



# Learning PowerCLI - Second Edition

*Robert van den Nieuwendijk*

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## Key Features

- This is first book on the market that will enlighten you on the latest version of PowerCLI and how to implement it
- Effectively manage virtual machines, networks, and reports with the latest features of PowerCLI
- A comprehensive and practical book on automating VMware vSphere

## Book Description

VMware vSphere PowerCLI, a free extension to Microsoft Windows PowerShell, enables you to automate the management of a VMware vSphere or vCloud environment.

This book will show you how to automate your tasks and make your job easier. Starting with an introduction to the basics of PowerCLI, the book will teach you how to manage your vSphere and vCloud infrastructure from the command line. To help you manage a vSphere host overall, you will learn how to manage vSphere ESXi hosts, host profiles, host services, host firewall, and deploy and upgrade ESXi hosts using Image Builder and Auto Deploy. The next chapter will not only teach you how to create datastore and datastore clusters, but you'll also work with profile-driven and policy-based storage to manage your storage. To create a disaster recovery solution and retrieve information from vRealize Operations, you will learn how to use Site Recovery Manager and vRealize Operations respectively. Towards the end, you'll see how to use the REST APIs from PowerShell to manage NSX and vRealize Automation and create patch baselines, scan hosts against the baselines for missing patches, and re-mediate hosts.

By the end of the book, you will be capable of using the best tool to automate the management and configuration of VMware vSphere.

## What you will learn

- Explore PowerShell and PowerCLI cmdlets and their output objects
- See how to manage virtual machines and work with virtual networks
- Manage vCloud Director from PowerCLI
- Use site recovery manager from PowerCLI to create a disaster recovery solution
- Managing NSX and vRealize Automation using REST API with PowerCLI
- Create and configure vSphere HA and DRS clusters
- Use vSphere Update Manager with PowerCLI to create patch baselines and scan hosts
- Explore reporting techniques to retrieve log files

## About the Author

**Robert van den Nieuwendijk** is an IT veteran from the Netherlands with over 25 years of experience in information technology. He holds a Bachelor's degree in Software Engineering. After working for a few years as a programmer of air traffic control and vessel traffic management systems for a company that is now called HITT, he started his own company Van den Nieuwendijk Informatica in 1988. Since then he has worked as a freelance systems engineer for OpenVMS, Windows Server, Linux, and VMware vSphere

systems, mainly for Dutch governmental organizations.

Currently, he is a VMware vCloud Suite administrator at Conclusion Future Infrastructure Technologies. During winter, he is also a ski and snowboard instructor at an indoor ski school. With his background as a programmer, he always tries to make his job easier by writing programs or scripts to perform repetitive tasks. In the past, he used the C programming language, OpenVMS DCL, Visual Basic Script, and KiXtart to do this. Since Windows PowerShell 1.0, he uses Windows PowerShell and VMware vSphere PowerCLI for all of his scripting work.

Robert is a frequent contributor and moderator at the VMware VMTN Communities. VMware awarded him the vExpert title for his "significant contributions to the community and a willingness to share his expertise with others". He has his own blog at <http://rvdnieuwendijk.com> where he shares his knowledge. He writes mainly about VMware vSphere PowerCLI, Windows PowerShell, and VMware vSphere.

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