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Your hands-on guide to Windows
PowerShell scripting fundamentals
Expand your expertise--and teach

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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

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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
Learn the art of leveraging PowerShell

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About This Book Master the
fundamentals of PowerShell to
automate Office 365 tasks. Easily
administer scenarios such as user
management, reporting, cloud services,
and many more. A fast-paced guide
that leverages PowerShell commands
to increase your productivity. Who
This Book Is For The book is aimed at
sys admins who are administering
office 365 tasks and looking forward to
automate the manual tasks. They have
no knowledge about PowerShell
however basic understanding of
PowerShell would be advantageous.
What You Will Learn Understand the
benefits of scripting and automation
and get started using Powershell with
Office 365 Explore various PowerShell

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packages and permissions required to manage Office 365 through PowerShell Create, manage, and remove Office 365 accounts and licenses using PowerShell and the Azure AD Learn about using powershell on other platforms and how to use Office 365 APIs through remoting Work with Exchange Online and SharePoint Online using PowerShell Automate your tasks and build easy-to-read reports using PowerShell In Detail While most common administrative tasks are available via the Office 365 admin center, many IT professionals are unaware of the real power that is available to them below the surface. This book aims to educate readers on how learning PowerShell for Office 365 can simplify repetitive and

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complex administrative tasks, and enable greater control than is available on the surface. The book starts by teaching readers how to access Office 365 through PowerShell and then explains the PowerShell fundamentals required for automating Office 365 tasks. You will then walk through common administrative cmdlets to manage accounts, licensing, and other scenarios such as automating the importing of multiple users, assigning licenses in Office 365, distribution groups, passwords, and so on. Using practical examples, you will learn to enhance your current functionality by working with Exchange Online, and SharePoint Online using PowerShell. Finally, the book will help you effectively manage complex and

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

This complete guide takes you on a tour of PowerShell from the basics to its advanced functionality, helping you

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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

Read PDF Powershell For Beginners Master The Powershell Command Line In (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

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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

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no prior experience with PowerShell will have no trouble following along.

Pro PowerShell for Database

Developers helps you master

PowerShell application development

by continuing where other books leave

off. There are no "Hello World"

functions here, just real-world

examples that get down to business.

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applications in a reusable framework.

Read from any data source and write to

any destination. Integrate PowerShell

with SQL Server. Pro PowerShell for

Database Developers shows how to

dive into the PowerShell environment

and customize it to your needs. Learn

about CmdletBinding and its use in

extending functions with powerful new

features. Also learn to package

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functions into libraries called modules that are loaded automatically on demand. PowerShell is about automation and getting work done when you're not around to perform it. To that end you'll see how to schedule PowerShell applications using SQL Agent and the scheduled job cmdlets. And for when you are around to run automated processes in person, you'll learn to add a Windows GUI to your applications to give them that professional polish. Other exciting topics include: Creating objects with custom methods and properties and extending them with PowerShell-style inheritance. Implementing function polymorphism using parameter sets. Using PowerShell as an ETL tool surpassing even SSIS. Creating

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distributed, interruptible, and
multithreaded programs using
PowerShell's workflow engine and the
.Net Windows Workflow Foundation.

All these topics are explained using
real-world examples encapsulated into
modules you can immediately put to
use in your organization. You'll reap
even more as you come to grips with
all that PowerShell can do. Begin the
journey toward deep expertise and
amazing productivity. Buy and read
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environment using PowerShell 7.1
The Ultimate Guide to Learning and
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Command Line in 24 Hours
Getting Started with PowerShell
Workflow Automation Made Easy
Learn PowerShell Scripting in a Month
of Lunches

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

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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

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Build new scripts
with the console, ISE visual
tools, and other popular
hosts Apply best practices
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,

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measure, format, export, and
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convert script output Run
Windows PowerShell flexibly,
using background and
Computer
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
With more than 250 ready-to-
use recipes, this solutions-
oriented introduction to the

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Windows PowerShell scripting environment and language provides administrators with the tools to be productive immediately.

