
N Automation 7 Vmware

Mastering VMware vSphere 6.7
DevOps for VMware Administrators
Professional VMware Server
VMware vRealize Orchestrator Cookbook - Second Edition
IBM System Storage N series Reference Architecture for Virtualized Environments
VMware vSphere PowerCLI Reference
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Mastering VMware vSphere 6.7
Automating vSphere with VMware vCenter Orchestrator
Operationalizing VMware NSX
Mastering vRealize Automation 6.2
Scripting VMware Power Tools: Automating Virtual Infrastructure Administration
IBM System Storage N series and VMware vSphere Storage Best Practices
VMware Certified Professional 6 Exam Guide (Exam #2V0-642)
Learning PowerCLI
VMware vRealize Orchestrator Cookbook
VMware vRealize Automation Handbook
Intelligent Automation with VMware
The Complete VMware vSphere Guide
Mastering VMware vSphere 6
Mastering CloudForms Automation
IBM System Storage N series with VMware vSphere 5
VMware vSphere PowerCLI Reference
Ansible for VMware by Examples
Building VMware Software-Defined Data Centers
Learning VMware vRealize Automation
Advances in Engineering and Information Science Toward Smart City and Beyond
VMware vRealize Orchestrator Cookbook
VMware vSphere 6.7 Data Center Design Cookbook
VMware NSX Automation Fundamentals
VMware NSX Cookbook
Network Programmability and Automation
VCP5-DCV VMware Certified Professional-Data Center Virtualization on vSphere 5.5 Study Guide
VMware Software-Defined Storage
Grid and Distributed Computing, Control and Automation
VMware vSphere 6.x Datacenter Design Cookbook
Mastering VMware vSphere 6
VMware Cross-Cloud Architecture

ALEJANDRO SHAYLEE

Mastering VMware vSphere 6.7 Apress

This IBM® Redbooks® publication provides a basic introduction to the IBM System Storage® N series, virtualization, and VMware 5.x. It explains how to use the N series with VMware vSphere 5 environments and the benefits of doing so. Examples are given on how to install and set up VMware ESXi server with the N series. The IBM System Storage N series used as a storage foundation offers unified storage solutions that provide industry-leading technologies in the areas of storage efficiencies, instantaneous virtual machine and datastore cloning for virtual servers and virtual desktops, and virtual data center backup and business continuance solutions. The information provided can be also be used as a foundation to create dynamic cloud solutions, making full use of underlying storage features and functions. This book provides a blueprint for how clients can create a virtualized infrastructure/storage cloud that will help to address current and future data storage business requirements. IBM System Storage N series in conjunction with VMware vSphere 5 helps complete the virtualization hierarchy by providing both a server and storage virtualization solution. Although this configuration can further assist with other areas of virtualization, networks, and applications, these areas of virtualization are not covered in detail in this book.

DevOps for VMware Administrators John Wiley & Sons

Network virtualization at your fingertips Key Features Over 70 practical recipes created by two VCIX-NV certified NSX experts Explore best practices to deploy, operate, and upgrade VMware NSX for vSphere Leverage NSX REST API using various tools from Python in VMware vRealize Orchestrator Book Description This book begins with a brief introduction to VMware's NSX for vSphere Network Virtualization solutions and how to deploy and configure NSX components and features such as Logical Switching, Logical Routing, layer 2 bridging and the Edge Services Gateway. Moving on to security, the book shows you how to enable micro-segmentation through NSX Distributed Firewall and Identity

Firewall and how to do service insertion via network and guest introspection. After covering all the feature configurations for single-site deployment, the focus then shifts to multi-site setups using Cross-vCenter NSX. Next, the book covers management, backing up and restoring, upgrading, and monitoring using built-in NSX features such as Flow Monitoring, Traceflow, Application Rule Manager, and Endpoint Monitoring. Towards the end, you will explore how to leverage VMware NSX REST API using various tools from Python to VMware vRealize Orchestrator. What you will learn Understand, install, and configure VMware NSX for vSphere solutions Configure logical switching, routing, and Edge Services Gateway in VMware NSX for vSphere Learn how to plan and upgrade VMware NSX for vSphere Learn how to use built-in monitoring tools such as Flow Monitoring, Traceflow, Application Rule Manager, and Endpoint Monitoring Learn how to leverage the NSX REST API for management and automation using various tools from Python to VMware vRealize Orchestrator Who this book is for If you are a security and network administrator and looking to gain an intermediate level for network and security virtualization, then this book is for you. The reader should have a basic knowledge with VMware NSX.

