N Automation 7 Vmware

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.

VMware NSX Automation FundamentalsVMware vRealize Orchestrator CookbookPackt Publishing Ltd

Effectively implement features and components for any computing environment Key FeaturesExplore the latest features of VMware Horizon 7.7Virtualize your desktop infrastructure using new features introduced in HorizonImplement App Volumes and User Environment Manager in your infrastructureBook 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 learnWork with the different products that make up VMware HorizonImplement a multi-site VMware Horizon Pod using the Cloud Pod Architecture featureDeploy and configure VMware Horizon's optional componentsImplement and maintain Microsoft RDSH, Horizon Linux, and Windows Desktop Pools and RDSH Application PoolsConfigure and manage Horizon remotely using PowerCLILearn about the Microsoft Windows Group Policy templates for HorizonUnderstand how to manage the SSL certificates for each of the VMware Horizon componentsWho 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.

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.

IBM System Storage N series with VMware vSphere 5
Manage and deploy the end-user computing infrastructure for your organization, 3rd Edition
Automating VSphere Administration
Design a virtualized data center with VMware vSphere 6.7
VMware Certified Professional Data Center Virtualization on vSphere 6.7 Study Guide
Mastering VMware vSphere 6.7

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.
Master your cloud environment with the ultimate vRealize Automation guideMastering 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 productsMastering 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.

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. 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.
VCP VMware Certified Professional on vSphere 4 Review Guide
Mastering CloudForms Automation

Automating vSphere with VMware vCenter Orchestrator
VMware VSphere PowerCLI Reference
VMware vSphere 6.x Datacenter Design Cookbook

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.

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. 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. 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.

An Essential Guide for Cloud Administrators

Exam Ref 70-533 Implementing Microsoft Azure Infrastructure Solutions

Over 70 recipes to master the network virtualization skills to implement, validate, operate, upgrade, and automate VMware NSX for vSphere

Implementing VMware Horizon 7.7

VMware Certified Advanced Professional 5- Data Center Administration

Implementing Cloud Management in the Enterprise Environment

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. 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

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.

Your One-Stop Reference for VMware vSphere Automation If you manage vSphere in a Windows environment, automatingroutine tasks can save you time and increase efficiency. VMwarevSphere PowerCLI is a set of pre-built commands based on WindowsPowerShell that is designed to help you automate vSphere processesinvolving virtual machines, datacenters, storage, networks, andmore. This detailed guide—using a practical, task-basedapproach and real-

world examples—shows you how to get themost out of PowerCLI's handy cmdlets. Learn how to: Automate vCenter Server and ESX/ESX(i) Server deployment andconfiguration Create and configure virtual machines and use vApps Secure, back up, and restore your virtual machines Monitor, audit, and report the status of your vSphereenvironment Use the PowerCLI SDK, PowerWF Studio, and vEcoShell Schedule and view automation Add a GUI front end to your scripts

VMware vSphere For Dummies

VMware vRealize Orchestrator Cookbook

VMware NSX Cookbook

Learning PowerCLI

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

Building VMware Software-Defined Data Centers

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 2VO-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.

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.

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!

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.

Apply machine learning techniques to VMware virtualization and networking
A Real-World Guide to Effective VMware Use
Mastering VMware vSphere 5.5
Virtualizing Oracle Databases on VSphere
Mastering VMware vSphere 6
VMware NSX for Disaster Recovery - Day 1

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

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.

Like sysadmins before them, network engineers are finding that they cannot do their work manually anymore. As the field faces new protocols, technologies, delivery models, and a pressing need for businesses to be more agile and flexible, network automation is becoming essential. 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. Network programming and automation will help you simplify tasks involved in configuring, managing, and operating network equipment, topologies, services, and connectivity. Through the course of the book, you'll learn the basic skills and tools you need to make this critical transition. This book covers: Python programming basics: data types, conditionals, loops, functions, classes, and modules Linux fundamentals to provide the foundation you need on your network automation journey Data formats and models: JSON, XML, YAML, and YANG for networking Jinja templating and its applicability for creating network device configurations The role of application programming interfaces (APIs) in network automation Source control with Git to manage code changes during the automation process How Ansible, Salt, and StackStorm open source automation tools can be used to automate network devices Key tools and technologies required for a Continuous Integration (CI) pipeline in network operations

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.