Would You Like To Learn Exactly How You Can Do Even More With PowerShell? - NOW INCLUDES FREE GIFTS! (see below for details) Have you had a taste of the basics of PowerShell that just whet your appetite? Do you want to advance to the next level with PowerShell? Do you want to learn how to get more useful results from PowerShell? Do you want to show your computer who is boss? If the answer to any of these questions is yes, this book will provide you

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with the answers you've been looking for! PowerShell is a fascinating system. It is not so difficult to operate once you know the basics but sometimes you just need a little helping hand. After all, there is so much to learn, it can be tough to know how to continue once you have mastered the basics. Fortunately, you can progress quite easily - this book is designed to help you master the next level of PowerShell. PowerShell is a very orderly system. The key to getting things right is in knowing how to speak the language. And PowerShell can be something of a grammar

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Nazi, especially when it comes to using the right punctuation. Leave off a single quotation mark and your program won't work as you want it to. PowerShell is a powerful tool but it can be open to malicious attack. You need to know how to protect your computer from scripts designed to cause mayhem and mischief. In this book we will look at: How to make sense of the results that you get and how to filter out the results that you are not interested in. You will learn how to get your computer to do all the work for you so that you only get the results that you want. PowerShell can

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generate a lot of data, sometimes a lot more than what you actually need. We look at how you can multitask with PowerShell and how to run longer programs in the background, freeing your system up for other tasks. You will learn how to create jobs and what commands can be very useful when it comes to controlling them. You will learn how to you can overcome a near-fatal flaw in PowerShell's security and how use it safely and securely. You'll learn how to protect your shell from malicious hackers. We will look at the Windows Management Instrumentation and

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introduce you to what it actually does. We will discuss whether or not you actually need to use it and what alternatives there are out there. We will get down to the nuts and bolts of how to use variables to get more of what you want from PowerShell. We also look at writing your own functions and making them into reusable tools. We look at creating your very own cmdlets and tailoring them to your needs. We look at why your scripts aren't running as well as they should and how you can go about fixing them. We then go through how you can prevent errors from cropping

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up in the first place - this is as close to perfection as you are going to get with PowerShell. You also learn how to deal with errors that you cannot prevent, such as network errors and how to get PowerShell to do what you want despite these errors. We look at how you can start to customize your PowerShell experience to suit you and how you can get more out of it. We also run through a quick cheat sheet of the different punctuation marks and how to use them. ...and much more! Also included for a limited time only are 2 FREE GIFTS, including a full length, surprise FREE BOOK! Take the

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first step towards mastering
PowerShell today. Click the
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Windows PowerShell is a
scripting language that
simplifies Windows system
administration. PowerShell
in Practice is a hands-on
reference for administrators
wanting to learn and use
PowerShell. Following the
"in Practice" style,
individual related
techniques are clustered
into chapters. Each
technique is presented in

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the form: problem, solution,
discussion, and includes
annotated code listings.

Written to answer the
question "How can PowerShell
make my job as an
administrator easier?" this
book concentrates on
practical tasks and
automation. Starting with an
a brief tutorial and review,
the majority of the book
focuses on two major
PowerShell usage areas:
People - user accounts,
mailboxes, desktop
configuration; and Servers -
Active Directory, Exchange,
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Hacking Programming
of PowerShell Core 6.0
to perform simple to
complex administration
tasks Learn core
administrative concepts
such as scripting,
pipelines, and DSC Book
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different versions of
PowerShell, Learn
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introduces you to VSCode
and then dives into
helping you understand

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coding techniques, learn
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how to write reusable
code as well as store
and load data with
PowerShell. This book
will help you understand
PowerShell security and
Just Enough
Administration, enabling
you to create your own
PowerShell repository.
The last set of chapters
will guide you in
setting up, configuring,
and working with Release
Pipelines in VSCode and

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VSTS, and help you
understand PowerShell
DSC. In addition to
this, you will learn how
to use PowerShell with
Windows, Azure,
Microsoft Online
Services, SCCM, and SQL
Server. The final
chapter will provide you
with some use cases and
pro tips. By the end of
this book, you will be
able to create
professional reusable
code using security
insight and knowledge of
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to grips with Windows
PowerShell Security Work
with centralization and
DevOps with PowerShell
Implement PowerShell in
your organization
through real-life
examples Learn to create
GUIs and use DSC in
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Windows administrator or
a DevOps user who wants