Professional VMware Server "O'Reilly Media, Inc."

Over 75 practical recipes to confidently design an efficient virtual datacenter with VMware vSphere 6.x About This Book Get the first book on the market that helps you design a virtualized data center with VMware vSphere 6 Achieve enhanced compute, storage, network, and management capabilities for your virtual data center Exciting and practical recipes help you to design a virtual data easily by leveraging the features of VMware vSphere 6 Who This Book Is For If you are an administrator or consultant interested in designing virtualized datacenter environments using VMware vSphere 6.x or previous versions of vSphere and the supporting components, this book is for you. It will help both new and experienced architects deliver professional VMware vSphere virtual datacenter designs. What You Will Learn Identify key factors related to a vSphere design and apply them to every step of the design process Mitigate security risks and meet compliance requirements in a vSphere design. Create a vSphere conceptual

design by identifying technical and business requirements Determine the type of database to use based on the deployment size. Design for performance, availability, recoverability, manageability, and security Map the logical resource design into the physical vSphere design Create professional vSphere design documentation to ensure a successful implementation of the vSphere design Leverage the latest vSphere 6.x features to ensure manageability, performance, availability, and security in a virtual datacenter design In Detail VMware is the industry leader in data center virtualization. The vSphere 6.x suite of products provides a robust and resilient platform to virtualize server and application workloads. With the release of 6.x a whole range of new features has come along such as ESXi Security enhancements, fault tolerance, high availability enhancements, and virtual volumes, thus simplifying the secure management of resources, the availability of applications, and performance enhancements of workloads deployed in the virtualized datacenter. This book provides recipes to create a virtual datacenter design using the features of vSphere 6.x by guiding you through the process of identifying the design factors and applying them to the logical and physical design process. You'll follow steps that walk you through the design process from beginning to end, right from the discovery process to creating the conceptual design; calculating the resource requirements of the logical storage, compute, and network design; mapping the logical requirements to a physical design; security design; and finally creating the design documentation. The recipes in this book provide guidance on making design decisions to ensure the successful creation, and ultimately the successful implementation, of a VMware vSphere 6.x virtual data center design. Style and Approach The book follows a recipe-based approach that consists of practical recipes to effectively design a virtual data center.

VMware vRealize Orchestrator Cookbook - Second Edition Packt Publishing Ltd

Learn the fundamentals of vRealize Automation to accelerate the delivery of your IT services About This Book Learn to install the vRealize Automation product in a distributed architecture using a

