

EXPERT INSIGHT

Mastering PowerShell Scripting

Automate repetitive tasks and simplify
complex administrative tasks using PowerShell

Fifth Edition



<packt>

Chris Dent

Mastering Powershell

Chris Dent, Brenton J.W. Blawat

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Mastering Powershell:

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

Mastering Windows PowerShell Scripting Brenton J.W. Blawat, 2015-04-27 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

Mastering Windows PowerShell Scripting Chris Dent, Brenton J.W. Blawat, 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

Mastering Windows PowerShell Scripting

Chris Dent, 2019-02-28 Grasp advanced PowerShell Core 6.0 functionalities to automate your environment Key Features Keep up with changes introduced in PowerShell Core 6.0 Easily maintain appropriate compatibility with older versions Automate complex tasks manipulate data and secure your environment with PowerShell Core 6.0 Book Description PowerShell scripts offer a handy way to automate various chores however working effectively with these scripts can be a difficult task This comprehensive guide starts with the fundamentals before moving on to advanced level topics to help you become a PowerShell Core 6.0 expert The first module PowerShell Core 6.0 Fundamentals begins with the new features of PowerShell Core 6.0 installing it on Linux and working with parameters objects and NET classes from within PowerShell Core 6.0 As you make your way through the chapters you ll see how to efficiently manage large amounts of data and interact with other services using PowerShell Core 6.0 You ll be able to make the most of PowerShell Core 6.0 s powerful automation feature where you will have different methods available to parse data and manipulate regular expressions and Windows Management Instrumentation WMI After having explored automation you will enter the extending PowerShell Core 6.0 module covering asynchronous processing and desired state configuration In the last module you will learn to extend PowerShell Core 6.0 using advanced scripts and filters and also debug issues along with working on error handling techniques By the end of this book you will be an expert in scripting with PowerShell Core 6.0 What you will learn Optimize code through the use of functions switches and looping structures Work with objects and operators to test and manipulate data Parse and manipulate different data types Create

scripts and functions using PowerShell Use jobs events and popular public modules which assist with implementing multithreading Write NET classes with ease within the 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 If you are a system administrator who wants to become an expert in controlling and automating your Windows environment then Mastering Windows PowerShell Scripting is for you It is also ideal for those new to the PowerShell language *Mastering PowerCLI* Sajal Debnath, 2015-10-16 Master PowerCLI to automate all aspects of VMware environments About This Book Leverage PowerCLI to perform administration tasks in a more effective and efficient way Escape from daily tedious and repetitive tasks by unleashing the full potential of your creative side through scripting Master the intricate workings of PowerShell and PowerCLI through easy and real life examples Who This Book Is For If you are a system administrator with working knowledge of PowerShell and PowerCLI who wants to perform quick and easy scripting but at the same time achieve complex results and write production grade scripts then this book is for you What You Will Learn Use GitHub for collaboration and Pester to automate unit tests Write advanced reusable functions and dynamic variables and learn about error handling in PowerShell Automate ESXi host installation using Auto Deploy host profile and host image Implement security best practices in a vSphere data center Manage SRM vCloud Air and vRealize Operations environments Access and utilize vSphere APIs to manage advanced aspects of vSphere and work with NET view objects Utilize REST APIs to manage vRealize Automation environments Create a Windows GUI through the use of PowerShell and Sapien PrimalForms CE In Detail Have you ever wished that every morning you could automatically get a report with all the relevant information about your datacenter in exactly the same format you want Or whether you could automate that boring exhausting task What if some crucial task needs to be performed on a regular basis without any error PowerCLI scripts do all that and much more for VMware environments It is built on top of the popular Windows PowerShell with which you can automate server tasks and reduce manual input allowing you to focus on more important tasks This book will help you to achieve your goals by starting with a short refresher on PowerShell and PowerCLI and then covering the nuances of advanced functions and reusable scripts Next you will learn how to build a vSphere powered virtualized datacenter using PowerCLI while managing different aspects of the environment including automated installation network and storage You will then manage different logical constructs of vSphere environment and different aspects of a virtual machine Later you will implement the best practices for a security implementation in vSphere Environment through PowerCLI before discovering how to manage other VMware environments such as SRM vCloud Director and vCloud Air through PowerCLI You will also learn to manage vSphere environments using advanced properties by accessing vSphere API and REST APIs through PowerCLI Finally you will build a Windows GUI application using PowerShell followed by a couple of sample scripts for reporting and managing vSphere environments with detailed explanations of the scripts By the end of the book you will have the required in depth knowledge

