

Vmware 51 Administration Guide

Networking for VMware Administrators
Virtualizing Oracle Databases on
vSphere
VMware VI and vSphere SDK
VCA-DCV VMware Certified Associate on
vSphere Study Guide
IBM FlashSystem V9000 and VMware Best Practices
Guide
Configuring VMware Virtual Volumes for Systems Powered by IBM Spectrum
Virtualize
IBM System Storage N series Reference Architecture for Virtualized
Environments
Managing and Optimizing VMware vSphere Deployments
VMware
Cookbook
Mastering VMware NSX for vSphere
VMware Private Cloud Computing with
vCloud Director
vSphere 6 Foundations Exam Official Cert Guide (Exam
#2V0-620)
Mastering VMware vSphere 6.7
VCP6-NV Official Cert Guide (Exam
#2V0-641)
Mastering CloudForms Automation
Implementing VMware Horizon
7.7
Operationalizing VMware NSX
Mastering VMware vSphere 6.5
Virtualizing SQL
Server with VMware
VMware vCloud Architecture Toolkit (vCAT)
VCA-DCV Official
Cert Guide
VMware vSphere Troubleshooting
VMware NSX Automation
Fundamentals
Mastering VMware vSphere 6
The Official VCP5 Certification Guide
The
Complete VMware vSphere Guide
VMware vSphere Design
Tivoli Storage Manager
for Virtual Environments - Data Protection for VMware
Deployment Guide
NetApp
and VMware View Solution Guide
IBM System Storage N series with VMware
vSphere 5
Using Storage Area Networks
DevOps for VMware Administrators
VMware
vSphere For Dummies
VMware Implementation with IBM System Storage
DS5000
Encyclopedia of Information Science and Technology, Third Edition
VMware

Horizon SuiteStorage Implementation in vSphere 5.0Essential Virtual
SanVirtualizing Microsoft Business Critical Applications on VMware VSphereVMware
NSX Micro-Segmentation ? Day 1

Networking for VMware Administrators

"Now that virtualization has blurred the lines between networking and servers, many VMware specialists need a stronger understanding of networks than they may have gained in earlier IT roles. Networking for VMware administrators fills this crucial knowledge gap. Writing for VMware professionals, Christopher Wahl and Steve Pantol illuminate the core concepts of modern networking, and show how to apply them in designing, configuring, and troubleshooting any virtualized network environment"--P. [4] of cover.

Virtualizing Oracle Databases on VSphere

Achieve the performance, scalability, and ROI your business needs What can you do at the start of a virtualization deployment to make things run more smoothly? If you plan, deploy, maintain, and optimize vSphere solutions in your company, this unique book provides keen insight and solutions. From hardware selection, network layout, and security considerations to storage and hypervisors, this book explains

the design decisions you'll face and how to make the right choices. Written by two virtualization experts and packed with real-world strategies and examples, VMware vSphere Design, Second Edition will help you design smart design decisions. Shows IT administrators how plan, deploy, maintain, and optimize vSphere virtualization solutions Explains the design decisions typically encountered at every step in the process and how to make the right choices Covers server hardware selection, network topology, security, storage, virtual machine design, and more Topics include ESXi hypervisors deployment, vSwitches versus dvSwitches, and FC, FCoE, iSCSI, or NFS storage Find out the "why" behind virtualization design decisions and make better choices, with VMware vSphere Design, Second Edition, which has been fully updated for vSphere 5.x.

VMware VI and vSphere SDK

IBM® Spectrum Virtualize and VMware's Virtual Volumes (VVols) are paving the way toward a true IBM Software Defined Environment (SDE). IBM Spectrum™ 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 Virtualize™..

VCA-DCV VMware Certified Associate on vSphere Study Guide

All you need to know to plan, deploy, and run virtual infrastructure with VMware vSphere 5 - including secrets nobody else will tell you! * *Fully covers planning, implementing, operating, and managing vSphere 5. *Brings together key techniques in a start-to-finish case study. *Offers expert guidance on overcoming common VMware pitfalls, problems, and obstacles to 100% virtualization. *By two leading experts, including one of the world's first holders of VMware's elite VCDX certification. To make the most of VMware's vSphere 5, IT professionals need knowledge, tips, and insights they'll never find in the manuals - or in any book, until now! In *Managing and Optimizing vSphere Deployments*, two world-class VMware experts offer start-to-finish lessons for vSphere planning, implementation, operation, management, and troubleshooting: expert insights drawn from their own unsurpassed 'in-the-trenches' consulting experience. The authors focus on the most crucial techniques VMware professionals need, providing guidance optimized for the new vSphere 5, and frameworks that will support the evolution of virtual infrastructure for years to come. They present scenarios and case studies drawn from real-world data, addressing areas ranging from sizing and performance to redundancy. Coverage includes: * *Smoothly integrating vSphere 5 into current environments and considerations. *Overcoming roadblocks to 100% virtualization. *Establishing a more stable infrastructure. *Choosing hardware and making optimal configuration decisions. *Automating tasks and maximizing availability.

