

# N Automation 7 Vmware

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**Data Center Virtualization  
Certification: VCP6.5-DCV Exam Guide**  
- Andrea Mauro 2018-08-27  
Deploy and configure vSphere

infrastructure and learn to  
effectively create and administer  
vSphere virtual machines Key Features  
Implement advanced network

virtualization techniques Configure and administer vSphere high availability Enhance your data center virtualization skills with practice questions and mock tests Book Description This exam guide enables you to install, configure, and manage the vSphere 6.5 infrastructure in all its components: vCenter Server, ESXi hosts, and virtual machines, while helping you to prepare for the industry standard certification. This data center book will assist you in automating administration tasks and enhancing your environment's capabilities. You will begin with an introduction to all aspects related to security, networking, and storage in vSphere 6.5. Next, you will learn about resource management and understand how to back up and restore the vSphere 6.5 infrastructure. As

you advance, you will also cover troubleshooting, deployment, availability, and virtual machine management. This is followed by two mock tests that will test your knowledge and challenge your understanding of all the topics included in the exam. By the end of this book, you will not only have learned about virtualization and its techniques, but you'll also be prepared to pass the VCP6.5-DCV (2V0-622) exam. What you will learn Deploy and configure vSphere infrastructure Create and administer vSphere virtual machines Optimize, secure, and troubleshoot all vSphere components Implement vSphere HA on a vSAN cluster Understand how to back up and restore your vSphere 6.5 infrastructure Test your understanding of key concepts

required through sample questions Who this book is for If you are interested in achieving Data Center Virtualization certification, this is the book is for you. You will also benefit from this book if you are a system administrator or network engineer. Some prior knowledge of virtualization can assist you in understanding key concepts covered in the book.

*VMware NSX Micro-Segmentation ? Day 1*  
- Wade Holmes 2017-01-31

Micro-segmentation - Day 1 brings together the knowledge and guidance for planning, designing, and implementing a modern security architecture for the software-defined data center based on micro-segmentation. VMware NSX makes network micro-segmentation feasible for the first time. It enables

granular firewalling and security policy enforcement for every workload in the data center, independent of the network topology and complexity. Micro-segmentation with NSX already helped over a thousand organizations improve the security posture of their software-defined data center by fundamentally changing the way they approach security architecture. Micro-segmentation - Day 1 is your roadmap to simplify and enhance security within software-defined data centers running NSX. You will find insights and recommendations proven in the field for moving your organization from a perimeter-centric security posture to a micro-segmented architecture that provides enhanced security and visibility within your data center.

*Operationalizing VMware NSX* - Kevin

Lees 2017-08-25

**VMware vSphere For Dummies** - Daniel Mitchell 2011-02-09

A plain-English guide to the market-leading virtualization and cloud computing technology With virtualization, a single server can host dozens or hundreds of virtual machines running a variety of operating systems, and even hook them together in a virtual network or cloud infrastructure. This practical guide shows you how to create a virtual system using the VMware vSphere environment. You'll find all the information you need to understand, design, and deploy one—without getting overwhelmed with technical detail. And once you're up and running, this book is the perfect reference for maintenance and

troubleshooting issues. Introduces you to virtualization and VMware's virtualization/cloud computing technology, the most recent version is VMware vSphere Shows you how to design a vSphere environment Covers installation, deployment, management, maintenance, and troubleshooting Provides what IT managers and system administrators need to roll out their first virtualized or cloud infrastructure, or to get up to speed on VMware's technology Get up and running on the cloud with VMware vSphere For Dummies!

**VMware vRealize Orchestrator Cookbook** - Daniel Langenhan 2016-11-11  
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 your Orchestrator installation, and will be able to develop complex workflows and create your own highly integrated automations of vRealize environments. Style and approach This practical guide provides exciting and practical recipes on VMware vRealize Orchestrator 7 for those who are waiting to automate their infrastructure.

[VMware Certified Professional Data Center Virtualization on vSphere 6.7 Study Guide](#) - Jon Hall 2020-08-19 Master vSphere 6 virtualization with hands-on practice and bonus preview exams VCP6-DCV: VMware Certified Professional-Data Center Virtualization on vSphere 6 Study Guide is your ultimate guide to preparing for exam 2V0-621. This

Study Guide provides 100% coverage of all exam objectives and offers a unique set of study tools including assessment tests, objective map, real-world scenarios, hands-on exercises, and much more so you can be confident come exam day. You will also receive access to the superior Sybex interactive online learning environment that provides additional study tools including electronic flashcards and bonus practice exams. More than just a study guide, this book bridges the gap between exam prep and real-world on the job skills by focusing on the key information VMware professionals need to do the job. You'll master the vCenter Server and ESXi from planning and installation through upgrade and security, and develop an in-depth understanding of vSphere networking

and storage, vApp deployment, service level establishment, troubleshooting, monitoring implementation, and so much more. Study 100% of exam 2V0-621 objectives Practice your skills with hands-on exercises Gain professional insight from real-world scenarios Test your understanding with review questions, practice tests, and more Virtualization is the number-one IT priority for organizations across public and private sectors, and VMware is the dominant force in the virtualization space. The VCP6-DCV certification gives you a highly marketable credential in terms of employment, but first you must pass this challenging exam. VCP6-DCV gives you the power of Sybex exam prep and the skills you need to excel at the job.