to master the art of PowerCLI scripting Style and approach In this book every topic is explained in a very easy to follow fashion with real life simple examples so that you get an idea of not only the topic but also the context in which it should be used or where it can be best utilized [Mastering Powershell](#) Brenton Blawat,2015-04-30 *Mastering Windows PowerShell Scripting* Chris Dent,2019 Grasp advanced PowerShell Core 6 0 functionalities to automate your environment Key Features Keep up with changes introduced in PowerShell Core 6 0 Easily maintain appropriate compatibility with older versions Automate complex tasks manipulate data and secure your environment with PowerShell Core 6 0 Book Description PowerShell scripts offer a handy way to automate various chores however working effectively with these scripts can be a difficult task This comprehensive guide starts with the fundamentals before moving on to advanced level topics to help you become a PowerShell Core 6 0 expert The first module PowerShell Core 6 0 Fundamentals begins with the new features of PowerShell Core 6 0 installing it on Linux and working with parameters objects and NET classes from within PowerShell Core 6 0 As you make your way through the chapters you ll see how to efficiently manage large amounts of data and interact with other services using PowerShell Core 6 0 You ll be able to make the most of PowerShell Core 6 0 s powerful automation feature where you will have different methods available to parse data and manipulate regular expressions and Windows Management Instrumentation WMI After having explored automation you will enter the extending PowerShell Core 6 0 module covering asynchronous processing and desired state configuration In the last module you will learn to extend PowerShell Core 6 0 using advanced scripts and filters and also debug issues along with working on error handling techniques By the end of this book you will be an expert in scripting with PowerShell Core 6 0 What you will learn Optimize code through the use of functions switches and looping structures Work with objects and operators to test and manipulate data Parse and manipulate different data types Create scripts and functions using PowerShell Use jobs events and popular public modules which assist with implementing multithreading Write NET classes with ease within the 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 If you are a system administrator who wants to become an expert in controlling and automating your Windows environment then Mastering Windows PowerShell Scripting is for you It is also ideal for those new to the PowerShell language Downloading the example code for this book You can download the example co

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introduces new chapters on debugging troubleshooting and creating GUIs while covering the latest enhancements in PowerShell 7.3 including parameters objects and .NET classes The book takes you from foundational concepts to advanced techniques covering asynchronous processing desired state configuration and managing large datasets You'll explore PowerShell's automation features error handling strategies and integration with external services Additionally this guide provides practical insights into working with regular expressions Windows Management Instrumentation and complex scripting methods By the end of this book you'll have the skills to efficiently automate tasks troubleshoot scripts and leverage PowerShell's advanced capabilities for real world scenarios What you will learn Create scripts that run across systems for automation Extend PowerShell by integrating it with other languages Use PowerShell's command line interface for efficient operations Develop reusable scripts and functions to streamline tasks Apply PowerShell for administration automation and data processing Integrate with .NET COM and WMI for advanced functionality Work with XML JSON and CSV for structured data handling Build custom modules and cmdlets to enhance scripting 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