*Efficiently managing updates, patches, and upgrades. *Monitoring vSphere 5 with tools provided by VMware and its community. *Planning for growth, and much more

IBM FlashSystem V9000 and VMware Best Practices Guide

style="margin:0px;" > Trust the Official Cert Guide series from VMware Press to help you learn, prepare, and practice for exam success. They are the only VMware authorized self-study books and are built with the objective of providing assessment, review, and practice to help ensure you are fully prepared for your certification exam. Master VMware certification exam topics Assess your knowledge with chapter-opening quizzes Review key concepts with exam preparation tasks This is the eBook edition of The VCP6-NV Official Cert Guide. This eBook does not include the practice exams that come with the print edition. The VCP6-NV 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 allows you to decide how much time you need to spend on each section. Exam topic lists make referencing easy. Chapter-ending Exam Preparation Tasks help you drill on key concepts you must know thoroughly. The VCP6-NV Official Cert Guide focuses specifically on the objectives for the VMware Certified Professional 6—Network Virtualization (VCP6-NV #2V0-641) exam. Leading NSX and data center expert Elver Sena Sosa shares

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. Well-regarded for its level of detail, assessment features, comprehensive design scenarios, and challenging review questions and exercises, this official study guide helps you master the concepts and techniques that will allow you to succeed on the exam the first time. The official study guide helps you master all the topics on the VCP6-NV (#2V0-641) exam, including: Understanding VMware NSX technology and architecture Understanding VMware NSX physical infrastructure requirements Configuring and managing vSphere networking Installing and upgrading VMware NSX Configuring VMware NSX virtual networks Configuring and managing NSX network services Configuring and administering network security Deploying a cross-vCenter NSX environment Performing operations tasks in a VMware NSX environment Troubleshooting a VMware network virtualization implementation The VCP6-NV 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.

Configuring VMware Virtual Volumes for Systems Powered by

IBM Spectrum Virtualize

Gain expertise in troubleshooting most common issues to implement vSphere environments with ease About This Book Plan, analyze, and design effective solutions for your vSphere environment Troubleshoot problems related to vSphere performance Familiarize yourself with the advanced troubleshooting concepts and become an expert level administrator Who This Book Is For The book is intended for mid-level System Engineers and System Integrators who want to learn VMware power tools to troubleshoot and manage the vSphere infrastructure. Good knowledge level and understanding of virtualization is expected. What You Will Learn Configure vSphere management assistant and troubleshooting tools Use troubleshooting tools to monitor performance and troubleshoot different issues Learn how to troubleshoot High Availability and other commonly known problems with clusters such as insufficient resources, failing heartbeats Use Direct Console User Interface (DCUI) to verify configuration Diagnose storage issues including iSCSI, NFS and VMFS problems Manage vSphere Network Virtual and Distributed Switches, Trunks, VLANs Monitor and shape network traffic, configure routes and DNS Quickly resolve common day-to-day problems by analysing logs of VMware vSphere hosts and VMware vCenter Server Debug and resolve commonly known vSphere Cluster problems In Detail VMware vSphere is the leading server virtualization platform with consistent management for virtual data centers. It enhances troubleshooting skills to diagnose and resolve day to day problems in

your VMware vSphere infrastructure environment. This book will provide you practical hands-on knowledge of using different performance monitoring and troubleshooting tools to manage and troubleshoot the vSphere infrastructure. It begins by introducing systematic approach for troubleshooting different problems and show casing the troubleshooting techniques. You will be able to use the troubleshooting tools to monitor performance, and troubleshoot issues related to Hosts and Virtual Machines. Moving on, you will troubleshoot High Availability, storage I/O control problems, virtual LANS, and iSCSI, NFS, VMFS issues. By the end of this book, you will be able to analyze and solve advanced issues related to vSphere environment such as vcenter certificates, database problems, and different failed state errors. Style and approach A step-by-step guide full of real world scenarios that will enhance advanced knowledge, skills, and abilities to achieve competence in troubleshooting the VMware vSphere environment. Basic concepts of vSphere and the most common vSphere infrastructure problems are explained with practical solutions to resolve it.