load balancer Plan backup and recovery strategies for every vRealize automation component Use vRealize Automation to manage applications and improve operational efficiency using this simple and intuitive guide Who This Book Is For This book is for anyone who wants to start their journey with vRealize Automation. It is your one-stop instruction guide to installing and configuring a distributed setup using NSX load balancer. Regardless of whether or not you have used vRealize Automation before, following the steps provided in each chapter will get you started with the product. What You Will Learn Understand the basic building blocks of vRealize Automation before embarking on the journey of installation Familiarize yourself with the requirements and steps that need to be performed during the first phase of the distributed installation Carry out a functional validation of the first phase of installation before completing the installation Build a blueprint for vSphere endpoint, an essential step for a successful deployment of a service catalog Create, configure, and deploy tenants, endpoints, blueprints, and the service catalog Get to grips with the failover process for all components in vRealize Automation Learn to configure the NSX loadbalancer for vRealize Orchestrator for high availability Leverage ASD to develop XaaS (Anything as a Service) in vRealize Automation to deliver valuable competence In Detail With the growing interest in Software Defined Data Centers (SDDC), vRealize Automation offers data center users an organized service catalog and governance for administrators. This way, end users gain autonomy while the IT department stays in control, making sure security and compliance requirements are met. Learning what each component does and how they dovetail with each other will bolster your understanding of vRealize Automation. The book starts off with an introduction to the distributed architecture that has been tested and installed in large scale deployments. Implementing and configuring distributed architecture with custom certificates is unarguably a demanding task, and it will be covered next. After this, we will progress with the installation. A vRealize Automation blueprint can be prepared in multiple ways; we will focus solely on vSphere endpoint blueprint. After this, we will discuss the high availability configuration via NSX loadbalancer for vRealize Orchestrator. Finally, we end with Advanced Service Designer, which provides service architects with the ability to create advanced services and publish them as

catalog items. Style and approach This book takes a step-by-step approach, is explained in a conversational and easy-to-follow style, and includes ample screenshots . Each topic is explained sequentially through planning, preparing, installing, configuring, and validating of all vRealize Automation's components. **IBM System Storage N series Reference Architecture for Virtualized Environments** John Wiley & Sons IBM® System Storage® N series technology enables companies to extend their virtual infrastructures to include the benefits of advanced storage virtualization. The N series offers unified storage solutions that provide industry-leading technologies in the areas of storage efficiencies, instantaneous virtual machine and datastore cloning for virtual servers and virtual desktops, and virtual data center backup and business continuance solutions. This IBM Redbooks® publication reviews the best practices for anyone who is implementing VMware® vSphere with N series unified storage arrays. **VMware vSphere PowerCLI Reference** Springer Nature Get hands-on experience with vRealize Orchestrator and automate your VMware environment About This Book Gain an in-depth understanding of vRO in the VMware infrastructure Create your own advanced vRO scripts using JavaScript A step-by-step tutorial to manage and create workflows with vRO Who This Book Is For This book is for VMware vSphere administrators who have minimal experience with automation tools and want to learn how to effectively automate their environment with VMware vRealize Orchestrator. A basic understanding of the VMware vSphere terms and concepts would be helpful. What You Will Learn Familiarize yourself with the Orchestrator architecture and Explore how plugins can expand Orchestrator's capabilities Explore how plug-ins can expand Orchestrator's capabilities Deploy and configure the vRealize Orchestrator appliance Schedule and run workflows using the vSphere Web Client Create your own workflows with minimal work Use workflow presentations to improve your automation projects Integrate JavaScript to enhance your workflows Debug your workflows for errors and fix them Learn how to create, import, and export packages, to enable easy exchange solutions with others In Detail The automation of virtual environments has become the focus of many endeavors. VMware vRealize Orchestrator is a tool that enables you to automate not only your VMware environments, but

also the surrounding hardware and software infrastructure. Orchestrator is also a central tool in the VMware cloud initiative and is extensively used by products such as vRealize Automation. In this book, you will learn how Orchestrator is able to help you automate your complete VMware infrastructure as well as its surrounding hardware and software. After deploying and configuring the vRealize Orchestrator appliance, you will learn how to run the existing workflows that are a part of the Orchestrator library. You will also see how the vSphere Web Client integration of Orchestrator reduces the time you spend on your daily admin tasks. The main aspect here is to learn how to create new workflows from existing ones. You will also look at how you can create completely new workflows. This includes learning about JavaScript and using presentation features to improve the layout and user friendliness of your workflows. Toward the end, you will learn to check for errors in your workflows and debug them. By the time you're done with the book, you'll be proficient in managing your workflows. Style and approach This book follows a sequential approach with ample screenshots in the examples that convey a deeper understanding of all Orchestrator-related tasks. *VMware vRealize Orchestrator Cookbook* IBM Redbooks Learn to use the Ansible open source IT automation tool to automate your VMware infrastructure. This book contains all of the obvious and not-so-obvious best practices of Ansible automation. Each lesson summarizes a specific use case for the modern VMware infrastructure and is focused on a single module from the most important parameter, including live demo of code and real-life usage. You'll configure the Ansible Controller to interact with VMware infrastructure using the "community.VMware" Ansible documentation collection and the appropriate Python libraries. Next, learn how to automate the creation of a virtual machine manually and from a template, start and stop using the shutdown and forced-power off a Virtual Machine, take and delete and snapshot, add a new hard disk and expand a currently attached hard disk, as well as gather information for data centers, clusters, host systems, and virtual machines. By the end of this book, you'll be well-versed in efficiently maintaining a VMware infrastructure with Ansible Automation. You'll also be able to save time and reduce manual errors using simple human-readable automation technology. What

