Windows Server Automation with PowerShell 7.1 Cookbook, 4E

# [Subtitle:](https://docs.google.com/document/d/1ssj4MD9ldNh5I65kMXG3LDTJH1rBdGd_sjNJlR84FKs/edit#heading=h.4uwa07f5dmdw)

Powerful ways to automate and manage Windows administrative tasks

# [Meta description:](https://docs.google.com/document/d/1ssj4MD9ldNh5I65kMXG3LDTJH1rBdGd_sjNJlR84FKs/edit#heading=h.4uwa07f5dmdw)

# Over 100 recipes to integrate into your scripting work for more effective Windows Server automationPrice: Print - $

# BISAC:

BISAC 1: COM046050 - COMPUTERS / Operating Systems / Windows Server

BISAC 2: COM088020 - COMPUTERS / System Administration / Windows Administration

BISAC 3: COM088000 - COMPUTERS / System Administration / General

# [Key Words:](https://docs.google.com/document/d/1ssj4MD9ldNh5I65kMXG3LDTJH1rBdGd_sjNJlR84FKs/edit" \l "heading=h.4uwa07f5dmdw)

PowerShell automation, powershell 7, powershell 7.1, windows server, windows server 2019, windows server 2022, windows powershell, windows powershell cookbook, windows server 2019 essentials, powershell book

# [Key Features](https://docs.google.com/document/d/1ssj4MD9ldNh5I65kMXG3LDTJH1rBdGd_sjNJlR84FKs/edit" \l "heading=h.4uwa07f5dmdw):

* Develop a holistic understanding of Windows Server 2019 with PowerShell 7.1
* Learn best practices for writing scripts to automate common tasks and manage AD, enterprise security, WMI, Azure, and .NET 5
* Discover new ways to optimize your PowerShell code by working through easy-to-follow recipes

# [Short Description:](https://docs.google.com/document/d/1ssj4MD9ldNh5I65kMXG3LDTJH1rBdGd_sjNJlR84FKs/edit#heading=h.4uwa07f5dmdw)

This cookbook will help you gain a more effective command of PowerShell 7.1 to manage the core roles, features, and services of Windows Server 2019 & 2022. An early adopter of PowerShell himself, Thomas Lee provides an expansive view of the functionality made possible in its latest major release.

# [Long Description:](https://docs.google.com/document/d/1ssj4MD9ldNh5I65kMXG3LDTJH1rBdGd_sjNJlR84FKs/edit#heading=h.4uwa07f5dmdw)

*Windows Server Automation with PowerShell 7.1 Cookbook* encapsulates the real paradigm shift that PowerShell 7 represents. This book is designed to help you learn how to use PowerShell 7.1 effectively and manage the core roles, features, and services of Windows Server 2019 in an enterprise setting. The majority of the scripts are also compatible with Windows Server 2022. Brand new to this heavily updated edition includes recipes exploring the .NET Framework, enterprise server security, and managing Windows Server with WMI.

Thomas Lee equips you with over 100 recipes you’ll need in day-to-day work, covering a wide range of fundamental and more advanced use cases for the IT professional. You’ll look at how to correctly install and configure PowerShell 7.1, useful new features and optimizations, and how the PowerShell compatibility solution bridges the gap to older versions of PowerShell. You’ll learn to use PowerShell to manage networking and DHCP in Windows Server 2019, objects in Active Directory, Hyper-V, and Azure. Being able to debug all your scripts is crucial, so you will also be introduced to some powerful tools to diagnose and resolve issues with Windows Server 2019, making sure you adhere to industry best practices.

# [What you will learn:](https://docs.google.com/document/d/1ssj4MD9ldNh5I65kMXG3LDTJH1rBdGd_sjNJlR84FKs/edit#heading=h.4uwa07f5dmdw)

* Perform key admin tasks on Windows Server 2019
* Keep your organization secure with JEA, group policies, logs, and Windows Defender
* Use the .NET Framework for administrative scripting
* Manage data and storage on Windows, including disks, volumes, and filesystems
* Create and configure Hypreplication aner-V VMs, implementing storage d checkpoints
* Set up virtual machines, websites, and shared files on Azure
* Report system performance using built-in cmdlets and WMI to obtain single measurements
* Know the tools and modules you can use to troubleshoot and debug Windows Server

# [Audience](https://docs.google.com/document/d/1ssj4MD9ldNh5I65kMXG3LDTJH1rBdGd_sjNJlR84FKs/edit#heading=h.4uwa07f5dmdw):

If you are a systems administrator, software architect, developer, or an engineer working with Windows Server 2019 (or incoming 2022) and looking to automate tasks effectively with PowerShell 7.1, this book is for you. Basic knowledge of PowerShell is expected.

# [Approach](https://docs.google.com/document/d/1ssj4MD9ldNh5I65kMXG3LDTJH1rBdGd_sjNJlR84FKs/edit#heading=h.4uwa07f5dmdw)

Packt’s Cookbook format focuses on succinct, step-by-step recipes with accompanying screenshots and commentary. It supplements hands-on scripts with conceptual insight to improve your command of PowerShell and Windows Server across a wide-ranging array of topics.

# [Author Bio](https://docs.google.com/document/d/1ssj4MD9ldNh5I65kMXG3LDTJH1rBdGd_sjNJlR84FKs/edit#heading=h.q1fugz3ggz2o)

Thomas Lee is a consultant/trainer/writer from England and has been in the IT business since the late 1960s. After graduating from Carnegie Mellon University, Thomas joined ComShare where he was a systems programmer building the Commander II time-sharing operating system, a forerunner of today's Cloud computing paradigm. In the mid 1970s he moved to ICL to work on the VME/K operating system. After a sabbatical in 1980/81, he joined Accenture, leaving in 1988 to run his own consulting and training business, which is still active today.

Thomas holds numerous Microsoft certifications, including MCSE (one of the first in the world) and later versions, MCT (25 years), and was awarded Microsoft's MVP award 17 times.