VMware Certified Professional 6 Exam

Guide (Exam #2V0-642) - Rakesh Kumar Verma 2022-06-20

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 Environmen 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  
VMware NSX Cookbook - Tony Sangha

2018-03-29

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.

**VMware vSphere 6.x Datacenter Design Cookbook** - Hersey Cartwright  
2016-06-28

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.

**Mastering VMware vSphere 6** - Nick

Marshall 2015-04-06

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.

**OpenStack Trove Essentials** - Alok Shrivastwa 2016-03-30  
Build your own cloud based Database

as a Service using OpenStack Trove About This Book Familiarize yourself with the concept of Database as a Service and make your existing system scalable and efficient with OpenStack Trove Minimize the administrative tasks and complexities of managing your cloud infrastructure This is a fast-paced guide to datastore management on the OpenStack platform using OpenStack Trove Who This Book Is For If you are a DBA / system administrator / architect, or a student who wants to build a Database as a Service based on OpenStack, this book is for you. You should have a basic knowledge of OpenStack components, RDBMS/NoSQL, IaaS, and cloud computing. What You Will Learn Get to grips with the basics of OpenStack and the prerequisites to install Trove Understand the

expectations of DBaaS and how Trove can help you achieve them Set up a basic installation of DevStack (Development Stack) in a virtual box Install Trove and utilize its configuration groups to manage and tune databases Use Image builder to create guest images for Trove Utilize Trove to provision your first database instance Back up and restore your databases with the help of Trove In Detail OpenStack has become an extremely popular solution to build public and private clouds with. Database as a Service (DBaaS) enables the delivery of more agile database services at lower costs. Some other benefits of DBaaS are secure database deployments and compliance to standards and best practices. Trove is a DBaaS built on OpenStack and is becoming more popular by the day.

Since Trove is one of the most recent projects of OpenStack, DBAs and system administrators can find it difficult to set up and run a DBaaS using OpenStack Trove. This book helps DBAs make that step. We start by introducing you to the concepts of DBaaS and how is it implemented using OpenStack Trove. Following this, we look at implementing OpenStack and deploying Trove. Moving on, you will learn to create guest images to be used with Trove. We then look at how to provision databases in self-service mode, and how to perform administration tasks such as backup and recovery, and fine-tuning databases. At the end of the book, we will examine some advanced features of Trove such as replication. Style and approach This fast-paced, step-by-step guide introduces you to

DBaaS, OpenStack Trove, and its components, leading you through building your own Cloud-based DBaaS. Using the DevStack deployment method, you will spend less time on installing OpenStack so you can devote more time to learning how to provision and manage databases in a DBaaS environment.

*Learning VMware vRealize Automation* - Sriram Rajendran 2016-02-03

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.

*IT Modernization using Catalogic ECX Copy Data Management and IBM Spectrum Storage* - Jon Tate 2016-04-05

Data is the currency of the new economy, and organizations are increasingly tasked with finding better ways to protect, recover, access, share, and use data. Traditional storage technologies are

being stretched to the breaking point. This challenge is not because of storage hardware performance, but because management tools and techniques have not kept pace with new requirements. Primary data growth rates of 35% to 50% annually only amplify the problem. Organizations of all sizes find themselves needing to modernize their IT processes to enable critical new use cases such as storage self-service, Development and Operations (DevOps), and integration of data centers with the Cloud. They are equally challenged with improving management efficiencies for long established IT processes such as data protection, disaster recovery, reporting, and business analytics. Access to copies of data is the one common feature of all these use cases. However, the slow, manual

processes common to IT organizations, including a heavy reliance on labor-intensive scripting and disparate tool sets, are no longer able to deliver the speed and agility required in today's fast-paced world. Copy Data Management (CDM) is an IT modernization technology that focuses on using existing data in a manner that is efficient, automated, scalable, and easy to use, delivering the data access that is urgently needed to meet the new use cases. Catalogic ECX, with IBM® storage, provides in-place copy data management that modernizes IT processes, enables key use cases, and does it all within existing infrastructure. This IBM Redbooks® publication shows how Catalogic Software and IBM have partnered together to create an integrated

solution that addresses today's IT environment.