You'll Learn Automate your VMware infrastructure using Ansible code Install Ansible in operating systems such as RedHat, Ubuntu, Fedora, etc. Write and execute your first Ansible Playbook code Troubleshoot the most common error messages Who This Book Is For IT professionals of every industry who would like a jargon-free understanding of Ansible technology, including VMware, Linux, and Windows Systems Administrators, DevOps professionals, thought leaders, and infrastructure-as-code enthusiasts.

Mastering VMware vSphere 6.7 Packt Publishing Ltd 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 administering 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.

Automating vSphere with VMware vCenter Orchestrator BPB Publications

Prepare for the VCP-DCV Exam Prepare yourself for VMware's challenging VMware Certified Professional-Data Center Virtualization exam, as well as the typical tasks and responsibilities you can expect as a VMware vSphere 5.5-certified professional. This comprehensive book guides you through all topics and objectives you'll need to know for the exam. These include planning, installing, upgrading, and securing vCenter Server and ESXi; configuring networking and storage; performing basic troubleshooting; and more. You'll also gain access to premium online practice and review tools. Prepares certification candidates for the VMware Certified Professional-Data Center Virtualization exam (VCP-DCV) Covers all exam objectives Features real-world scenarios, hands-on exercises, and challenging review questions Explores key topics such as securing vCenter and ESXi, planning and configuring vSphere networking and storage, creating and deploying virtual machines and vApps, establishing services levels, and more Includes access to online practice exams, flashcards, and other study tools If you want the best preparation for the VCP-DCV certification exam, you'll want VCP-DCV VMware Certified Professional Data Center Virtualization on vSphere Study Guide.

Operationalizing VMware NSX John Wiley & Sons

Over 90 recipes to satisfy all your automation needs and leverage vRealize Orchestrator 7.1 for your projects About This Book Unleash the power of VMware vRealize Orchestrator 7 and automate your VMware infrastructure Customize and tune your orchestrator by programming and working with plugins Work

through enticing recipes that can be implemented in your organization Explore the new and upcoming plugins of Puppet, Docker, Chef, and VMware Replication for VMware vRealize Orchestrator Who This Book Is For This book is for system administrators who are into VMware administration and are looking to automate their infrastructure. Basic knowledge about programming is needed. No previous knowledge of Orchestrator is required. This book will also be good for you if you have just a basic knowledge with vRealize Orchestrator, as you can pick up any recipe and implement it for your enterprise. What You Will Learn Install, configure, and optimize Orchestrator installations (Windows, Appliance, and vRA integrated) Explore all the visual programming elements without needing additional infrastructure Work with plugins such as SSH, mail, SQL, PowerShell, AD, SOAP, SNMP, AMQP, and REST Discover how to create VMware automation Get to know about user management, import/export, and synchronization as well as the packaging application Understand policies, resources, and web views Troubleshoot vRO Appliance In Detail VMware vRealize Orchestrator is a powerful automation tool designed for system administrators and IT operations staff who are planning to streamline their tasks and are waiting to integrate the functions with third-party operations software. This book is an update to VMware vRealize Orchestrator Cookbook and is blend of numerous recipes on vRealize Orchestrator 7. This book starts with installing and configuring vRealize Orchestrator. We will demonstrate how to upgrade from previous versions to vRealize Orchestrator 7. You will be taught all about orchestrator plugins and how to use and develop various plugins that have been enhanced in Orchestrator 7. Throughout this book, you will explore the new features of Orchestrator 7, such as the introduction of the control center, along with its uses. You will also come to understand visual programming, how to integrate base plugins into workflows, and how to automate VMware. You will also get to know how to troubleshoot vRealize Orchestrator. By the end of this book, you will be able to get the most out of yo...