IBM System Storage N series Reference Architecture for Virtualized Environments

Best practices, guidance, and tips for virtualizing Microsoft® business critical applications on the VMware vSphere® platform By virtualizing Microsoft's

enterprise applications on vSphere, you can drive down costs while migrating toward flexible, low-cost private cloud architectures. This unique guidebook bridges the gap between the Microsoft and VMware worlds, bringing together the deep knowledge, cutting-edge best practices, and practical techniques you need to succeed. Leading experts Matt Liebowitz and Alex Fontana present end-to-end coverage of virtualizing Windows Server 2012 AD domain controllers and failover clusters, Exchange Server 2013, SQL Server 2012, and SharePoint Server 2013. They offer indispensable advice on sizing, architecture, performance, availability, monitoring, and metrics. Throughout, the authors share valuable tips, tricks, and insights from their own experiences. For each Microsoft application, they provide "proof of concept" sample configurations and clearly explain how new features impact virtualization. You'll also find authoritative, up-to-date guidance on licensing and other issues related to ensuring full support from both Microsoft and VMware. Coverage includes

- Evaluating the benefits, risks, and challenges of virtualizing Microsoft business critical applications
- Identifying strategies for success associated with people, processes, and technology
- Reviewing VMware vSphere features most important to virtualizing business-critical applications
- Taking advantage of new virtualization-aware features built in to Windows Server 2012 domain controllers
- Designing and configuring vSphere High Availability (vSphere HA) clusters to run Windows enterprise applications
- Reflecting Exchange Server 2013's new architecture to maximize its performance in virtualized environments
- Leveraging new SQL Server 2012 features to simplify

the delivery of high availability on virtual servers • Reducing SQL Server 2012 licensing costs through virtualization • Planning, designing, and deploying virtualized SharePoint Server 2013 environments

Managing and Optimizing VMware VSphere Deployments

With scores of step-by-step solutions, this cookbook helps you work with VMware ESXi 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 how to overcome the stumbling blocks you'll encounter when you monitor systems, troubleshoot problems, and deal with security. This expanded second edition covers recent advances in vCloud Director and vShield cloud security. Ideal for system administrators of any level, VMware Cookbook also includes valuable information to help you determine your virtualization needs. Move into the cloud with vCloud Director, and secure virtual datacenters with vSphere Secure and monitor your virtual environment from the command line Manage disk, SSD, and SAN storage implementation and configuration Discover options for managing resources, such as clustering, shares, and hot add/hotplug support Configure logical and physical networks, including virtual switches and software and hardware adapters Make virtual machine replication easier by automating ESXi installations Gain valuable tips for configuration and fine-tuning

VMware Cookbook

Use this expert guide to prepare for the VCA-DCV exam VCA-DCV VMware Certified Associate on vSphere Study Guide:VCAD-510 is a comprehensive study guide for the VMware Certified Associate – Data Center Virtualization exam. Hands-on examples, real-world scenarios, and expert review questions cover the full exam blueprint, and the companion website offers a suite of tools to help you prepare for the exam including practice exams, electronic flashcards, and a glossary of key terms. In addition, the website includes videos that demonstrate how to complete the more challenging tasks. Focused on practical skills, this study guide not only prepares you for the certification exam, but also for the duties expected of a VCA. The VMware Certified Associate-Data Center Virtualization certification targets those with limited virtualization and VMware data center technology experience, providing a springboard to the popular VMware Certified Professional-Data Center Virtualization certification. Virtualization has become a high priority among organizations, and credentialed professionals are in high demand. This guide helps you prove a certain level of foundational skill in basic virtualization technology, including the vSphere suite's Infrastructure Services, Application Services, and vCenter Server. Topics include: Explaining data center virtualization concepts Identifying the core components of vSphere Networking and storage planning/configuration with vSphere Correlating VMware solutions to common business challenges The VCA-DCV certification is the only one with no instructor-

ledtraining requirement, so a thorough study guide is an invaluable tool in your exam preparation. This book not only covers the full exam, but also provides practice designed to actually improve the skills used every day on the job. VCA-DCV VMware Certified Associate on vSphere Study Guide is more than just test prep—it's job prep.