### **VMware vSphere PowerCLI Reference -**

Luc Dekens 2011-04-12

"VMware vSphere PowerCLI is a must-have tool for any administrator managing VMware vSphere in a Windows environment. Having to repeat vSphere administrative tasks can be time consuming and error-prone, but PowerCLI--created specifically for Windows environments--allows VMware administrators to automate tasks. Written to the latest PowerCLI, this handy guide shows you step by step how to use the PowerCLI cmdlets for daily administration procedures and frequently performed tasks for VMware vSphere X. The reference is organized by vSphere tasks, providing a practical approach to accessing the information you need while you are on

the job. Supported by real world examples and no-nonsense instruction, coverage includes installation, configuration, and management of a vSphere environment, management of the virtual machine life-cycle, security, and monitoring and reporting."--

**VCAP5-DCA Official Cert Guide** - Steve Baca 2014-05-03

The VCAP5-DCA Official Cert Guide presents you with an organized test preparation routine through the use of proven series elements and techniques. "Do I Know This Already?" quizzes open each chapter and enable you to decide how much time you need to spend on each section. Exam topic lists make referencing easy. Chapter-ending "Review Tasks" help you drill on key concepts you must know thoroughly. The VCAP5-DCA Official

Cert Guide focuses specifically on the objectives for the VMware Certified Advanced Professional 5 – Data Center Administration. VMware Certified Instructors (VCI) Steve Baca and John Davis share preparation hints and test-taking tips, helping you identify areas of weakness and improve both your conceptual knowledge and hands-on skills. Material is presented in a concise manner, focusing on increasing your understanding and retention of exam topics. The VCAP5-DCA Official Cert Guide is part of a recommended learning path from VMware that includes simulation and hands-on training from authorized VMware instructors and self-study products from VMware Press. To find out more about instructor-led training, e-learning, and hands-on instruction

offered worldwide, please visit [www.vmware.com/training](http://www.vmware.com/training).

### **vSphere High Performance Cookbook -**

Kevin Elder 2017-06-30

Over 80 recipes to help you improve vSphere 6.5's performance and solve problems before they arise About This Book The practical recipes provide cost-effective and high performance for any application running in a virtual machine Contains best practices and troubleshooting techniques to resolve vSphere 6.5 performance issues Get a comprehensive coverage of performance issues and solutions including vCenter Server design and virtual machine and application tuning Who This Book Is For If you are a system administrator and are planning to deploy vSphere 6.5 in your organization and want to maximize its

performance, then this book is for you. Prior knowledge of the vSphere 6.5 concepts is essential. What You Will Learn Understand the VMM Scheduler, cache aware CPU Scheduler, NUMA aware CPU Scheduler, and more during the CPU Performance Design phase Get to know the virtual memory reclamation technique, host ballooning monitoring, and swapping activity Choose the right platform while designing your vCenter Server, redundant vCenter design, and vCenter SSO and its deployment Learn how to use various performance simulation tools Design VCSA Server Certificates to minimize security threats Use health check tools for storage and boost vSphere 6.5's performance with VAAI and VASA In Detail vSphere is a mission-critical piece of software for many businesses. It is a complex

tool, and incorrect design and deployment can create performance related issues that can negatively affect the business. This book is focused on solving these problems as well as providing best practices and performance-enhancing techniques. This edition is fully updated to include all the new features in version 6.5 as well as the latest tools and techniques to keep vSphere performing at its best. This book starts with interesting recipes, such as the interaction of vSphere 6.5 components with physical layers such as CPU, memory, and networking. Then we focus on DRS, resource control design, and vSphere cluster design. Next, you'll learn about storage performance design and how it works with VMware vSphere 6.5. Moving on, you will learn about the two types of

vCenter installation and the benefits of each. Lastly, the book covers performance tools that help you get the most out of your vSphere installation. By the end of this book, you will be able to identify, diagnose, and troubleshoot operational faults and critical performance issues in vSphere 6.5. Style and approach This cookbook is written in a practical, helpful style with numerous recipes focusing on answering and providing solutions to common and not-so-common performance issues and problems.

*Virtualizing Oracle Databases on VSphere* - Kannan Mani 2014

Annotation Thousands of organizations are virtualizing large-scale Oracle database systems. But, until now, reliable best practices have been hard to find, and database and

virtualization professionals have often brought differing and incompatible perspectives to the challenge. Now, there's a comprehensive best practice guide reflecting deep understanding of both Oracle and vSphere, and supported by extensive in-the-field experience with the full spectrum of applications and environments.