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to leverage PowerShell
to automate simple to
complex tasks, then this
book is for you. Whether
you know nothing about
PowerShell or just
enough to get by, this
guide will give you what
you need to go to take
your scripting to the
next level. You'll also
find this book useful if
you're a PowerShell
expert looking to expand
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scripting technology
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that enables the
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automation of system
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management tasks and the
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creation of system
management tools.
PowerShell runs on
Windows XP, 2003, 2008,
and Vista. Unlike
traditional Windows
shell scripting,
PowerShell scripting is
object-based and is
designed to work with
the .NET Framework. This
completely updated
edition of Microsoft
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Programming for the

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teaches aspiring
programmers Windows
PowerShell scripting
whether they're using
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or 2.0. To help make
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interesting, you will
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and professor who trains
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range of topics a system
administrator needs to
know to run Windows
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experienced system
administrator looking to
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supposed to "teach" you
aren't good at teaching.
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explain everything in
baby terms, talk down to
you, and leave you
feeling like you didn't
learn anything, or
they're something like a
college textbook where

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everything is incredibly
in-depth. The important
thing about this book is
that it understands that
dilemma. If you're
looking for a quick
guide to get you started
on PowerShell,
scripting, and
automation - one that
will boost you from an
absolute beginner to
somebody with a firm
grasp on the concepts
that they just spent a
bit reading about - then
you're looking at just
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know. We go from the
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very basics of
PowerShell - what it
even is, for example -
to things like
retrieving data and
formatting and filtering
through collections. In
the meantime, we talk
about things such as
PowerShell scripting and
how to get the most out
of PowerShell by
automating certain tasks
using scripts. The
contents of this book

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Formatting PowerShell
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book that covers so much
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that if you purchase
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Windows PowerShell 2 For
Dummies
The Ultimate Beginner's
Guide to Powershell,
Making You a Master at
Windows Powershell
Command Line Fast!

Learn the basic tools and commands
to write scripts in PowerShell 7. This
hands-on guide is designed to get

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you up and running on PowerShell quickly - introducing interactive menus, reading and writing files, and creating code that talks over the network to other scripts, with mini games to facilitate learning.

PowerShell for Beginners starts with an introduction to PowerShell and its components. It further discusses the various tools and commands required for writing scripts in PowerShell 7, with learning reinforced by writing mini games. You will learn how to use variables and conditional statements for writing scripts followed by loops and arrays. You will then work with functions and classes in PowerShell. Moving forward, you will go through the PowerShell Console, customizing the title and text colors. Along the way you will see how to read a key press and make sound in PowerShell.

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The final sections cover game engine layout, how to build a title screen, and implementing the game design using code flow, title screens, levels, and much more. After reading the book you will be able to begin working with PowerShell 7 scripts and understand how to use its tools and commands effectively. What You Will Learn Use Microsoft Visual Studio Code to develop scripts Understand variables, loops and conditional statements in PowerShell Work with scripts to develop a game Discover and use ASCII art generators Comprehend game objects and code Create client-server scripts that communicate over a network Read and write to files Capture input from the keyboard Make PowerShell speak words to help the visually impaired Create text-based adventure games

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Who This Book Is For Software
developers who want to start working
with PowerShell scripts.

Are you interested in learning to code
but you feel the process is too hard
for you? Do you get confused easily
when learning to code and you need
an easy way out? Or have you heard
about the usefulness of Powershell
and you feel you need to learn it? If
your answer is yes to any of these
questions then you really need this
book. This book teaches Powershell in
a way no other one can. It lets you
understand fully what Powershell
entails and it even goes as far as
teaching you about its history. The
teachings are done in a step by step
procedures making it easy for those
without any scripting or programming
experience to catch-up and with
steady practice they can be a master

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in it too. For years now Powershell has been dominating the programming life because of its usefulness and wide application. It's a decent shell-scripting language that combines command-line speed, the flexibility of scripting, and the power of a GUI-based admin tool to perform different user's tasks. All the server products that Microsoft is producing now can be managed through PowerShell so it's a must-learn language for every programmer out there, but the question remains, how can you master such an important language? This powerful book is the answer. Here are some of the reasons why you shouldn't think twice before purchasing this book; **PROPER UNDERSTANDING OF WHAT POWERSHELL ENTAILS:** This book gives you a clear and thorough

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breakdown of what Powershell entails. It goes as far as giving you its history and various Powershell data types. It's believed that you can't fully understand a program if you don't know its origin and importance and this epic book teaches you all that. **STEP-BY-STEP GUIDE:** Without question, the best way to teach is through step by step procedures and that's exactly what this authentic book does. It features clear representations arranged in step-by-step procedures on what to do each time you want to apply a specific command, making it super easy to learn Powershell and with frequent practice, you would become a pro in no time. **NO PROGRAMMING OR SCRIPTING EXPERIENCE NEEDED:** Unlike some other books out there, you need zero knowledge on