Mastering VMware NSX for vSphere

Drive Even More Value from Virtualization: Write VMware® Applications that Automate Virtual Infrastructure Management Companies running VMware have already achieved enormous gains through virtualization. The next wave of benefits will come when they reduce the time and effort required to run and manage VMware platforms. The VMware Infrastructure Software Development Kit (VI SDK) includes application programming interfaces (APIs) that allow developers and administrators to do just that. Until now, there has been little documentation for the APIs. In VMware VI and vSphere SDK, software architect Steve Jin demystifies the entire VMware VI and new vSphere SDK and offers detailed, task-based coverage of using the APIs to manage VMware more efficiently and cost-effectively. Jin walks you through using the VI SDK and cloud-computing vSphere SDK to manage ESX servers, ESX clusters, and VirtualCenter servers in any environment—no matter how complex. Drawing on his extensive expertise working with VMware strategic partners and enterprise customers, he places the VI SDK in

practical context, presenting realistic samples and proven best practices for building robust, effective solutions. Jin demonstrates how to manage every facet of a VMware environment, including inventory, host systems, virtual machines (VMs), snapshots, VMotion, clusters, resource pools, networking, storage, data stores, events, alarms, users, security, licenses, and scheduled tasks. Coverage includes

- Understanding how the VI SDK fits into your VMware VI and Cloud Ready vSphere Environment
- Discovering the VI and vSphere SDK from the bottom up
- Using the author's new VI Java API to write shorter, faster, and more maintainable code
- Managing VI and vSphere inventory and configurations
- Moving running VMs and storages across different physical platforms without disruption
- Optimizing system resources, hardening system securities, backing up VMs and other resources
- Leveraging events, alarms, and scheduled tasks to automate the system management
- Developing powerful applications that integrate multiple API features and run on top of or alongside VMware platforms
- Using the VI SDK to monitor performance
- Scripting with the VI SDK: building solutions with VI Perl, PowerShell, and Jython
- Avoiding the pitfalls that trip up VMware VI developers
- Integrating with and extending VMware platforms using VI SDK

This book is an indispensable resource for all VMware developers and administrators who want to get more done in less time; for hardware vendors who want to integrate their products with VMware; for ISV developers building new VMware applications; and for every professional and student seeking a deeper mastery of virtualization.

VMware Private Cloud Computing with VCloud Director

Understand and implement VMware Virtual SAN: the heart of tomorrow's Software-Defined Datacenter (SDDC) VMware's breakthrough Software-Defined Datacenter (SDDC) initiative can help you virtualize your entire datacenter: compute, storage, networks, and associated services. Central to SDDC is VMware Virtual SAN (VSAN): a fully distributed storage architecture seamlessly integrated into the hypervisor and capable of scaling to meet any enterprise storage requirement. Now, the leaders of VMware's wildly popular Virtual SAN previews have written the first authoritative guide to this pivotal technology. You'll learn what Virtual SAN is, exactly what it offers, how to implement it, and how to maximize its value. Writing for administrators, consultants, and architects, Cormac Hogan and Duncan Epping show how Virtual SAN implements both object-based storage and a policy platform that simplifies VM storage placement. You'll learn how Virtual SAN and vSphere work together to dramatically improve resiliency, scale-out storage functionality, and control over QoS. Both an up-to-the-minute reference and hands-on tutorial, Essential Virtual SAN uses realistic examples to demonstrate Virtual SAN's most powerful capabilities. You'll learn how to plan, architect, and deploy Virtual SAN successfully, avoid gotchas, and troubleshoot problems once you're up and running. Coverage includes Understanding the key goals and concepts of Software-Defined Storage and Virtual SAN technology Meeting physical and virtual requirements for safe Virtual SAN implementation Installing and configuring Virtual

SAN for your unique environment Using Storage Policy Based Management to control availability, performance, and reliability Simplifying deployment with VM Storage Policies Discovering key Virtual SAN architectural details: caching I/O, VASA, witnesses, pass-through RAID, and more Ensuring efficient day-to-day Virtual SAN management and maintenance Interoperating with other VMware features and products Designing and sizing Virtual SAN clusters Troubleshooting, monitoring, and performance optimization

vSphere 6 Foundations Exam Official Cert Guide (Exam #2V0-620)

Mastering VMware vSphere 6.7

A clear, comprehensive guide to VMware's latest virtualization solution Mastering VMware NSX for vSphere is the ultimate guide to VMware's network security virtualization platform. Written by a rock star in the VMware community, this book offers invaluable guidance and crucial reference for every facet of NSX, with clear explanations that go far beyond the public documentation. Coverage includes NSX architecture, controllers, and edges; preparation and deployment; logical switches; VLANs and VXLANs; logical routers; virtualization; edge network services; firewall

security; and much more to help you take full advantage of the platform's many features. More and more organizations are recognizing both the need for stronger network security and the powerful solution that is NSX; usage has doubled in the past year alone, and that trend is projected to grow—and these organizations need qualified professionals who know how to work effectively with the NSX platform. This book covers everything you need to know to exploit the platform's full functionality so you can:

- Step up security at the application level
- Automate security and networking services
- Streamline infrastructure for better continuity
- Improve compliance by isolating systems that handle sensitive data

VMware's NSX provides advanced security tools at a lower cost than traditional networking. As server virtualization has already become a de facto standard in many circles, network virtualization will follow quickly—and NSX positions VMware in the lead the way vSphere won the servers. NSX allows you to boost security at a granular level, streamline compliance, and build a more robust defense against the sort of problems that make headlines. Mastering VMware NSX for vSphere helps you get up to speed quickly and put this powerful platform to work for your organization.

VCP6-NV Official Cert Guide (Exam #2V0-641)

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 CloudForms Automation

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.

Implementing VMware Horizon 7.7

Offers information on cloud theory and strategies and includes information on how to build and deliver a private cloud using VMware vCloud Director 5.1.

Operationalizing VMware NSX

Trust the Official Cert Guide series from VMware Press to help you learn, prepare, and practice for exam success. They are the only VMware-authorized self-study books and are built with the objective of providing assessment, review, and practice to help ensure you are fully prepared for your certification exam. Master VMware certification exam topics Assess your knowledge with chapter-opening quizzes Review key concepts with exam preparation tasks Reinforce your learning with web-based practice exams An excellent "fundamentals" book on vSphere & The Official VCA-DCV Certification Guide focuses specifically on the objectives for the VCA-DCV, the VMware Certified Associate on Data Center Virtualization exam (VCAD510). Experts Matt Vandenberg and Jonathan MacDonald 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. & Well regarded for its level of detail, assessment features, comprehensive design scenarios, and challenging review questions and exercises, this official study guide helps you master the concepts and techniques that will enable you to succeed on the exam the first time. The official study guide helps you master all the topics on the VCA-DCV exam, including the following: & Datacenter virtualization: What is it and what are the components? Business challenges solved by virtualization Core components of vSphere: the virtual machine, ESXI, high availability vSphere

storage, including physical versus virtual, storage types, thin provisioning, and more vSphere networking fundamentals, physical versus virtual switches, components, policies, I/O Mapping business challenges to vSphere solutions. The Official VCA-DCV Certification 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.

Mastering VMware vSphere 6.5

VMware 2V0-620 and 2V0-621 exams retired in 2019. We are continuing to make this content available for those who wish to use it to study the foundational information it contains. vSphere 6 Foundations Exam Official Cert Guide (Exam #2V0-620) vSphere 6 Foundations Exam Official Cert Guide (Exam #2V0-620) 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 Exam Preparation Tasks help you drill on key concepts you must know thoroughly. · Master VMware vSphere 6 Foundations Exam topics · Assess your knowledge with chapter-opening quizzes · Review key concepts with exam-preparation tasks · Practice with realistic

exam questions vSphere 6 Foundations Exam Official Cert Guide (Exam #2V0-620) focuses specifically on the objectives for the vSphere 6 Foundations (#2V0-620) Exam. Leading VMware consultant and trainer Bill Ferguson shares 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 companion website contains a powerful Pearson IT Certification Practice Test engine that enables you to focus on individual topic areas or take a complete, timed exam. The assessment engine tracks your performance and provides feedback on a module-by-module basis, laying out a complete assessment of your knowledge to help you focus your study where it is needed most. Well regarded for its level of detail, assessment features, comprehensive design scenarios, and challenging review questions and exercises, this official study guide helps you master the concepts and techniques that will enable you to succeed on the exam the first time. vSphere 6 Foundations Exam Official Cert Guide (Exam #2V0-620) 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. The official study guide helps you master all the topics on the vSphere 6 Foundations Exam (#2V0-620), including

- Identifying vSphere architecture and solutions for a given use case
- Installing and configuring vCenter Server and ESXi
- Configuring

vSphere networking, including vSS, vDS, and their features · Configuring vSphere storage · Deploying and administering virtual machines, VM clones, templates, and vApps · Establishing and maintaining availability and resource management features, including clusters, fault tolerance, and resource pools · Troubleshooting ESXi, vCenter Server, vCenter operations, VM operations, and basic misconfigurations · Monitoring a vSphere implementation, including ESXi, vCenter Server, and virtual machines · Installing, configuring, and managing vCenter Operations Manager NOTE: Although there are changes between vSphere 6.0 and 6.5, they are not in the area of Foundations, therefore, vSphere 6 Foundations Exam #2V0-620 can be taken as part of official preparation steps toward your 6.5 or 7.0 certifications.