Mastering Microsoft Azure Infrastructure Services John Savill, 2015-04-20 Understand create deploy and maintain a public cloud using Microsoft Azure Mastering Microsoft Azure Infrastructure Services guides you through the process of creating and managing a public cloud and virtual network using Microsoft Azure With step by step instruction and clear explanation this book equips you with the skills required to provide services both on premises and off premises through full virtualization providing a deeper understanding of Azure's capabilities as an infrastructure service Each chapter includes online videos that visualize and enhance the concepts presented in the book and access to a Windows app that provides instant Azure updates and demonstrates the process of going from on premises to public cloud via Azure Coverage includes storage customization connectivity virtual networks backing up hybrid environments System Center management and more giving you everything you need to understand evaluate deploy and maintain environments that utilize Microsoft Azure Understand cost options and applications of Infrastructure as a Service IaaS Enable on and off premises connectivity to Azure Customize Azure templates and management processes Exploit key technologies and embrace the hybrid environment Mastering Microsoft Azure Infrastructure Services is your total solution

Mastering Windows Server 2016 Brian Svidergol, Vladimir Meloski, Byron Wright, Santos Martinez, Doug Bassett, 2018-06-13 The IT pros must have guide to Windows Server 2016 Mastering Windows Server 2016 is a complete resource for IT professionals needing to get quickly up to date on the latest release Designed to provide comprehensive information in the context of real world usage this book offers expert guidance through the new tools and features to help you get Windows Server 2016 up and running quickly Straightforward discussion covers all aspects including virtualization products identity and access automation networking

security storage and more with clear explanations and immediately applicable instruction Find the answers you need and explore new solutions as Microsoft increases their focus on security software defined infrastructure and the cloud new capabilities including containers and Nano Server Shielded VMs Failover Clustering PowerShell and more give you plenty of tools to become more efficient more effective and more productive Windows Server 2016 is the ideal server for Windows 10 clients and is loaded with new features that IT professionals need to know This book provides a comprehensive resource grounded in real world application to help you get up to speed quickly Master the latest features of Windows Server 2016 Apply new tools in real world scenarios Explore new capabilities in security networking and the cloud Gain expert guidance on all aspect of Windows Server 2016 migration and management System administrators tasked with upgrading migrating or managing Windows Server 2016 need a one stop resource to help them get the job done Mastering Windows Server 2016 has the answers you need the practicality you seek and the latest information to get you up to speed quickly Mastering Windows Server 2016 Hyper-V John Savill,2016-11-28 Build a seamless flexible full service datacenter solution Microsoft Windows Server 2016 Hyper V is the IT administrator s guide to this rising datacenter solution Hyper V has already surpassed VMWare in datacenter management identity service for multiple devices and more this book shows you how to harness the power of this hypervisor to simplify the infrastructure reduce costs improve productivity and better manage system resources From a tour of the technology through architecture deployment and integration of System Center Microsoft Azure and Microsoft Azure Stack the discussion illustrates the skills you need to create a complete solution for optimum enterprise management Coverage includes Windows Azure capabilities for virtual machines managing a hybrid cloud IaaS storage capabilities PowerShell and more with practical real world guidance from a leading authority in the field Hyper V has recently undergone improvements in scalability and features that have positioned it as an ideal solution in the Small Medium Business and Enterprise markets This book shows you how to exploit these new capabilities to build a robust data solution for your organization Discover the capabilities of Microsoft Hyper V Architect a Hyper V datacenter solution Plan and manage a deployment or migration Integrate complementary technologies for full scalability Data is everywhere on desktops laptops phones and multiple operating systems accessed through email text messages web searches online services and more All of this data must be stored accessible updated backed up secured managed sorted and analyzed sometimes instantly Hyper V is the rising star in the virtualization space and Microsoft Windows Server 2016 Hyper V shows you how to turn greater capabilities into better datacenter solutions **Mastering Powershell** Cybellium,2023-09-06 Cybellium Ltd is dedicated to empowering individuals and organizations with the knowledge and skills they need to navigate the ever evolving computer science landscape securely and learn only the latest information available on any subject in the category of computer science including Information Technology IT Cyber Security Information Security Big Data Artificial Intelligence AI Engineering Robotics Standards and compliance Our mission is to be at the forefront of computer science education offering a wide and