Mastering vRealize Automation 6.2 Packt Publishing Ltd

Unleash the Power of vCenter Orchestrator to Automate Tasks and Improve Efficiency Today, VMware administrators are responsible for far more infrastructure, servers, and services than ever before. To succeed, they must take full advantage of

opportunities to automate and orchestrate their vSphere environments. In Automating vSphere with VMware vCenter Orchestrator, three-time vExpert Cody Bunch shows how to utilize VMware vCenter Orchestrator (vCO) 4.2 to achieve far higher levels of operational efficiency and effectiveness. Bunch reveals what vCO can do, walks through each step of installation and configuration, explains how its “moving parts” work together, and thoroughly introduces both plug-ins and workflows. Building on this core knowledge, he presents several start-to-finish case studies showing how to use vCO to address real-world challenges ranging from provisioning to snapshots, cluster management to decommissioning. Whatever your VMware virtualization environment, this book will help you do more with less, save time, eliminate errors, and improve both performance and reliability. Coverage includes Understanding how vCO fits into your environment and identifying your best opportunities to use it Choosing the right installation scenario and efficiently managing the vCO installation process Configuring vCO: services, passwords, networking, LDAP, databases, SSL, licensing, plug-ins, backup, and more Interacting with vCO through actions, packages, plug-ins, web views, resources, and workflows Automating manual tasks with vCO’s extensive workflow library Creating sophisticated workflows with drag-and-drop components and JavaScript Using plug-ins to control infrastructure within and around your vSphere environment Bringing consistency to VM provisioning, overcoming “VM sprawl” and resource contention, and simplifying support Optimizing VM lifecycle management, all the way through decommissioning Automating all snapshot monitoring processes and components Exporting logs, finding/deleting orphaned files, and performing other day-to-day tasks Efficiently conducting mass VM migrations Quickly adding vCenter hosts and clusters, configuring shared storage, and adding hosts to new clusters Using vCO and third-party plug-ins to gain “private cloud” benefits and flexibility Networking/Virtualization vmware.com/go/vmwarepress [Scripting VMware Power Tools: Automating Virtual Infrastructure Administration](#) Syngress Learn, Master & Ace VMware Network Virtualization Exam #2V0-642 with hands-on knowledge KEY FEATURES ● Get your grips on the basics of NSX-V network virtualization platform ● Explore NSX core components along with a detailed compare and

contrast of its benefits and implementation ● In-depth practical demonstration of network function virtualisation concepts with system image ● Integrate VMware NSX Integration with third party tools, products, services and systems using APIs ● Start with the basics and progress to advanced concepts in every chapter ● Deep dive into vDS capabilities including creation & deletion, adding/deleting ESXi hosts, configuring virtual ports and much more ● Hands-on demonstration on configuring and managing vSphere Networking, Network Security, NSX Network Services DESCRIPTION Starting with the very basics of Networking virtualization, this book is a comprehensive guide to help you get certified as a VMware Professional. This book discusses the relationships between physical and virtual network infrastructure, networking devices, their working concepts and moves on to demonstrating the installation, configuration, administration, and operations performance in VMware NSX environment. The easy to follow explanations along with relevant visual aids like snapshots, tables and relevant figures will help you to practically follow the course of the book with ease. Initial chapters explore the various components of VMware NSX, its architecture and implementation in the network. Going forward its integration with third-party hardware, applications and services have been discussed extensively. Automation, Monitoring, and role assignments have been covered in concluding sections of the guide thus providing an end-to-end visibility on the topic. With all the information mentioned in this guide, grasped, and fully understood, you can target cracking the prestigious VMware certification VCP6-NV-2V0-642 successfully. WHAT YOU WILL LEARN ● Understand Network Virtualization & NSX Core Components ● Explore VMware NSX Technology and Architecture & Physical Infrastructure requirements ● Configure & Manage vSphere Networking ● Install, configure, manage & Upgrade VMware NSX Virtual Network ● Understand how to Configure & Administer Network Security ● Deploy a Cross-vCentre NSX environment ● Perform Operations Tasks in a VMware NSX Environment WHO THIS BOOK IS FOR This book is intended for IT infrastructure personnel engaged in networking, datacenter and cloud administration. With the knowledge gained through this guide, you can get certified as a VMware Professional (VCP6-NV-2V0-642) and progress further in your networking career. Prior understanding of the relationship between physical and virtual