*The Complete VMware vSphere Guide*  
- Mike Brown 2019-11-29

Explore the benefits of VMware vSphere 6.7 to provide a powerful, flexible, and secure virtual infrastructure, and secure apps. Next, you'll pick up on how to enhance your infrastructure with high-performance storage access, such as remote direct memory access (RDMA) and Persistent Key Features Design, deploy and manage VMware vSphere

virtual data centers Implement monitoring and security of VMware workloads with ease Explore tips and techniques for designing a robust virtual infrastructure Book Description vSphere 6.7 is the latest release of VMware's industry-leading virtual cloud platform. By understanding how to manage, secure, and scale apps with vSphere 6.7, you can easily run even the most demanding of workloads. This Learning Path begins with an overview of the features of the vSphere 6.7 suite. You'll learn how to plan and design a virtual infrastructure. You'll also gain insights into best practices to efficiently configure, manage, and secure apps. Next, you'll pick up on how to enhance your infrastructure with high-performance storage access, such as remote direct memory access

(RDMA) and Persistent memory. The book will even guide you in securing your network with security features, such as encrypted vMotion and VM-level encryption. Finally, by learning how to apply Proactive High Availability and Predictive Distributed Resource Scheduler (DRS), you'll be able to achieve enhanced computing, storage, network, and management capabilities for your virtual data center. By the end of this Learning Path, you'll be able to build your own VMware vSphere lab that can run high workloads. This Learning Path includes content from the following Packt products: VMware vSphere 6.7 Data Center Design Cookbook - Third Edition by Mike Brown and Hersey Cartwright Mastering VMware vSphere 6.7 - Second Edition by Martin Gavanda, Andrea Mauro,

Karel Novak, and Paolo Valsecchi What you will learn Understand how to patch, upgrade, and manage a virtual environment with vSphere 6.7 Identify key factors related to a vSphere design Mitigate security risks and meet compliance requirements in a vSphere design Create a vSphere conceptual design by identifying technical and business requirements Map the logical resource design into the physical vSphere design Create professional vSphere design documentation Who this book is for This Learning Path is for administrators, infrastructure engineers, consultants, and architects who want to design virtualized data center environments using VMware vSphere 6.x (or previous versions of vSphere and the supporting components). Basic

knowledge of VMware vSphere is required to get the most out of this Learning Path.

**Mastering VMware vSphere 6.7** - Martin Gavanda 2019-03-07

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.

*IBM System Storage N series with VMware vSphere 5* - Roland Tretau  
2013-02-28

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.

#### Mastering CloudForms Automation -

Peter McGowan 2016-08-22

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

**Network Programmability and Automation**

- Jason Edelman 2018-02-02  
"This practical guide shows network engineers how to use a range of technologies and tools--including Linux, Python, JSON, and XML--to automate their systems through code. [This book] will help you simplify tasks involved in configuring, managing, and operating network equipment, topologies, services, and connectivity."--Page 4 of cover  
*How to Cheat at Configuring VmWare*

*ESX Server* - David Rule 2011-04-18  
A virtual evolution in IT shops large and small has begun. VMware's ESX Server is the enterprise tool to free your infrastructure from its physical limitations providing the great transformation into a virtual environment--this book shows you how. Use Syngress' proven "How to Cheat methodology to configure and build VMware's ESX Server version 3. This clear, concise guide provides all the information you need to become a virtual whiz! This book will detail the default and custom installation of VMware's ESX server as well as basic and advanced virtual machine configurations. It will then walk the reader through post installation configurations including installation and configuration of VirtualCenter. From here, readers will learn to

efficiently create and deploy virtual machine templates. Best practices for securing and backing up your virtual environment are also provided. The book concludes with a series of handy, time-saving command and configuration for: bash shell keystrokes, Linux commands, configuration files, common/proc files, VMware ESX commands, and troubleshooting.

- Reap the Benefits of Server Virtualization Realize improved ROI, ensure efficient mergers and acquisitions, and reduce compliance risk exposure through server virtualization and consolidation.
- Build a Virtual Machine Create a Gold Master and use your VMlibrary to leverage the power and flexibility of VMware.
- Manage Your Virtual Infrastructure Use VMware tools to partition physical

servers and manage virtual machines.

- Set Up Scripted Installation See how a scripted installation method can be a fast and efficient way to provision ESX hosts.
- Master ESX Native Tools Use tools like Esxtop to diagnose performance issues and vmkfstools to import and export
- Install and Use VMware Scripting APIs Develop programs to help automate and ease administration—even with a limited background in scripting or programming.
- Learn the Fundamentals of a VM Backup VMware ESX ships with three scripts that work together to create a backup and restore system: vmsnap.pl, vmsnap\_all.pl, and vmres.pl.
- Extend a Cloned Windows VM's Root Partition Use Microsoft's Sysprep utility to extend a newly deployed virtual machine's root partition from the original clone

size to a larger size.