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programming or scripting in other to master Powershell. The language used is in a very simple tone yet informational and helpful. You don't need to stress yourself with advanced words in other books when you can learn the same thing here and even more in a basic language. NEW TECHNIQUES FOR BEGINNERS TO TRY: There are more techniques and procedures in Powershell than you can ever imagine. With just a single line of a command, you can perform tasks that manually would take days to complete and this book is jam-packed with a lot of them. You would learn some cool shortcuts, hacks, tricks and other procedures that you can perform easily with your Windows device. Powershell language is a must-learn and thanks to Robert Clarke you too can be part of the multitude

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that's enjoying it and this book is the key.

Learn to use PowerShell, Microsoft's scripting language, to automate real-world tasks that IT professionals and system administrators deal with every day. Save Time. Automate.

PowerShell® is both a scripting language and an administrative shell that lets you control and automate nearly every aspect of IT. In PowerShell for Sysadmins, five-time Microsoft® MVP "Adam the Automator" Bertram shows you how to use PowerShell to manage and automate your desktop and server environments so that you can head out for an early lunch. You'll learn how to:

- Combine commands, control flow, handle errors, write scripts, run scripts remotely, and test scripts with the PowerShell testing

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framework, Pester • Parse structured data like XML and JSON, work with common domains (like Active Directory, Azure, and Amazon Web Services), and create a real-world server inventory script • Design and build a PowerShell module to demonstrate PowerShell isn't just about ad-hoc scripts • Use PowerShell to create a hands-off, completely automated Windows deployment • Build an entire Active Directory forest from nothing but a Hyper-V host and a few ISO files • Create endless Web and SQL servers with just a few lines of code! Real-world examples throughout help bridge the gap between theory and actual system, and the author's anecdotes keep things lively. Stop with the expensive software and fancy consultants. Learn how to manage your own

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

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PowerShell Scripting in
PowerShell, you'll be amazed at how
many opportunities you'll find to save
time and effort. About the Book Learn
PowerShell Scripting in a Month of
Lunches teaches you how to expand
your command-line PowerShell skills
into effective scripts and tools. In 27
bite-size lessons, you'll discover
instantly useful techniques for writing
efficient code, finding and squashing
bugs, organizing your scripts into
libraries, and much more. Advanced
scripters will even learn to access the
.NET Framework, store data long
term, and create nice user interfaces.
What's Inside Designing functions and
scripts Effective pipeline usage
Dealing with errors and bugs
Professional-grade scripting practices

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About the Reader Written for devs
and IT pros comfortable with

PowerShell and Windows. About the

Authors Don Jones is a PowerShell

MVP, speaker, and trainer who has
written dozens of books on

information technology topics. Jeffery

Hicks is a PowerShell MVP and an

independent consultant, trainer, and

author. Don and Jeff coauthored

Manning's Learn Windows PowerShell

in a Month of Lunches, Learn

PowerShell Toolmaking in a Month of

Lunches, and PowerShell in Depth.

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Learning PowerShell is a custom-built, handcrafted, painstakingly curated book designed to get you from total PowerShell newbie to confident PowerShell user in as little as four weeks. This book assumes no prior knowledge, perfect for non-developers and GUI addicts who recognize that PowerShell is the future but need a good bit of

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handholding to achieve mastery. It is also a simple guide for the hundreds of thousands of PowerShell users who have not attained the level of PowerShell knowledge that they really need. With Learning PowerShell at your side, you will see that you don't have to be a developer to use PowerShell and you don't need to be a scripting wizard to derive value from integrating PowerShell into your daily administrative activities. The book is a learning resource that covers every topic worth

discussing for a PowerShell beginner, with a depth of explanation unparalleled by any book currently on the market. With this book, you don't have to have a lot of time to learn the language and you can begin applying what you master almost immediately. Even skeptics of PowerShell, and command lines in general, will come away with a renewed sense of respect for the language and ideas on how to put it to use.