network infrastructures alongwith networking devices & their working concepts is necessary. TABLE OF CONTENTS 1. Basics of NSX-vNetwork Virtualization Platform 2. NSX Core Components 3. Compare and Contrast the Benefits of VMware NSX Implementation 4. Understand VMware NSX Architecture 5. Differentiate Physical and Virtual Network 6. VMware NSX Integration with Third-Party Products and Services 7. VMware NSX Integration with vRealize Automation 8. Compare and Contrast the Benefits of Running VMware NSX on Physical Network Fabrics 9. Determine Physical Infrastructure Requirements for VMware NSX Implementation 10. Configure and Manage vSphere Distributed Switches 11. Configure and Manage vDS Policies 12. Configure Environment for Network Virtualization 13. Deploy VMware NSX Components 14. Upgrade Existing vCNS/NSX Implementation 15. Expand Transport Zone to Include New Cluster(s) 16. Creating and Administering Logical Switches 17. Configure VXLAN 18. Configure and Manage Layer 2 Bridging 19. Configure and Manage Logical Routers 20. Configure and Manage Logical Load Balancing 21. Configure and Manage Logical Virtual Private Networks (VPN) 22. Configuring and Managing DHCP, DNS, and NAT 23. Configure and Manage EDGE Services HA (High Availability) 24. Configure and Administer Logical Firewall Services 25. Configure Distributed Firewall Services 26. Configure and Manage Service Composer 27. Differentiate Single and Cross-vCenter NSX Deployment 28. Differentiate Cross vCenter Requirements and Configurations 29. Configure Roles, Permissions, and Scopes 30. Understanding NSX Automation 31. Monitor a VMware Implementation 32. Perform Auditing and Compliance 33. Backup and Recover Configurations *IBM System Storage N series and VMware vSphere Storage Best Practices* Springer Nature 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

VMware Certified Professional 6 Exam Guide (Exam #2V0-642)
Prentice Hall

Make the most of software-defined data centers with revolutionary VMware technologies About This Book Learn how you can automate your data center operations and deploy and manage applications and services across your public, private, and hybrid infrastructure in minutes Drive great business results with cost-effective solutions without compromising on ease, security, and controls Transform your business processes and operations in a way that delivers any application, anywhere, with complete peace of mind Who This Book Is For If you are an IT professional or VMware administrator who virtualizes data centers and IT infrastructures, this book is for you. Developers and DevOps engineers who deploy applications and services would also find this book useful. Data center architects and those at the CXO level who make decisions will appreciate the value in the content. What You Will Learn Understand and optimize end-to-end processes in your data center Translate IT processes and business needs into a technical design Apply and create vRO workflow automation functionalities to services Deploy NSX in a virtual environment Technically accomplish DevOps offerings Set up and