### **Zero Trust Networks with VMware NSX -**

Sreejith Keeriyattil 2019-12-23

Secure your VMware infrastructure against distrusted networks using VMware NSX. This book shows you why current security firewall architecture cannot protect against new threats to your network and how to build a secure architecture for your data center. Author Sreerjith Keeriyattil teaches you how micro-segmentation can be used to protect east-west traffic. Insight is provided into working with Service Composer and using NSX REST API to automate firewalls. You will analyze flow and security threats to monitor firewalls using VMware Log and see how Packet Flow works with VMware NSX micro-segmentation. The information presented in Zero Trust Networks with

VMware NSX allows you to study numerous attack scenarios and strategies to stop these attacks, and know how VMware Air Watch can further improve your architecture. What You Will Learn Know how micro-segmentation works and its benefits Implement VMware-distributed firewalls Automate security policies Integrate IPS/IDS with VMware NSX Analyze your firewall's configurations, rules, and policies Who This Book Is For Experienced VMware administrators and security administrators who have an understanding of data center architecture and operations [IBM System Storage N series Reference Architecture for Virtualized Environments](#) - Roland Tretau 2014-06-13 This IBM® Redbooks® publication provides deployment guidelines,

workload estimates, and preferred practices for clients who want a proven IBM technology stack for virtualized VMware and Microsoft environments. The result is a Reference Architecture for Virtualized Environments (RAVE) that uses VMware vSphere or Microsoft Hypervisor, IBM System x® or IBM BladeCenter® server, IBM System Networking, and IBM System Storage® N series with Clustered Data ONTAP as a storage foundation. The reference architecture can be used as a foundation to create dynamic cloud solutions and make full use of underlying storage features and functions. This book provides a blueprint that illustrates how clients can create a virtualized infrastructure and storage cloud to help address current and future data

storage business requirements. It explores the solutions that IBM offers to create a storage cloud solution addressing client needs. This book also shows how the Reference Architecture for Virtualized Environments and the extensive experience of IBM in cloud computing, services, proven technologies, and products support a Smart Storage Cloud solution that is designed for your storage optimization efforts. This book is for anyone who wants to learn how to successfully deploy a virtualized environment. It is also written for anyone who wants to understand how IBM addresses data storage and compute challenges with IBM System Storage N series solutions with IBM servers and networking solutions. This book is suitable for IT

architects, business partners, IBM clients, storage solution integrators, and IBM sales representatives.

*Implementing VMware Horizon 7.7* -

Jason Ventresco 2019-01-15

Effectively implement features and components for any computing environment Key Features Explore the latest features of VMware Horizon 7.7 Virtualize your desktop infrastructure using new features introduced in Horizon Implement App Volumes and User Environment Manager in your infrastructure Book

Description This third edition of *Implementing VMware Horizon 7.7* has been updated to get you up to speed with VMware Horizon 7.7 by showing you how to use its key features and deploying an end-user computing infrastructure for your own

organization. The book begins by guiding you on how to deploy all the core requirements for a VMware Horizon infrastructure. It then moves on to show you how to provision and administer end-user computing resources using VMware Horizon. You'll not only be able to deploy the core VMware Horizon features, but you'll also be able to implement new features, such as the Just-in-Time Management Platform (JMP) and the Horizon Console. You'll also focus on the latest features and components of the Horizon platform and learn when and how they are used. By the end of the book, you will have developed a solid understanding of how your organization can benefit from the capabilities VMware Horizon offers and how each of its components is implemented. What you will learn Work

with the different products that make up VMware Horizon Implement a multi-site VMware Horizon Pod using the Cloud Pod Architecture feature Deploy and configure VMware Horizon's optional components Implement and maintain Microsoft RDSH, Horizon Linux, and Windows Desktop Pools and RDSH Application Pools Configure and manage Horizon remotely using PowerCLI Learn about the Microsoft Windows Group Policy templates for Horizon Understand how to manage the SSL certificates for each of the VMware Horizon components Who this book is for If you're a system administrator, solutions architect, or desktop engineer looking to level up your skills working with VMware's Horizon ecosystem and want to build a successful deployment strategy for desktops and applications, this book

is for you.