Learning VMware vRealize Automation

Mastering VMware vSphere 6.5

Exam 2V0-21.19

Over 100 practical recipes to help you design a powerful virtual infrastructure based on vSphere 6.7, 3rd Edition

VMware vSphere 6.7 Data Center Design Cookbook

How to Cheat at Configuring VmWare ESX Server

If you are a VMware administrator who is interested in automating your infrastructure, this book is for you. An understanding of basic programming concepts is advised. No previous knowledge of Orchestrator is required, although some previous knowledge of it will allow you to get started more easily.

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.

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.
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 FeaturesDesign, deploy and manage VMware vSphere
virtual data centersImplement monitoring and security of VMware
workloads with easeExplore tips and techniques for designing a robust
virtual infrastructureBook 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 CartwrightMastering VMware vSphere 6.7 - Second Edition by Martin Gavanda, Andrea Mauro, Karel Novak, and Paolo ValsecchiWhat you will learnUnderstand how to patch, upgrade, and manage a virtual environment with vSphere 6.7Identify key factors related to a vSphere designMitigate security risks and meet compliance requirements in a vSphere designCreate a vSphere conceptual design by identifying technical and business requirementsMap the logical resource design into the physical vSphere designCreate professional vSphere design documentationWho 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.
Network Programmability and Automation
Configuring VMware Virtual Volumes for Systems Powered by IBM Spectrum Virtualize
Skills for the Next-Generation Network Engineer
VMware NSX Automation Fundamentals
IT Modernization using Catalogic ECX Copy Data Management and IBM Spectrum Storage
VMware Cookbook

Design a virtualized data center with VMware vSphere 6.7 Key FeaturesGet the first book on the market that helps you design a virtualized data center with VMware vSphere 6.7Learn how to create professional vSphere design documentation to ensure a successful implementationA practical guide that will help you apply infrastructure design principles to vSphere designBook 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 learnIdentify key factors related to a vSphere designMitigate security risks and meet compliance requirements in a vSphere designCreate a vSphere conceptual design by identifying technical and business requirementsDesign for performance, availability, recoverability, manageability, and securityMap the logical resource design into the physical vSphere designCreate professional vSphere design documentationWho 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.

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
IBM® Spectrum Virtualize and VMware's Virtual Volumes (VVols) are paving the way toward a true IBM Software Defined Environment (SDE). IBM SpectrumTM Virtualize is at the core of software-defined storage. The addition of VVols enables a fundamentally more efficient operational model for storage in virtualized environments, centering it around the virtual machine (VM) rather than the physical infrastructure. This IBM Redbooks® publication provides an overview of the VVols management framework and its implementation on storage systems managed by IBM Spectrum VirtualizeTM..
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.

Intelligent Automation with VMware

vSphere High Performance Cookbook

(Exam VCP-41O)

VCAP5-DCA Official Cert Guide

Leverage the power of vSphere for effective virtualization, administration, management and monitoring of data centers

Operationalizing VMware NSX

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.

Unleash the benefits of VMware vSphere 6.7 to provide a powerful, flexible and secure digital infrastructure Key FeaturesDeep dive into areas like management, security, scalability, availability and more with vSphere 6.7Design, deploy and manage VMware vSphere virtual datacentersImplement monitoring and security of VMware workloads with easeBook 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 learnExplore the immense functionality of vSphere 6.7Design, manage and administer a virtualization environmentGet tips for the VCP6-DCV and VCIX6-DCV examsUnderstand how to implement different migration techniques across different environmentsExplore vSphere 6.7s

powerful capabilities for patching, upgrading and managing the configuration of virtual environments.Understand core vSphere componentsMaster resource management, disaster recovery, troubleshooting, monitoring and securityWho this book is for This book is for Administrators, Infrastructure Engineers, Architects, and Consultants with basic knowledge of VMware vSphere. 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.

Effectively deploy, manage, and monitor your virtual datacenter with VMware vSphere 6.7, 2nd Edition

Comprehensive guide right from basics to advanced VMware Network Virtualization concepts (English Edition)

VMware Cross-Cloud Architecture

Mastering VRealize Automation 7. 1

Automate and orchestrate your Software-Defined Data Center on AWS

The The Complete VMware vSphere Guide