use vROPs to master the SDDC resource demands Troubleshoot all the components of SDDC In Detail VMware offers the industry-leading software-defined data center (SDDC) architecture that combines compute, storage, networking, and management offerings into a single unified platform. This book uses the most up-to-date, cutting-edge VMware products to help you deliver a complete unified hybrid cloud experience within your infrastructure. It will help you build a unified hybrid cloud based on SDDC architecture and practices to deliver a fully virtualized infrastructure with cost-effective IT outcomes. In the process, you will use some of the most advanced VMware products such as vSphere, vCloud, and NSX. You will learn how to use vSphere virtualization in a software-defined approach, which will help you to achieve a fully-virtualized infrastructure and to extend this infrastructure for compute, network, and storage-related data center services. You will also learn how to use EVO:RAIL. Next, you will see how to provision applications and IT services on private clouds or IaaS with seamless accessibility and mobility across the hybrid environment. This book will ensure you develop an SDDC approach for your datacenter that fulfills your organization's needs and tremendously boosts your agility and flexibility. It will also teach you how to draft, design, and deploy toolsets and software to automate your datacenter and speed up IT delivery to meet your lines of businesses demands. At the end, you will build unified hybrid clouds that dramatically boost your IT outcomes. Style and approach With the ever-changing nature of businesses and enterprises, having the capability to navigate through the complexities is of utmost importance. This book takes an approach that combines industry expertise with revolutionary VMware products to deliver a complete SDDC experience through practical examples and techniques, with proven cost-effective benefits.

Learning PowerCLI Packt Publishing Ltd

Unleash the benefits of VMware vSphere 6.7 to provide a powerful, flexible and secure digital infrastructure Key Features Deep dive into areas like management, security, scalability, availability and more with vSphere 6.7 Design, deploy and manage VMware vSphere virtual datacenters Implement monitoring and security of VMware workloads with ease Book Description vSphere 6.7 is the latest release of VMware's industry-leading, virtual cloud platform. It allows organisations to

move to hybrid cloud computing by enabling them to run, manage, connect and secure applications in a common operating environment. This up-to-date, 2nd edition provides complete coverage of vSphere 6.7. Complete with step-by-step explanations of essential concepts, practical examples and self-assessment questions, you will begin with an overview of the products, solutions and features of the vSphere 6.7 suite. You'll learn how to design and plan a virtual infrastructure and look at the workflow and installation of components. You'll gain insight into best practice configuration, management and security. By the end the book you'll be able to build your own VMware vSphere lab that can run even the most demanding of workloads. What you will learn Explore the immense functionality of vSphere 6.7 Design, manage and administer a virtualization environment Get tips for the VCP6-DCV and VCIX6-DCV exams Understand how to implement different migration techniques across different environments Explore vSphere 6.7s powerful capabilities for patching, upgrading and managing the configuration of virtual environments Understand core vSphere components Master resource management, disaster recovery, troubleshooting, monitoring and security Who this book is for This book is for Administrators, Infrastructure Engineers, Architects, and Consultants with basic knowledge of VMware vSphere. VMware vRealize Orchestrator Cookbook "O'Reilly Media, Inc."

The inside guide to the next generation of data storage technology VMware Software-Defined Storage, A Guide to the Policy Driven, Software-Defined Storage Era presents the most in-depth look at VMware's next-generation storage technology to help solutions architects and operational teams maximize quality storage design. Written by a double VMware Certified Design Expert, this book delves into the design factors and capabilities of Virtual SAN and Virtual Volumes to provide a uniquely detailed examination of the software-defined storage model. Storage-as-a-Service (STaaS) is discussed in terms of deployment through VMware technology, with insight into the provisioning of storage resources and operational management, while legacy storage and storage protocol concepts provide context and demonstrate how Virtual SAN and Virtual Volumes are meeting traditional challenges. The discussion on architecture emphasizes the economies of storage alongside specific design factors for next-generation VMware based storage solutions, and is followed by an