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Mastering PowerShell Christopher Ford, 2023-07 Mastering PowerShell Unleashing the Power of Automation guides you through the complex world of PowerShell scripting and automation This book written for both rookie and expert administrators will provide you with the information and abilities you need to fully utilise PowerShell and revolutionise your IT infrastructure Real world examples and practical exercises reinforce your learning and help you apply PowerShell to your own IT systems throughout the book Whether you re in charge of a small network or a huge organisation this book will help you optimise your operations remove manual duties and achieve unprecedented levels of productivity and efficiency Chapters included Chapter 1 Introduction to PowerShell Chapter 2 Getting Started with PowerShell Chapter 3 Working with Variables and Data Types Chapter 4 Controlling Flow with PowerShell Chapter 5 Managing Files and Folders Chapter 6 Automating Tasks with PowerShell Scripts Chapter 7 Working with PowerShell Modules Chapter 8 Working with the Registry and the Environment Chapter 9 PowerShell Remoting and Background Jobs Chapter 10 Managing Active Directory with PowerShell Chapter 11 PowerShell and Scripting for DevOps Chapter 12 PowerShell for Reporting and Monitoring Chapter 13 PowerShell for Security and Compliance Chapter 14 Extending PowerShell with NET and APIs Chapter 15 Advanced PowerShell Techniques and Tools Chapter 16 PowerShell in the Future Mastering PowerShell Unleashing the Power of Automation is your guide to learning PowerShell automation Join the ranks of IT administrators and automation enthusiasts who have transformed their IT environments and become PowerShell SMEs Use PowerShell to alter the way you manage and automate your systems

Mastering Windows 365 Christiaan Brinkhoff, Sandeep Patnaik, Morten Pedholt, 2023-09-12 Elevate your Windows 365 skillset Go from zero to hero navigating Windows 365 Cloud PC Architectures to Create Deliver and Manage Systems Embraced by Users and IT Professionals Key Features Get unique insights and perspectives from the Microsoft team behind Windows 365 Uncover modern cloud end user experiences with features like Windows 365 switch and boot Learn from the author s experiences and expertise to seamlessly migrate from on premises and VDI ecosystem to the cloud Purchase of the print or Kindle book includes a free PDF eBook Book Description Written by experts from the Windows 365 product group and a seasoned Microsoft MVP this book offers a unique perspective on the features functionality and best practices of Windows 365 Drawing from their extensive professional experience and insight the authors provide invaluable knowledge for those eager to learn about the next generation of cloud computing Get ready to gain deep insights into this cutting edge technology from industry insiders Mastering Windows 365 starts by covering the fundamentals of Windows 365 helping you gain a deep understanding of deployment management access security analysis and extensions with partner solutions As you progress you ll explore the different connectivity layers and options to optimize your network connectivity from the endpoint to your Cloud PC You ll also learn how to manage a Cloud PC via the Microsoft Intune admin center successfully and experience how

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Mastering Skype for Business 2015 Keith Hanna, 2016-04-04 Authoritative hands on guidance for Skype Business administrators Mastering Skype for Business 2015 gives administrators the comprehensive coverage they need to effectively utilize Skype for Business Fully up to date for the 2015 release this guide walks you through industry best practices for planning design configuration deployment and management with clear instruction and plenty of hands on exercises Case studies illustrate the real world benefits of Unified Communication and provide expert experiences working with Skype for Business From server roles infrastructure topology and security to telephony cloud deployment and troubleshooting this guide provides the answers you need and the insight that will make your job easier Sample automation scripts help streamline your workflow and full detailed coverage helps you exploit every capability Skype for Business has to offer Skype for Business enables more robust video conferencing and integrates with Office Exchange and SharePoint for better on premises and cloud operations Organizations are turning to Skype for Business as a viable PBX replacement and admins need to be up to speed and ready to go This book provides the clear explicit instructions you need to Design configure and manage IM voice mail PBX and VoIP Connect to Exchange and deploy Skype for Business in the cloud Manage UC clients and devices remote access federation and public IM Automate management tasks and implement cross team backup and restore The 2015 version is the first Skype to take advantage of the Windows 10 touch first capabilities to provide fast natural hands on control of communications and users are eager to run VoIP HD video conferencing collaboration instant messaging and other UC features on their mobile devices Mastering Skype for Business 2015 helps you get Skype for Business up and running quickly with hands on guidance and expert insight