Virtualizing SQL Server with VMware

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 VCloud Architecture Toolkit (vCAT)

THE ONLY AUTHORITATIVE, COMPREHENSIVE GUIDE TO VSPHERE STORAGE IMPLEMENTATION AND MANAGEMENT Effective VMware virtualization storage planning and management has become crucial—but it can be extremely complex. Now, the leading VMware expert on storage completely demystifies the "black box" of vSphere storage and provides illustrated, step-by-step procedures for performing every key task associated with it. You'll gain the deep understanding you need to make better storage decisions, solve problems, and keep problems from occurring in the first place. Mostafa Khalil presents techniques based on years of personal experience helping customers troubleshoot storage in their vSphere production environments. With more experience than anyone else in the field, he combines expert guidelines, insights for better architectural design, best practices for both planning and management, common configuration details, and deep dives

into both vSphere and third-party storage. Storage Implementation in vSphere® 5.0 fully explains each storage connectivity choice and protocol supported by VMware, introduces Pluggable Storage Architecture (PSA), and shows how to build on PSA with multipathing, failover, and ALUA. It thoroughly introduces Storage Virtualization Devices (SVDs) and VMDirectPath I/O, and shows how to drive powerful improvements in performance, flexibility, and manageability with VMFS 5 and VAAI. COVERAGE INCLUDES Understanding how FC, FCoE, and iSCSI interact with VMware vSphere 5 Implementing specific VMware capabilities on storage hardware from each leading vendor Avoiding, recognizing, and fixing misconfigurations and other problems Using third-party MPIO plug-ins certified with vSphere 5 and PSA Maximizing availability through multipathing and failover Implementing fixed and round-robin multipathing on arrays with ALUA support Monitoring and optimizing virtual storage performance Managing vSphere-compatible file systems: VMFS and NFS Taking full advantage of VMDirectPath I/O Implementing heterogeneous storage configurations Presenting abstracted storage through virtual disks and Raw Device Mappings (RDMs) Using VMFS 5 to simplify management and improve scalability in large-scale environments Sharing storage and migrating more easily across multiple VMware vSphere instances Optimizing storage performance with VAAI-compliant devices

Mostafa Khalil, Senior Staff Engineer with VMware Global Support Services, specializes in storage integration for virtual environments. He has worked for VMware for 13 years and supported all VMware virtualization products since Workstation for Linux 1.0 beta. Khalil has

worked on most enterprise storage vendors' solutions and received engineering-level training for many of them. He has presented at every VMworld, and at VMware Partner Exchange, VMware User Group, and USENIX. ISBN-13: 978-0-321-79993-7 ISBN-10: 0-321-79993-3

VCA-DCV Official Cert Guide

This IBM® Redpaper™ publication describes best practices for deploying IBM FlashSystem™ V9000 enterprise storage system in a VMware vSphere environment. It includes guidelines and examples of the latest FlashSystem V9000 hardware and software, integrated with VMware version 6, to demonstrate the business benefits these solutions. Topics illustrate planning, configuring, operations, and preferred practices that include integration of FlashSystem V9000 with the VMware vCloud suite of applications: vCenter Web Client (VWC) vStorage APIs for Storage Awareness (VASA) vStorage APIs for Array Integration (VAAI) vCenter Site Recovery Manager (SRM/SRA) The authors also describe how to deploy a cloud-based solution with FlashSystem V9000 in an environment with VMware and IBM Spectrum™ Control Base Edition 2.1.1. This paper is intended for presales consulting engineers, sales engineers, and IBM clients who want to deploy IBM FlashSystem V9000 in virtualized data centers that are based on VMware vSphere.

VMware vSphere Troubleshooting

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.

VMware NSX Automation Fundamentals

"This 10-volume compilation of authoritative, research-based articles contributed by thousands of researchers and experts from all over the world emphasized modern issues and the presentation of potential opportunities, prospective solutions, and future directions in the field of information science and technology"--Provided by publisher.

Mastering VMware vSphere 6

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.

