgrade Exam 70-743 (not covered separately in this book), this Study Guide walks you through 100 percent of all exam objectives to help you achieve complete readiness. Hands-on exercises strengthen your practical skills, and real-world scenarios help you understand how these skills are used on the job. Over 500 practice questions allow you to test your understanding along the way, and the online test bank gives you access to electronic flashcards, practice exams, and over an hour of expert video demonstrations. From basic networking concepts and services to Active Directory and Hyper-V, this guide provides full

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coverage of critical MCSA concepts and skills. This new edition has been updated for the latest MCSA Windows Server 2016 exam releases, featuring coverage of all the objective domains. This value-priced guide is three books in one, giving you the most comprehensive exam prep experience for all required MCSA exams. Whether you're starting from the beginning, or upgrading from the MCSA Windows Server 2012 R2 certification, arm yourself with the ultimate tool for complete and comprehensive preparation. Study 100 percent of the objectives for all three MCSA exams, plus the upgrade exam Practice your skills using hands-on exercises and real-world scenarios Test your knowledge with over 500 challenging practice questions Access online study aids including flashcards, video demos, and more! The MCSA exams test your knowledge and skill in installation, configuration, deployment, and administration using a variety of networking tools. The scope is broad, but your complete understanding of the most up-to-date concepts and practices is critical to your success on the exam—and on the job. MCSA Windows Server 2016 Complete Study Guide covers everything you need to know, and gives you the tools to help you learn it. Did you know, 91% of hiring managers consider certification as part of their hiring requirements? IT Professionals who are new to the industry need a strong foundational understanding of the fundamentals before moving on towards more

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challenging technology certifications. This book covers everything you need to know about understanding how to manage windows servers and storage along with monitoring and troubleshooting servers as well. Written to the Windows Server Administration Fundamentals MTA Certification, it is a recommended entry point into IT certification. This book covers the basics of Windows Server Administration. Each chapter closes with a quiz to make sure you can practice exam questions and test your knowledge before moving to the next section. We start by discussing what a server is and does by providing an in-depth overview including installation of Windows Server 2016. There are sections dedicated to the following: Performing configurations and managing your Windows Server, by configuring your IP address settings and managing devices and device drivers. Managing your storage, by identifying storage technologies, understanding disk structure, and using disk management tools. Monitoring and troubleshooting servers, by managing information technology, and understanding performance, backups and performing server repair. Overview of popular Windows network services and applications, like understanding remote access, server virtualization, and introducing remote administration. IT Professionals looking to understand more about Windows Server Administration will gain the knowledge to effectively install and manage a Windows Server including basic troubleshooting.

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Thanks to some troubleshooting tools and tips it will be easier to apply the skills in real world situations and feel confident when taking the certification.

Streamline and modernize the way you manage Active Directory Use Windows PowerShell to simplify and accelerate Active Directory domain controller management, whether you're running Active Directory entirely in the cloud, on-premises, or in a hybrid environment. In this concise reference, Microsoft MVP Charlie Russel presents the commands, tested scripts, and best-practice advice you need to deploy and run Active Directory in a modern environment and to migrate smoothly to cloud or hybrid deployments wherever they offer more value. Supercharge your productivity as an Active Directory administrator Get proven scripts that leverage the power of Windows Server 2012 and Windows Management Framework 4.0 and 5.0 Deploy forests and Active Directory Domain Services (AD DS) Manage DNS and DHCP Create and manage users and groups Deploy additional domain controllers, read-only domain controllers (RODCs), and domains Implement and manage fine-grained password policies Perform fast, reliable backups and restores Quickly extend on-premises Active Directory deployments to the cloud Efficiently manage roles and sites Get started with the fundamentals of PowerShell DSC and utilize its power to automate deployment and configuration of your servers About This Book Create

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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

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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.

Desired State Configuration (DSC) is a powerful configuration management platform that makes it easier than ever to perform cross-platform configuration management of your infrastructure, whether on-premise or in the cloud. DSC provides the management platform and Application Programming Interface (API) that can be used with any programming language. Windows PowerShell Desired State Configuration Revealed will take you through this new technology from start

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to finish and demonstrates the DSC interfaces through Windows PowerShell. DSC allows you to manage target devices by simply declaring what state you want them to be in, using new declarative language extensions, rather than writing detailed instructions to get them into that state. This makes continuous delivery in Windows easier than ever before. In an environment where changes and deployments are happening all the time, DSC makes the necessary adjustments to the system so you don't have to. Windows PowerShell Desired State Configuration Revealed starts with an overview of the configuration management features in Windows, followed by a discussion of the architecture of DSC and its components. You'll then explore DSC's built-in features and resources, followed by some of the different methods provided for delivering configuration information within your ecosystem, and learn about configuration monitoring and reporting. In the latter part of the book, you'll find out how to get more power out of DSC by writing your own custom DSC resources, including a range of useful examples, and the book concludes with vital information on deploying and troubleshooting DSC in a production environment, along with some expert tips and tricks you might find useful along the way. Windows PowerShell Desired State Configuration Revealed is your one-stop guide to this new technology and how it can change your working life for the better.