*Mastering VMware vSphere 6.7* - Nick Marshall 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 5.5* - Scott

Lowe 2013-10-16  
The 2013 edition of the bestselling vSphere book on the market Virtualization remains the hottest trend in the IT world, and VMware vSphere is the industry's most widely deployed virtualization solution. The demand for IT professionals skilled in virtualization and cloud-related technologies is great and expected to keep growing. This comprehensive Sybex guide covers all the features and capabilities of VMware vSphere, showing administrators step by step how to install, configure, operate, manage, and secure it. This perfect blend of hands-on instruction, conceptual explanation, and practical application is reinforced with real-world examples. Led by Scott Lowe and Nick Marshall, both VMware vExperts, the author team provides expertise

that will prepare IT professionals to excel in using this virtualization technology. Virtualization is seen as a "best practice" for high availability and disaster recovery solutions, as well as for applications such as Exchange Server and SharePoint IDC estimates that there are as many as 7 million jobs available worldwide in virtualization and cloud technology Provides hands-on instruction in all the latest features and capabilities of VMware vSphere, with both conceptual explanations and practical applications Author team is lead by Scott Lowe and Nick Marshall, well-known VMware experts and popular bloggers Mastering VMware vSphere provides what every virtualization professional needs to know.

**VMware Cookbook** - Ryan Troy

2009-10-23

If you want to gain insight into the real-world uses of VMware ESX and ESXi, this book provides scores of step-by-step solutions for working with these products in a wide range of network environments. You'll not only learn the basics -- how to pool resources from hardware servers, computer clusters, networks, and storage, and then distribute them among virtual machines -- but also the stumbling blocks you'll encounter when you monitor systems, troubleshoot problems, and deal with security. In addition to the recipes, VMware Cookbook includes background information to help you determine your virtualization needs. You'll come to view VMware as part of the real environment, alongside operating systems, storage, and logical and

physical network components. Follow best practices for installing VMware in your environment Discover how to secure and monitor your network Understand disk storage implementation and configuration Learn resource management using the distributed resource scheduler, shares, and resource pools Configure logical and physical networks Learn how to clone and migrate servers Gain valuable tips for configuration and fine-tuning Many resources can teach you about virtualization and the basics of VMware. This book is for system administrators who are ready to go beyond an introduction.

VMware Infrastructure 3 For Dummies - William Lowe 2010-12-29

VMware Infrastructure 3 for Dummies will help you understand, design, and deploy a reliable and fault tolerant

Virtual Infrastructure 3 environment. Virtualization can save your business a lot of money! You'll find an introduction to the technology and learn from the key topics covered in each chapter. You will have enough information to design and deploy your first system without being overwhelmed by extensive technical details. You can also use this book as a reference for maintenance and troubleshooting. You will find out what you need to do before you virtualize your machines. Learn about ESX servers, how to install them and their anatomy. Hook up your ESX servers with storage and data networks and understand what you need to know about networking and external storage. You'll be able to make everything fault tolerant with cluster technology. Find out how to:

Make the most of VMware Virtual Infrastructure 3 Design and deploy your system Handle installation, configuration, and troubleshooting Virtualize servers, storage and networking Discover how to assure fault tolerance with clusters and the VirtualCenter database Use resource pools, set them up, and secure them Explore new options for disaster preparedness, including a virtual consolidated backup Complete with lists of VMware products, the world of virtual appliances, and more information about VI3, VMware Infrastructure 3 For Dummies is your one-stop guide to virtualizing your machines.

Mastering VMware vSphere 6.5 - Andrea Mauro 2017-12-15

Deliver great business value by adopting the virtualization platform

VMware vSphere 6.5, from the design to the deployment About This Book This new edition is based on vSphere 6.5 and has described new features in different areas, including management, security, scalability, availability and so on. Design, deploy and manage VMware datacenters Implement monitoring and security of VMware workloads with ease. Who This Book Is For If you are an administrator, infrastructure engineer, IT architect, or an IT consultant and analyst who has basic knowledge of VMware vSphere and now wants to master it, then this book is for you. What You Will Learn Get a deep understanding of vSphere 6.5 functionalities Design and plan a virtualization environment based on vSphere 6.5 Manage and administer a vSphere 6.5 environment and resources

Get tips for the VCP6-DCV and VCIX6-DCV exams (along with use of the vSphere 6 documentation) Implement different migration techniques to move your workload across different environments. Save your configuration, data and workload from your virtual infrastructure. In Detail VMware vSphere 6.5 provides a powerful, flexible and secure foundation for next-generation applications which helps you create an effective digital transformation. This book will be based on VMware vSphere 6.5 which empowers you to virtualize any complex application with ease. You'll begin by getting an overview of all the products, solutions and features of the vSphere 6.5 suite, comparing the evolutions with the previous releases. Next ,you'll design and plan a

virtualization infrastructure to drive planning and performance analysis. Following this , you will be proceeding with workflow and installation of components. New network trends are also covered which will help you in optimally designing the vSphere environment. You will also learn the practices and procedures involved in configuring and managing virtual machines in a vSphere infrastructure. With vSphere 6.5, you'll make use of significantly more powerful capabilities for patching, upgrading, and managing the configuration of the virtual environment. Next we'll focus on specific availability and resiliency solutions in vSphere. Towards the end of the book you will get information on how to save your configuration, data and workload from your virtual

infrastructure. By the end of the book you'll learn about VMware vSphere 6.5 right from design to deployment and management. Style and Approach This book acts as a reference guide providing real-world scenarios and a possible baseline for each virtualization project based on VMware vSphere.

