



PowerCLI

Powercli Script To Generate Performance Report Vmware

Chris Halverson



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Learning PowerCLI Robert van den Nieuwendijk, 2017-02-23 Learn to leverage the power of PowerCLI to automate your VMware vSphere environment with ease About This Book 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 Who This Book Is For This book is ideal for you if you want to learn how to automate your VMware vSphere or vCloud infrastructure by getting the most out of PowerCLI It s assumed that you have some experience in administrating a vSphere or vCloud environment Knowledge of Microsoft s Windows PowerShell is not a prerequisite 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 Manage 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 In Detail 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 Style and approach This comprehensive book will teach system administrators everything about PowerCLI 6 and how to utilize it to automate VMware vSphere

ESXi Operator's Handbook: Automated Administration, Scripting, and Best Practices for VMware Hosts

William E Clark, 2025-08-24 ESXi Operator s Handbook Automated Administration Scripting and Best Practices for VMware Hosts is an authoritative practical guide for operators systems administrators and architects who manage VMware ESXi in modern data centers It begins with a clear exposition of ESXi architecture and core virtualization concepts then quickly moves to operational realities how ESXi fits into vSphere how hosts are configured and maintained and how to think like an operator responsible for availability performance and change at scale The book delivers hands on real world workflows for

automated installation unattended deployments networking storage compute optimization and granular resource management Readers will find step by step examples and best practices for security hardening compliance monitoring and automated remediation alongside extensive scripting and automation patterns using PowerCLI the vSphere REST APIs Terraform Ansible vRealize and common third party integrations to ensure consistency and repeatability across environments Beyond configuration and automation the handbook focuses on observability troubleshooting and threat management so operators can detect diagnose and respond to incidents efficiently Forward looking chapters explore multi cloud and edge architectures and the rise of AI driven operational tooling equipping readers to run scale and secure ESXi hosts with modern automation strong procedures and operational confidence

Mastering VMware vSphere 6.7 Nick Marshall, Mike Brown, G. Blair Fritz, Ryan Johnson, 2018-10-09 Master your virtual environment with the ultimate vSphere guide Mastering VMware vSphere 6 7 is the fully updated edition of the bestselling guide to VMware's virtualization solution With comprehensive coverage of this industry leading toolset this book acts as an informative guide and valuable reference Step by step instruction walks you through installation configuration operation security processes and much more as you conquer the management and automation of your virtual environment Written by certified VMware vExperts this indispensable guide provides hands on instruction and detailed conceptual explanations anchored by practical applications and real world examples This book is the ultimate guide to vSphere helping administrators master their virtual environment Learn to Install configure and manage the vCenter Server components Leverage the Support Tools to provide maintenance and updates Create and configure virtual networks storage devices and virtual machines Implement the latest features to ensure compatibility and flexibility Manage resource allocation and utilization to meet application needs Monitor infrastructure performance and availability Automate and orchestrate routine administrative tasks Mastering VMware vSphere 6 7 is what you need to stay up to date on VMware's industry leading software for the virtualized datacenter

Mastering VMware vSphere 6 Nick Marshall, 2015-03-24 Master your virtual environment with the ultimate vSphere guide Mastering VMware vSphere 6 is the fully updated edition of the bestselling guide to VMware's virtualization solution With comprehensive coverage of this industry leading toolset this book acts as an informative guide and valuable reference Step by step instruction walks you through installation configuration operation security processes and much more as you conquer the management and automation of your virtual environment Written by certified VMware vExperts this indispensable guide provides hands on instruction and detailed conceptual explanations anchored by practical applications and real world examples This book is the ultimate guide to vSphere helping administrators master their virtual environment Learn to Install configure and manage the vCenter Server components Leverage the Support Tools to provide maintenance and updates Create and configure virtual networks storage devices and virtual machines Implement the latest features to ensure compatibility and flexibility Manage resource allocation and utilization to meet application needs Monitor infrastructure

performance and availability Automate and orchestrate routine administrative tasks Mastering VMware vSphere 6 is what you need to stay up to date on VMware's industry leading software for the virtualized datacenter 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 PowerCLI Essentials Chris Halverson, 2016-04-25 Simplify and automate server administration tasks with

PowerCLI About This Book Automate VMware's vSphere environment by learning the essentials of PowerCLI Impress your peers by developing scripts to perform administration tasks Discover the intricate workings of PowerCLI through simple and real life examples Who This Book Is For PowerCLI Essentials is focused toward virtualization professionals and system administrators who want to discover and learn about the automation techniques associated with PowerCLI for complex virtual environments What You Will Learn Download and install PowerCLI and its basics as well as the basics of PowerShell Enhance your scripting experience Build longer scripts and simpler reports Relate a task in VMware administration to a PowerCLI script Discover methods to acquire and change information remotely Set up orchestrator to manage your workflow In Detail Have you ever wished you could automatically get a report with all the relevant information about your VMware environments in exactly the format you want Or that you could automate a crucial task that needs to be performed on a regular basis Powerful Command Line Interface PowerCLI scripts do all these things and much more for VMware environments PowerCLI is a command line interface tool used to automate VMware vSphere environments It is used to handle complicated administration tasks through use of various cmdlets and scripts which are designed to handle certain aspects of vSphere servers and to help you manage them This book will show you the intricacies of PowerCLI through real life examples so that you can discover the art of PowerCLI scripting At the start you will be taught to download and install PowerCLI and will learn about the different versions of it Moving further you will be introduced to the GUI of PowerCLI and will find out how to develop single line scripts to duplicate running tasks produce simple reports and simplify administration Next you will learn about the methods available to get information remotely Towards the end you will be taught to set up orchestrator and build workflows in PowerShell with update manager and SRM scripts Style and approach Each and every topic in this book is explained in a very easy to follow fashion with real life simple examples so you'll get an idea not only about working with PowerCLI but will also get an idea about scripting

DevOps for VMware Administrators Trevor Roberts, Josh Atwell, Egle Sigler, Yvo van Doorn, 2015 DevOps for VMware Administrators is the first book focused on using DevOps tools and practices with VMware technologies The authors introduce high value tools from third parties and VMware itself and guide you through using them to improve the performance of all your virtualized systems and applications You'll walk through automating and optimizing configuration management provisioning log management continuous integration and more The authors also offer step by step coverage of deploying and managing applications at scale with Docker containers and Google Kubernetes They conclude with an up to the minute discussion of VMware's newest DevOps initiatives including VMware vRealize Automation and VMware vRealize Code Stream Coverage includes Understanding the challenges that DevOps tools and practices can help VMware administrators to solve Using Vagrant to quickly deploy Dev and Test environments that match production system specifications Writing Chef recipes that streamline server configuration and maintenance Simplifying Unix Linux configuration management and orchestration with Ansible Implementing Docker

containers for faster and easier application management Automating provisioning across the full lifecycle with Razor Integrating Microsoft PowerShell Desired State Configuration DSC and VMware PowerCLI to automate key Windows Server and vSphere VM admin tasks Using Puppet to automate infrastructure provisioning configuration orchestration and reporting Supercharging log management with ELK Elasticsearch Logstash Kibana Supporting DevOps source code management with Git and continuous integration practices with Jenkins Achieving continuous integration delivery and deployment with VMware s vRealize Code Stream

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Powercli Script To Generate Performance Report VMware Introduction

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