Prepare for the future of Microsoft automation with this no-nonsense guide

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Windows PowerShell 2 is the scripting language that enables automation within the Windows operating system. Packed with powerful new features, this latest version is complex, and Windows PowerShell 2 For Dummies is the perfect guide to help system administrators get up to speed. Written by a Microsoft MVP with direct access to the program managers and developers, this book covers every new feature of Windows PowerShell 2 in a friendly, easy-to-follow format.

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Windows PowerShell 2 is the updated scripting language that enables system administrators to automate Windows operating systems. System administrators with limited scripting experience will find this book helps them learn the fundamentals of Windows PowerShell 2 quickly and easily. Translates the jargon and complex syntax of Windows PowerShell 2. Covers script debugging improvements, the ability to invoke commands remotely, and the new user interface. Uses real-world applications to clarify

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**the theory, fundamentals,
and techniques of the
scripting language Written
by a Microsoft MVP with
direct access to the
developers of Windows
PowerShell 2 Windows
PowerShell 2 For Dummies
makes this tool easily
accessible to administrators
of every experience level.
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**

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**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**

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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

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**expressions and Windows
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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**

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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

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**techniques to define and
restrict the behavior of
parameters Who this book is
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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.**

**Summary PowerShell in
Depth, Second Edition is the
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administrators working with
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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

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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, 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

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**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**

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**Microsoft MVPs, trainers,
and administrators.**

**Collectively, they've
authored nearly three dozen
books on PowerShell and
Windows administration.**

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and scheduling Working
with credentials Regular
expressions Working with
HTML and XML data**

PSDrives and PSProviders

**Variables, arrays, hash
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PowerShell security

Advanced PowerShell syntax

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**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
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the Component Object
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.NET Framework objects
Accessing databases Proxy
functions Building a GUI
WMI and CIM Working with
the web Desired State**

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Microsoft Windows
Powershell 2.0 Programming
for the Absolute Beginner
Learning PowerShell
Windows PowerShell Step by
Step
Learn Powershell Core 6.0
Windows PowerShell for
Developers

Windows PowerShell in Action was written by Bruce Payette, one of the founding members of the Windows PowerShell team, co-designer of the PowerShell language and the principal author of the

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PowerShell language implementation. This book is a tutorial for sysadmins and developers introducing the PowerShell language and its environment. It shows you how to build scripts and utilities to automate system tasks or create powerful system management tools to handle the day-to-day tasks that drive a Windows administrator's life. It's rich in interesting examples that will spark your imagination. The book covers batch scripting and string processing, COM, WMI, and even .NET and WinForms programming. Welcome to PowerShell. The basics.

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Working with types· Operators and expressions· Advanced operators and variables· Flow control in scripts· Functions and scripts· Scriptblocks and objects· Errors, exceptions, and script debugging·

Processing text, files, and XML· Getting fancy-.NET and WinForms· Windows objects: COM and WMI· Security, security, security

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

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in 21 practical bite-sized lessons. As you explore the examples, exercises, and labs, you'll pick up valuable skills immediately and take your first steps to Azure mastery! This fully revised new edition covers core changes to the Azure UI, new Azure features, Azure containers, and the upgraded Azure Kubernetes Service. Purchase of the print book includes a free eBook in PDF, Kindle, and ePub formats from Manning Publications. About the technology Microsoft Azure is vast and powerful, offering virtual servers, application templates, and prebuilt services for

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everything from data storage to AI. To navigate it all, you need a trustworthy guide. In this book, Microsoft engineer and Azure trainer Iain Foulds focuses on core skills for creating cloud-based applications. About the book *Learn Azure in a Month of Lunches, Second Edition*, is a tutorial on writing, deploying, and running applications in Azure. In it, you'll work through 21 short lessons that give you real-world experience. Each lesson includes a hands-on lab so you can try out and lock in your new skills. What's inside *Understanding Azure beyond*

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About the reader This book is
for readers who can write and
deploy simple web or
client/server applications.
About the author Iain Foulds is
an engineer and senior content
developer with Microsoft.
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and persistence; the author
supplies everything else. In
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their code precisely. (No
copying and pasting!) Fix your
mistakes. Watch the programs
run. As you do, you'll learn

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how a computer works; what good programs look like; and how to read, write, and think about code. Zed then teaches you even more in 5+ hours of video where he shows you how to break, fix, and debug your code—live, as he's doing the exercises. Install a complete Python environment Organize and write code Fix and break code Basic mathematics Variables Strings and text Interact with users Work with files Looping and logic Data structures using lists and dictionaries Program design Object-oriented programming Inheritance and composition Modules, classes, and objects