### **VMware Cross-Cloud Architecture -**

Ajit Pratap Kundan 2018-03-30

Enhance your virtualization skills by mastering storage and network virtualization with automation across different Clouds Key Features Migrate and build your applications in Hybrid Cloud with VMware Cross Cloud components and services Gain in-depth configuration insights of VMware Cross Cloud architecture Learn to migrate applications from VMware to AWS and IBM Cloud Book Description

Over the past two decades, VMware vSphere has been known as the most trusted and reliable virtualization platform. VMware Cross-Cloud Architecture shows you how to design and configure Cross Cloud Architecture by using VMware Cloud Foundation and vRealize Suite with various use cases across private, public, and hybrid Cloud. This book takes you through everything from a basic understanding of virtualization to advanced aspects of storage and network virtualization, clustering, automation, and management. This book will be your guide to designing all aspects of Cloud. We start with the challenges faced by a traditional data center, define problem statements for you, and then brief you on respective solutions. Moving on, all kinds of virtualization and

Cloud offerings from AWS and IBM Soft Layer are introduced and discussed in detail. Then, you'll learn how to design IT infrastructures for new and existing applications with a combination of Cloud Foundation, vRealize Suite, and vSphere enabled with VSAN and NSX. Furthermore, you'll learn how to design and configure high availability, disaster recovery, and apply an appropriate compliance matrix. Toward the end of the book, you will learn how to calculate the TCO/ROI, along with the VMware products packaging and licensing in detail. What you will learn Install and configure the Cloud foundation with Cross-Cloud services Configure vSphere high availability with the vCenter redundancy setup Architect and configure VMware with AWS Cloud Deploy VMware components in

IBM Soft Layer Extend your DR setup with VMware to consume DRaaS Design and configure software-defined networking Implement compliance regulations to fix violations Who this book is for This book is for administrators, Cloud architects and network engineers who want to globalize their infrastructure using VMware and AWS services. An initial setup of workloads and data center is beneficial.

*Exam Ref 70-533 Implementing Microsoft Azure Infrastructure Solutions* - Michael Washam 2018-01-23 Prepare for the newest versions of Microsoft Exam 70-533—and help demonstrate your real-world mastery of implementing Microsoft Azure Infrastructure as a Service (IaaS). Designed for experienced IT professionals ready to advance their

status, Exam Ref focuses on the critical thinking and decision-making acumen needed for success at the MCSA level. Focus on the expertise measured by these objectives: Design and implement Azure App Service Apps Create and manage compute resources, and implement containers Design and implement a storage strategy, including storage encryption Implement virtual networks, including new techniques for hybrid connections Design and deploy ARM Templates Manage Azure security and Recovery Services Manage Azure operations, including automation and data analysis Manage identities with Azure AD Connect Health, Azure AD Domain Services, and Azure AD single sign on This Microsoft Exam Ref: Organizes its coverage by exam objectives Features strategic, what-if scenarios

to challenge you Assumes you are an IT professional with experience implementing and monitoring cloud and hybrid solutions and/or supporting application lifecycle management This book covers the 533 objectives as of December 2017. If there are updates for this book, you will find them at <https://aka.ms/examref5332E/errata>. About the Exam Exam 70-533 focuses on skills and knowledge for provisioning and managing services in Microsoft Azure, including: implementing infrastructure components such as virtual networks, virtual machines, containers, web and mobile apps, and storage; planning and managing Azure AD, and configuring Azure AD integration with on-premises Active Directory domains. About Microsoft Certification Passing this exam helps qualify you for MCSA: Cloud Platform

Microsoft Certified Solutions Associate certification, demonstrating your expertise in applying Microsoft cloud technologies to reduce costs and deliver value. To earn this certification, you must also pass any one of the following exams: 70-532 Developing Microsoft Azure Solutions, or 70-534 Architecting Microsoft Azure Solutions, or 70-535, Architecting Microsoft Azure Solutions, or 70-537: Configuring and Operating a Hybrid Cloud with Microsoft Azure Stack.