The Official VCP5 Certification Guide

In this IBM® Redbooks® publication, we compiled best practices for planning, designing, implementing, and maintaining IBM Midrange Storage Solutions. In this

publication, we use IBM System Storage® DS5000 storage subsystem for the implementation procedures, and the same procedures can be used for implementations with DCS3700 or DS3500 storage subsystems. We also compiled configurations for a VMware ESX and VMware ESXi Server host environment. Setting up an IBM Midrange Storage Subsystem is a challenging task. Our principal objective in this book is to provide you with a sufficient overview to effectively enable storage area network (SAN) storage and VMware. There is no single configuration that is satisfactory for every application or situation. However, the effectiveness of the VMware implementation is enabled by careful planning and consideration. Although the compilation of this publication is derived from an actual setup and verification, we did not stress test or test for all possible use cases that are used in a limited configuration assessment. Because of the highly customizable nature of a VMware ESXi host environment, you must consider your specific environment and equipment to achieve optimal performance from an IBM Midrange Storage Subsystem. When you are weighing the recommendations in this publication, you must start with the first principles of input/output (I/O) performance tuning. Each environment is unique and the correct settings that are used depend on the specific goals, configurations, and demands for the specific environment. This publication is intended for technical professionals who want to deploy VMware ESXi and VMware ESX Servers with IBM Midrange Storage Subsystems.

The Complete VMware vSphere Guide

Offers techniques, tips, and insights into squeezing maximum performance out of a virtualized database.

VMware vSphere Design

Tivoli Storage Manager for Virtual Environments - Data Protection for VMware Deployment Guide

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.

NetApp and VMware View Solution Guide

IBM System Storage N series with VMware vSphere 5

DevOps for VMware® Administrators is the first book focused on using DevOps tools and practices with VMware technologies. The authors introduce high-value tools from third parties and VMware itself, and guide you through using them to improve the performance of all your virtualized systems and applications. You'll walk through automating and optimizing configuration management, provisioning, log management, continuous integration, and more. The authors also offer step-by-step coverage of deploying and managing applications at scale with Docker containers and Google Kubernetes. They conclude with an up-to-the-minute

discussion of VMware's newest DevOps initiatives, including VMware vRealize Automation and VMware vRealize Code Stream. Coverage includes • Understanding the challenges that DevOps tools and practices can help VMware administrators to solve • Using Vagrant to quickly deploy Dev and Test environments that match production system specifications • Writing Chef "recipes" that streamline server configuration and maintenance • Simplifying Unix/Linux configuration management and orchestration with Ansible • Implementing Docker containers for faster and easier application management • Automating provisioning across the full lifecycle with Razor • Integrating Microsoft PowerShell Desired State Configuration (DSC) and VMware PowerCLI to automate key Windows Server and vSphere VM admin tasks • Using Puppet to automate infrastructure provisioning, configuration, orchestration, and reporting • Supercharging log management with ELK (Elasticsearch, Logstash, Kibana) • Supporting DevOps source code management with Git and continuous integration practices with Jenkins • Achieving continuous integration, delivery, and deployment with VMware's vRealize Code Stream

Using Storage Area Networks

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.

DevOps for VMware Administrators

This IBM® Redpaper™ publication helps you to install, tailor, configure, and use IBM Tivoli® Storage Manager for Virtual Environments - Data Protection for VMware. The features of Tivoli Storage Manager for Virtual Environments - Data Protection for VMware are described. Scenarios are provided for implementation of Tivoli Storage Manager Virtual Environment to protect virtual machines in several environments. This publication includes answers to common implementation errors and questions you might have that are related to the implementation of Data Protection for VMware.

VMware vSphere For Dummies

VMware® Horizon Suite The authoritative guide to delivering end-user services with VMwarE View and VMware Horizon Suite Today, IT professionals must manage stateless, mobile, streamed workspaces delivered across devices ranging from traditional PCs to tablets and smartphones. Using VMware View and VMware Horizon Suite, they can do so—providing flexible end-user services that support any business requirement cost effectively. Now there’s a complete guide to planning, configuring, implementing, and integrating VMware Horizon Suite technologies and using them to deliver high-value end-user services in enterprise, managed, and cloud provider environments. This book’s deep up-to-date technical content addresses considerations ranging from architecture, deployment, and operations to user experience and support. It offers detailed guidance on integration with VMware View and key third-party technologies. Throughout, it fully reflects the newest VMware View releases, including VMware Horizon Mirage. Relevant, clear, and usable, VMware Horizon Suite contains step-by-step configuration examples, sample scenarios helping you choose the right technologies for your users’ needs, and a complete end-user computing design checklist. Coverage includes • Understanding the new end-user service model and how VMware View and VMware Horizon address it • Mastering VMware View 6 and VMware Workspace 1.8 architectures • Leveraging proven installation and implementation techniques • Efficiently operating Connection, Security, and Transfer servers • Managing agents,

clients, portals, composers, and personas • Integrating VMware View and Workspace • Implementing operational best practices, such as desktop pools, user data management, and SaaS • Using VMware Mirage to manage desktop images more intelligently and provide a wider spectrum of end-user services • Delivering multimedia within a View desktop environment • Integrating Microsoft Lync with VMware View • Monitoring VMware View and optimizing its performance

VMware Implementation with IBM System Storage DS5000

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.