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Core 6.0, 3rd Edition
Snapins, Cmdlets, Hosts and
Providers

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Command Line and Learning
to Script Tasks Effortlessly
*Use PowerShell to Streamline and
Automate Your Most Time-
Consuming Windows Administration
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based system administration and scripting to Windows clients and servers. PowerShell combines the best features of traditional UNIX shells with the immense power of the .NET Framework, offering a consistent and easy-to-use replacement for both the Windows command line and the Windows Script Host. In Essential PowerShell, noted expert Holger Schwichtenberg gives Windows sysadmins all the knowledge and sample scripts they need to successfully administer production systems with PowerShell. Schwichtenberg begins by introducing the innovative PowerShell architecture, along with crucial PowerShell concepts such

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as pipelining and navigation. Next, he introduces the PowerShell Script Language, shows the secure execution of command sequences as scripts, and demonstrates how to use PowerShell to access essential operating system interfaces such as COM, WMI, ADSI, and ADO.NET. After you've mastered the fundamentals, Schwichtenberg presents an extensive collection of PowerShell solutions for virtually every area of day-to-day administration. For each topic, he presents dozens of self-contained examples, all downloadable from a companion Web site. He covers both Microsoft's standard PowerShell commandlets and the free commandlets available as

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PowerShell Community Extensions. He also presents a full chapter of tips, tricks, and troubleshooting solutions. Coverage includes Understanding PowerShell's components and features Setting up your PowerShell scripting environment Creating and using commandlets Using object-oriented pipelining for filtering, sorting, grouping, comparisons, calculations, and more Mastering PowerShell's uniform navigation model and using it with all types of data Programming command sequences with the PowerShell Script Language Making the most of the PowerShell console and third-party tools Managing processes, event logs, and registry entries

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Controlling networking, printing, and software installation Manipulating

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Learn the fundamentals of PowerShell to build reusable scripts and functions to automate administrative tasks with Windows About This Book Harness the capabilities of the PowerShell system to get started quickly with server automation Learn to package commands into a reusable script and add control structures and parameters to make them flexible Get to grips with cmdlets that allow you to perform administration tasks efficiently Who This Book Is For This book is intended for Windows administrators or DevOps users who need to use PowerShell to automate tasks. Whether you know nothing about PowerShell or know just enough to get by, this guide will

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*give you what you need to go to
take your scripting to the next level.
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your installed version of PowerShell,
upgrade it, and start a PowerShell
session using the ISE Discover
PowerShell commands and cmdlets
and understand PowerShell
formatting Use the PowerShell help
system to understand what
particular cmdlets do Utilise the
pipeline to perform typical data
manipulation Package your code in
scripts, functions, and modules
Solve common problems using
basic file input/output functions Find
system information with WMI and
CIM Automate IIS functionality and
manage it using the
WebAdministration module In Detail*

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Windows PowerShell is a task-based command-line shell and scripting language designed specifically for system administration. Built on the .NET Framework, Windows PowerShell helps IT professionals and power users control and automate the administration of the Windows operating system and applications that run on Windows. PowerShell is great for batch importing or deleting large sets of user accounts and will let you collect a massive amount of detailed system information in bulk via WMI (Windows Management Instrumentation). Getting Started with PowerShell is designed to help you get up and running with PowerShell, taking you from the

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basics of installation, to writing scripts and web server automation. This book, as an introduction to the central topics of PowerShell, covers finding and understanding PowerShell commands and packaging code for reusability, right through to a practical example of automating IIS. It also includes topics such as installation and setup, creating scripts, automating tasks, and using Powershell to access data stores, registry, and file systems. You will explore the PowerShell environment and discover how to use cmdlets, functions, and scripts to automate Windows systems. Along the way, you will learn to perform data manipulation and solve common

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problems using basic file input/output functions. By the end of this book, you will be familiar with PowerShell and be able to utilize the lessons learned from the book to automate your servers. Style and approach A practical learning guide, complete with plenty of activities, examples and screenshots.