example in which a solution is created based on the preferred option identified from a selection of cross-site design options. Storage hardware lifecycle management is an ongoing challenge for IT organizations and service providers. VMware is addressing these challenges through the software-defined storage model and Virtual SAN and Virtual Volumes technologies; this book provides unprecedented detail and expert guidance on the future of storage. Understand the architectural design factors of VMware-based storage Learn best practices for Virtual SAN stretched architecture implementation Deploy STaaS through vRealize Automation and vRealize Orchestrator Meet traditional storage challenges with next-generation storage technology Virtual SAN and Virtual Volumes are leading the way in efficiency, automation, and simplification, while maintaining enterprise-class features and performance. As organizations around the world are looking to cut costs without sacrificing performance, availability, or scalability, VMware-based next-generation storage solutions are the ideal platform for tomorrow's virtual infrastructure. VMware Software-Defined Storage provides detailed, practical guidance on the model that is set to transform all aspects of vSphere data center storage.

VMware VRealize Automation Handbook IBM Redbooks Master vSphere automation with this comprehensive reference VMware vSphere PowerCLI Reference, Automating vSphere Administration, 2nd Edition is a one-stop solution for vSphere automation. Fully updated to align with the latest vSphere and PowerCLI release, this detailed guide shows you how to get the most out of PowerCLI's handy cmdlets using real-world examples and a practical, task-based approach. You'll learn how to store, access, update, back up, and secure massive amounts of data quickly through the power of virtualization automation, and you'll get acquainted with PowerCLI as you learn how to automate management, monitoring, and life-cycle operations for vSphere. Coverage includes areas like the PowerCLI SDK, SRM, vCOPS, and vCloud Air. Plus guidance toward scheduling and viewing automation, using DevOps methodology and structured testing and source control of your PowerCLI scripts. Clear language and

detailed explanations make this reference the manual you've been looking for. This book is your complete reference for managing vSphere in a Windows environment, with expert instruction and real-world application. Automate vCenter Server deployment and configuration Create and configure virtual machines, and utilize vApps Monitor, audit, and report the status of your vSphere environment Secure, back up, and restore your virtual machines Work with other vSphere components from your PowerCLI scripts Take control of your PowerCLI scripts through versioning and structured testing Don't spend another day slogging through routine systems management — automate it, with this invaluable guide.

Intelligent Automation with VMware John Wiley & Sons Your One-Stop Reference for VMware vSphere Automation If you manage vSphere in a Windows environment, automating routine tasks can save you time and increase efficiency. VMware vSphere PowerCLI is a set of pre-built commands based on Windows PowerShell that is designed to help you automate vSphere processes involving virtual machines, datacenters, storage, networks, and more. This detailed guide—using a practical, task-based approach and real-world examples—shows you how to get the most out of PowerCLI's handy cmdlets. Learn how to: Automate vCenter Server and ESX/ESX(i) Server deployment and configuration Create and configure virtual machines and use vApps Secure, back up, and restore your virtual machines Monitor, audit, and report the status of your vSphere environment Use the PowerCLI SDK, PowerWF Studio, and vEcoShell Schedule and view automation Add a GUI front end to your scripts *The Complete VMware vSphere Guide* VMware Press 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 VMware vSphere 6 Packt Publishing Ltd Learn how to work with the Automate feature of CloudForms, the powerful Red Hat cloud management platform that lets you administer your virtual infrastructure, including hybrid public and private clouds. This practical hands-on introduction shows you how to increase your operational efficiency by automating day-to-day tasks that now require manual input. Throughout the book, author Peter McGowan provides a combination of theoretical information and practical coding examples to help you learn the Automate object model. With this CloudForms feature, you can create auto-scalable cloud applications, eliminate manual decisions and operations when provisioning virtual machines and cloud instances, and manage your complete virtual machine lifecycle. In six parts, this book helps you: Learn the objects and concepts for developing automation scripts with CloudForms Automate Customize the steps and workflows involved in provisioning virtual machines Create and use service catalogs, items, dialogs, objects, bundles, and hierarchies Use CloudForm's updated workflow to retire and delete virtual machines and services Orchestrate and coordinate with external services as part of a workflow Explore distributed automation processing as well as argument passing and handling