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In 2013, Brenton authored his first book, PowerShell 3.0 WMI Starter, Packt Publishing. In March 2015, he authored his second book Mastering Windows PowerShell Scripting, Packt Publishing. \_x000D\_ Brenton currently works at CDW as an Enterprise Architect in strategic solutions and services.

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Title: Mastering Windows PowerShell Scripting - Second Edition; Author(s): Chris Dent, Brenton J.W. Blawat; Release date: October 2017; Publisher(s): Packt Publishing; ISBN: 9781787126305

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### Mastering Windows PowerShell Scripting - Second Edition

variety of Fortune 500 clients to develop PowerShell automation scripts to build new systems and manage their environments, including health check scripts, systems discovery, and advanced regulatory security analysis. Clearly, PowerShell's incredible utility has made it invaluable to CDW, our customers, and countless organizations across the globe.

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PowerShell Integrated Scripting Environment (ISE) was introduced with PowerShell 2 in October 2009 and has been updated with every subsequent release. ISE has an immediate advantage over other editors. It is installed along with PowerShell itself and is likely to be available in some form wherever PowerShell is. ISE consists of a text editor pane and a script pane, as shown in the following screenshot:

### PowerShell editors - Mastering Windows PowerShell ...

Mastering Windows PowerShell Scripting: Automate and Manage Your Environment Using PowerShell Core 6. 0, 3rd Edition. Chris Dent

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Master the art of automating and managing your environment using PowerShellAbout 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 environmentWho This Book Is ForIf 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\* Create a template for deploying a web service with Desired State Configuration\* Leverage session-based remote management\* Manage files, folders, and registries through the use of PowerShell\* Automate your Azure Cloud with PowerShell\* Discover the best practices to manage Microsoft systemsIn DetailThis 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, WMI, and interact with the COM. After automation, you will enter the Extending PowerShell module, which covers topics such as asynchronous processing and, creating modules and GUIs. 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. At the end of the book, you will get your hands-on experience with some powerful best practices. By the end of the book, you will be an expert in using the PowerShell language.

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.

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. Prior knowledge of PowerShell's core elements and applications is required for this book.

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 along with tips to make you a PowerShell Core 6.0 scripting expert.

Grasp advanced PowerShell 7.1 functionalities for effective automation of your environment 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, although working effectively with these scripts can be challenging. Mastering PowerShell Scripting helps you to 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 system administrators who want to automate and speed up their processes using PowerShel

This updated and expanded second edition of the Mastering Windows PowerShell Scripting provides a user-friendly introduction to the subject Taking a clear structural framework, it guides the reader through the subject's core elements. A flowing writing style combines with the use of illustrations and diagrams throughout the text to ensure the reader understands even the most complex of concepts. This succinct and enlightening overview is a required reading for all those interested in the subject. We hope you find this book useful in shaping your future career & Business.

Enhance and secure your datacenter with the newest Microsoft server platform Key Features Develop necessary skills to design and implement Microsoft Server 2019 in enterprise environment Provide support to your medium to large enterprise and leverage your experience in administering Microsoft Server 2019 Effectively administering Windows server 2019 with the help of practical examples Book 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.

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.

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

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