Encyclopedia of Information Science and Technology, Third Edition

Annotation Enter the new era of data storage that combines database and networking technologies with this introductory comparison and practical implementation of Storage Area Networks. Multiple vendor reference: This book provides solutions and schemes from competing SAN vendors, including an appendix of available SAN products. Readers will learn to customize their own SAN solution: Authors forecast future growth of SANs in an Advanced Study of Virtual Interface. Technically accurate instruction: NIIT recently earned the National Education and Training group Excellence Award for defect-free deliveries of Learning products. Even highly experienced system or network professionals are

unfamiliar with SAN functionality and terminology. This book opens with an overview of the need for data storage in an enterprise environment, the different types of data storage devices, and existing data storage techniques. The authors build on that foundation with an exploration of the evolution of SAN, the various networking models and data-centric applications, a chapter dedicated to fiber channel, and practical solutions for centralized, heterogeneous, and high-speed data storage challenges. The second half of this book delves into more practical applications of the SAN: designing, implementing, managing, and troubleshooting a SAN. The last chapter explores how SAN fits into the current Web scenario, and VI Architecture as a new system of cluster communications. Unlike competing titles, this book provides solutions for alternative SAN vendors, comparing SAN schemes for competitive products. NIIT is a global eBusiness IT Solutions Corporation that has provided over 650 Educational Multimedia Software titles and more than 10,000 hours of instructor-led training during its 16 years of training delivery. Judged the Best Training Company through an opinion poll among over 1000 CIOs, software professionals, and IT users by ComputerWorld magazine, NIIT provides classroom-based training, technology-based training, and Internet-based training.

VMware Horizon Suite

Trust the bestselling Official Cert Guide series from VMware Press to help you

learn, prepare, and practice for VCP5 exam success. They are the only VMware authorized self-study books and are built with the objective of providing assessment, review, and practice to help ensure you are fully prepared for your certification exam. ****Note to readers**** In March 2013 VMware renamed the VCP5 (VMware Certified Professional on vSphere 5) to VCP5-DCV (VMware Certified Professional on vSphere 5 - Data Center Virtualization). The Official VCP5 Certification 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 Exam Preparation Tasks help you drill on key concepts you must know thoroughly. Master VMware VCP510 exam topics Assess your knowledge with chapter-opening quizzes Review key concepts with exam preparation tasks The Official VCP5 Certification 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.

Storage Implementation in vSphere 5.0

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.

Essential Virtual San

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

Virtualizing Microsoft Business Critical Applications on VMware vSphere

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.

VMware NSX Micro-Segmentation ? Day 1

The complete vCAT printed reference: knowledge, tools, and validated designs for building high-value vCloud® solutions The vCloud Architecture Toolkit (vCAT) brings together validated designs, tools, and knowledge for architecting, implementing, operating, and consuming modern vCloud infrastructure based on the Software Defined Data Center (SDDC). vCAT has already helped hundreds of VMware customers succeed with vCloud. Now, pioneering VMware architect John Arrasjid has integrated essential vCAT information into a definitive printed guide, adding even more context and examples for successful planning and deployment.

To do so, Arrasjid has distilled contributions from more than 100 VMware architects, consultants, administrators, engineers, project managers, and other technical leaders. VMware vCloud Architecture Toolkit (vCAT) is your complete roadmap for using virtualization to simplify data centers and related IT infrastructure. You'll find up-to-the-minute, field-proven insights for addressing a wide spectrum of challenges—from availability to interoperability, security to business continuity. Coverage includes vCAT design guidelines and patterns for efficiently architecting, operating, and consuming VMware cloud computing solutions Software-defined datacenter services for storage, networking, security, and availability People, process, and technology issues associated with effective vCloud operation and maintenance Efficient service consumption: consumption models, service catalogs, vApps, and service provider interactions Workflows to coordinate and automate task sequences, which extend beyond vCloud VMware vCloud Director® Server Resource Kit software tools Advanced “cloud bursting” and autoscaling techniques to dynamically leverage additional computing resources Planning and management of capacity, security, compliance, and disaster recovery

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