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Mastering Microsoft Lync Server 2010 Nathan Winters,Keith Hanna,2012-01-10 An in depth guide on the leading Unified Communications platform Microsoft Lync Server 2010 maximizes communication capabilities in the workplace like no other Unified Communications UC solution Written by experts who know Lync Server inside and out this comprehensive guide shows you step by step how to administer the newest and most robust version of Lync Server Along with clear and detailed instructions learning is aided by exercise problems and real world examples of established Lync Server environments You ll gain the skills you need to effectively deploy Lync Server 2010 and be on your way to gaining all the benefits UC has to offer Gets you up and running with Lync Server whether you are migrating from Office Communications Server or new to Lync Server Walks you through all of the essential stages for deploying Lync Server Shows integration with Microsoft Exchange Server and Microsoft SharePoint Server Demonstrates how to monitor diagnose and troubleshoot problems more efficiently Mastering Lync Server 2010 is a must have resource for anyone looking to manage all the various

forms of communication from one user interface Mastering NServiceBus and Persistence Rich Helton,2014-08-26 This book is intended for developers designers and architects alike who wish to build C NServiceBus enterprise architectures and learn how ESB persists data and messages to help them attain their goals No prior knowledge of persistence in NServiceBus is required *Mastering Microsoft Lync Server 2013* Keith Hanna,Nathan Winters,2013-05-15 Everything you need to know to get Lync 2013 up and running smoothly As a Unified Communications UC technology Lync allows you to keep track of your contacts availability so you can communicate with anyone anywhere and at any time With this hands on book you will learn how to administer the newest and most robust version of Lync Server in order to send an IM start or join an audio video or web conference or make a phone call through a familiar interface Packed with real world exercises throughout this unique resource encourages you to learn from the best practices and deployments of others so that you can benefit from their experiences Walks you through designing and managing enterprise instant messaging and conferencing solutions Details how to configure voicemail enterprise voice dual forking and VoIP Teaches you how to automate management tasks Shares invaluable advice for monitoring diagnosing and troubleshooting problems Helps you understand SIP and authentication technologies With *Mastering Microsoft Lync Server 2013* you ll gain the skills you need to effectively deploy Lync Server 2013 and be on your way to gaining all the benefits UC has to offer **Mastering Windows Server 2025** Jordan Krause,2025-10-08 Build the skills needed to modernize your IT infrastructure using Windows Server 2025 with hands on configuration enterprise grade security virtualization and cloud integration Key Features Configure manage secure and troubleshoot Windows Server environments from the ground up Understand and take control of key components including AD DNS DHCP GPO and PKI Apply knowledge in real world labs and walkthroughs that bring each server role to life Purchase of the print or Kindle book includes a free PDF eBook Book DescriptionWritten by a 10 time Microsoft MVP with 25 years of IT and technical coaching experience this practical guide offers real world expertise in Windows Server management From building and connecting servers to securing them and even intentionally breaking them to learn you ll find comprehensive experience based coverage that takes you deep into professional administration Fully updated for the 2025 release this edition prepares you to manage any Windows Server environment whether deploying the latest version or maintaining Server 2012 in a modern infrastructure You ll work with PowerShell Server Manager Windows Admin Center RSAT and Azure Arc to achieve centralized and efficient administration While the focus is on Windows Server 2025 LTSC with Desktop Experience the book also explores Server Core containerization and the evolving role of Nano Server Along the way you ll gain hands on experience with core services including Active Directory DNS DHCP and Group Policy and explore advanced topics such as certificate services and PKI Hyper V virtualization Remote Desktop Services failover clustering DFS and Intune integration By the end of this book you ll have the skills to manage and modernize complex server infrastructures with confidence What you will learn Create an entire lab of new servers and configure multiple roles Manage servers using

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Mastering Powershell Introduction

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