### **Intelligent Automation with VMware** -

Ajit Pratap Kundan 2019-03-30

Use self-driven data centers to reduce management complexity by deploying Infrastructure as Code to gain value from investments. Key FeaturesAdd smart capabilities in VMware Workspace ONE to deliver

customer insights and improve overall securityOptimize your HPC and big data infrastructure with the help of machine learningAutomate your VMware data center operations with machine learningBook Description This book presents an introductory perspective on how machine learning plays an important role in a VMware environment. It offers a basic understanding of how to leverage machine learning primitives, along with a deeper look into integration with the VMware tools used for automation today. This book begins by highlighting how VMware addresses business issues related to its workforce, customers, and partners with emerging technologies such as machine learning to create new, intelligence-driven, end user experiences. You will learn how to

apply machine learning techniques incorporated in VMware solutions for data center operations. You will go through management toolsets with a focus on machine learning techniques. At the end of the book, you will learn how the new vSphere Scale-Out edition can be used to ensure that HPC, big data performance, and other requirements can be met (either through development or by fine-tuning guidelines) with mainstream products. What you will learnOrchestrate on-demand deployments based on defined policiesAutomate away common problems and make life easier by reducing errors Deliver services to end users rather than to virtual machinesReduce rework in a multi-layered scalable manner in any cloudExplore the centralized life cycle management of hybrid cloudsUse common code so you

can run it across any cloud Who this book is for This book is intended for those planning, designing, and implementing the virtualization/cloud components of the Software-Defined Data Center foundational infrastructure. It helps users to put intelligence in their automation tasks to get self driving data center. It is assumed that the reader has knowledge of, and some familiarity with, virtualization concepts and related topics, including storage, security, and networking.

**PowerShell for Sysadmins** - Adam Bertram 2020-02-04

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 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 environment with PowerShell for Sysadmins and make everyone happy. Covers Windows PowerShell v5.1 **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. *VMware vSphere 6.7 Data Center Design Cookbook* - Mike Brown 2019-03-28 Design a virtualized data center with VMware vSphere 6.7 Key Features Get the first book on the market that helps you design a virtualized data center with VMware vSphere 6.7 Learn how to create professional vSphere design documentation to ensure a successful implementation A practical guide that will help you apply infrastructure design principles to vSphere design Book Description 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. This book uses proven infrastructure design principles and applies them to VMware vSphere 6.7 virtual data center design through short and focused recipes on each design aspect. The second edition of this book focused on vSphere 6.0. vSphere features released since then necessitate an updated design guide, which includes recipes for upgrading to 6.7, vCenter HA; operational improvements; cutting-edge, high-performance storage access such as RDMA and Pmem; security features such as encrypted vMotion and VM-level encryption; Proactive HA; HA Orchestrated Restart; Predictive DRS; and more. By the end of the book, you

will be able to achieve enhanced compute, storage, network, and management capabilities for your virtual data center. What you will learn

Identify key factors related to a vSphere design

Mitigate security risks and meet compliance requirements in a vSphere design

Create a vSphere conceptual design by identifying technical and business requirements

Design for performance, availability, recoverability, manageability, and security

Map the logical resource design into the physical vSphere design

Create professional vSphere design documentation

Who this book is for

If you are an administrator or consultant interested in designing virtualized data center environments using VMware vSphere 6.x (or previous versions of vSphere) and the

supporting components), this book is for you.

VMware NSX Automation Fundamentals -  
Thiago Koga 2018-04-16

**Mastering vRealize Automation 7.1** -  
Guido Soeldner 2016-10-24

Master your cloud environment with the ultimate vRealize Automation guide. Mastering vRealize Automation 7.1 is the fully updated edition of the comprehensive guide to VMware's cloud management platform solution. With extensive coverage of the vRealize Automation platform, this book acts as an informative guide and valuable reference. Step-by-step instruction walks you through design, installation, configuration, operation, extensibility, and much more. Written by certified VMware vExperts, this guide provides hands-

on instruction and detailed conceptual explanations, anchored by practical applications and real-world examples. This book is the ultimate guide to vRealize Automation, helping administrators, architects and developers master their virtual environment. Learn to:

- \* Design, install, configure, and manage a vRealize Automation cloud environment
- \* How to use and design blueprints
- \* Integrate NSX to provide automated network isolation and micro-segmentation
- \* Manage resource allocation and utilization to meet application needs
- \* Monitor infrastructure performance and availability with vRealize Operations and Log Insight
- \* Use vRealize Orchestrator to automate and integrate third-party products

Mastering vRealize Automation

7 is what you need to stay up-to-date on VMware's industry-leading software for building up a cloud management platform.

### **Scripting VMware Power Tools:**

**Automating Virtual Infrastructure Administration** - Al Muller 2006-12-27  
Describes scripting techniques that use both ESX and Linux commands to manage a virtual infrastructure.