Take your Office 365 skills to the next level. Master PowerShell for Office 365 to stay competitive in today's world of highly sought after cloud management skills. With expert guidance, IT pros will learn how to leverage the muscle of PowerShell to automate many advanced administrative tasks not otherwise accessible in the Office 365 Admin Center. You will

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discover how to unlock configuration options and automate tasks in order to free up valuable time and resources. This book is your companion to administering Office 365 with PowerShell. You will learn time-saving techniques such as how to streamline administrative tasks, and how to manage users, licenses, and Office 365 services. Expert and MVP Vlad Catrinescu introduces each chapter with an overview and basic fundamentals, such as how to connect to your required service in Office 365, so that you have a solid foundation for success. Benefit from learning the theory behind PowerShell for Office 365 and put your knowledge to practice with numerous hands-on

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code examples. What You'll Learn

Manage users in bulk Export data

such as user lists and groups

Create and manage Office 365

groups Manage Exchange online

distribution lists, mailboxes, and

contacts Configure Skype for

Business settings Perform

compliance searches directly from

PowerShell Who This Book Is For

Any IT pro who needs to manage

Office 365 or one of its services

such as Exchange, SharePoint, or

Skype for Business. Readers

should have a basic knowledge of

PowerShell and the Office 365

service they want to manage.

WHAT IS POWERSHELL?

Windows PowerShell is an item

situated robotization motor and

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scripting language. It is primarily aimed at system administrators. It causes IT experts, to control and mechanize the administration of the Windows operating system and other applications. While many casual users know about the Command Prompt, only a few have heard about Windows PowerShell. PowerShell is a much more powerful tool than the Command Prompt. It is also intended to replace the Command Prompt, as it delivers more power and control over the Windows operating system. Windows PowerShell is a shell initially developed by Microsoft for the purposes of task automation and configuration management. PowerShell is now an open source

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*project, and it can be installed on
Windows, macOS, and Linux*

*platforms. This shell is based on the
.NET framework, and it includes a
command-line shell and a scripting*

language. POWERSHELL FOR

BEGINNERS contains chapters

on... HISTORY OF POWERSHELL

LEARNING POWERSHELL FROM

THE START WHAT IS

POWERSHELL ISE THE

DIFFERENCE BETWEEN

POWERSHELL AND CMD

POWERSHELL PROVIDERS AND

MODULES WHAT MAKES A

POWERSHELL OBJECT?

ENTRANCE TO THE

CONSTRUCTION SITE

UNDERSTANDING OF

POWERSHELL FOREACH LOOP

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**AND FOREACH-OBJECT
WINDOWS POWERSHELL**

PROVIDERS. Who is this book for?

Windows PowerShell is an incredibly powerful tool that is included in Windows, and that is available for many other operating systems. It brings many benefits to power-users and IT professionals. However, casual users can benefit from using it too. The knowledge and skills that you gain from this book can allow you to grasp the basics of windows Powershell scripting. Powershell For Beginners is extensively researched and documented and will prove extremely effective at preparing you to begin an exciting new career as a computer systems administrator or

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how to customize the
platform, work with
developer tools such as
Git and SSH, and more,
while equipping you with
the skills you need in
the real world.

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and manipulate different
data types Write .NET
classes with ease within
the PowerShell Create
and implement regular

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expressions in
PowerShell scripts
Deploy applications and
code with PowerShell's
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modules Leverage session-
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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

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covers advanced-level
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topics to make you a
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PowerShell expert. The
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first module, PowerShell
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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

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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

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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.

This book covers the
topic of Windows
PowerShell and will
teach you all about how

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to use it and all of its
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possibilities.
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Essentially, the
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PowerShell is a command
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line interface that
operates within the
Windows system, with the
purpose of task
automation and
configuration
management. It is a
fairly intuitive system,
and as you will soon
realize, it doesn't take
too long to get the hang
of! Inside, you will
learn how the PowerShell
operates, how the
associated scripting

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language works, the
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different commands you
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will need to know, and
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what kind of things are
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possible when using the
PowerShell. Even if
you're totally new to
programming and have
never used a scripting
environment, at the
completion of this book
you should have a solid
understanding of Windows
PowerShell, and be ready
to get started! Here Is
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***ended up in the right place!
PowerShell is a fantastic first
or second programming
language to learn (and master
with the help of this book!).***

***There's a ton of other
technical guides out there that
aren't clear and concise, and
in my opinion use far too
much jargon. My job is to
teach you in simple, easy to
follow terms how to get started
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programming. You'll find my
personal notes and tips
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returned from a function
to the pipeline,
understanding*

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