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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





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in the data center Understand the central role that DSC plays in DevOps today Integrate DSC into build and release management tools Learn to think and act like a developer when automating your configuration management, creating a testable, robust process that you can use again and again Find out why and how DSC has an important role to play in public and private cloud deployments Apply DSC in the cloud with Microsoft Azure or Amazon Web Services or Google Cloud Platform Who This Book Is For IT administrators, developers and DevOps engineers working in Windows-based data center environments. With a little prior PowerShell scripting experience, this book can be used as an in-depth reference to creating, customizing, and extending DSC in Windows. IT administrators with limited scripting experience will also find this book a useful overview of what DSC offers and how to use DSC resources to automate configuration management and deployment.

Learn the basics of Microsoft Azure and see how SQL Server on Azure VMs (Infrastructure-as-a-Service) and Azure SQL Databases (Platform-as-a-Service) work. This concise book shows you how to deploy, operate, and maintain your data using any one or a combination of these offerings along with your on-premise environment. Pro SQL Server on Microsoft Azure is a quintessential book for any IT professional who is planning to host their data on Microsoft

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Azure. This book will not only equip you with the tips, tricks, and tools to manage SQL Server offerings on Azure, but will also help you in deciding between PaaS, IaaS, or hybrid. In the ever-changing world of operations, IT administrators and SQL Server DBAs often find that the biggest challenges occur once they've deployed to the cloud. This is precisely why *Pro SQL Server on Microsoft Azure* was written; it will help you master today's cloud world. What You'll Learn

- Understand the Microsoft Azure IaaS architecture
- Work with Azure Storage and Networking
- Deploy SQL Server on Azure VMs using best practices
- Apply effective security principles to SQL Azure Databases
- Measure and optimize the performance of SQL Server offerings on Azure
- Implement Business continuity and disaster recovery options with Azure SQL Databases

Who This Book Is For  
This book is for IT admins and SQL Server DBAs who are managing or would be managing SQL Server deployments on Microsoft Azure. v>

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

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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

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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

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development environment with PowerShell.

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

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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 administrator, 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.

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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.

NOTE: This title is also available as a free eBook. It is offered for sale in print format as a convenience. Get a head start evaluating Windows 8.1 - with early technical insights from award-winning journalist and Windows expert Ed Bott. Based on the Windows 8.1 Preview release, this guide introduces new features and capabilities, with scenario-based advice on how Windows 8.1 can meet the needs of your business. Get the high-level overview you need to begin preparing your deployment now. Preview new features and enhancements, including: How features compare to Windows 7 and Windows XP The Windows 8.1 user experience Deployment Security features Internet Explorer 11 Delivering Windows apps Recovery options Networking and remote access Managing mobile devices Virtualization Windows RT 8.1

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Summary Windows PowerShell in Action, Third Edition is the definitive guide to PowerShell, now revised to cover PowerShell 6. Purchase of the print book includes a free eBook in PDF,

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Kindle, and ePub formats from Manning Publications. About the Technology In 2006, Windows PowerShell reinvented the way administrators and developers interact with Windows. Today, PowerShell is required knowledge for Windows admins and devs. This powerful, dynamic language provides command-line control of the Windows OS and most Windows servers, such as Exchange and SCCM. And because it's a first-class .NET language, you can build amazing shell scripts and tools without reaching for VB or C#. About the Book Windows PowerShell in Action, Third Edition is the definitive guide to PowerShell, now revised to cover PowerShell 6. Written by language designer Bruce Payette and MVP Richard Siddaway, this rich book offers a crystal-clear introduction to the language along with its essential everyday use cases. Beyond the basics, you'll find detailed examples on deep topics like performance, module architecture, and parallel execution. What's Inside The best end-to-end coverage of PowerShell available Updated with coverage of PowerShell v6 PowerShell workflows PowerShell classes Writing modules and scripts Desired State Configuration Programming APIs and pipelines About the Reader Written for intermediate-level developers and administrators. About the Authors Bruce Payette is codesigner and principal author of the Power-Shell language. Richard Siddaway is a longtime PowerShell MVP, author, speaker, and blogger. Table of Contents Welcome to PowerShell Working with types Operators and expressions Advanced operators and variables Flow control in scripts PowerShell functions Advanced functions and scripts Using and authoring modules Module manifests and metadata Metaprogramming with scriptblocks and dynamic code PowerShell remoting PowerShell workflows PowerShell Jobs Errors and exceptions Debugging Working with providers, files, and CIM Working with .NET and events Desired State Configuration Classes in PowerShell

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The PowerShell and runspace APIs Appendix - PowerShell 6.0 for Windows, Linux, and MacOS

Fully updated for Windows Server 2012 R2! Prepare for Microsoft Exam 70-417 - and help demonstrate your real-world mastery of Windows Server 2012 R2 core infrastructure services. Exam 70-417 is an upgrade exam that is a composite of three standalone exams: 70-410, 70-411, and 70-412. Exam 70-417 validates skills related to core features and functionality of Windows Server 2012 R2, from the existing knowledge base of a Microsoft Certified Systems Administrator for Windows Server 2008. Focus on the expertise measured by these objectives:

- EXAM 70-410 Install and configure servers Configure server roles and features Configure Hyper-V Deploy and configure core network services Install and administer Active Directory
- EXAM 70-411 Deploy, manage, and maintain servers Configure network services and access Configure a network policy server infrastructure Configure and manage Active Directory Configure and manage Group Policy
- EXAM 70-412 Configure and manage high availability Configure file and storage solutions Implement business continuity and disaster recovery Configure network services Configure identity and access solutions

This Microsoft Exam Ref: Organizes its coverage by exam objectives. Features strategic, what-if scenarios to challenge you.

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

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