

Vsphere Virtual Machine Administration Guide

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

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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

Plan, implement, and manage VMware's radically simple, enterprise-class
software-defined storage platform VMware's Virtual SAN has rapidly proven
itself in environments ranging from hospitals to oil rigs to e-commerce platforms.
Along the way, it has matured to offer unsurpassed features for data integrity,
availability, and space efficiency. Virtual SAN 6.x makes all-flash storage
practical for even more use cases, while radically simplifying IT operations and
supporting the transition to hyper-converged infrastructures (HCI). Now, the
authors of Essential Virtual SAN (VSAN) have thoroughly updated their definitive

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guide to this transformative technology. Writing for vSphere administrators, architects, and consultants, Cormac Hogan and Duncan Epping explain what Virtual SAN is, how it has evolved, what it now offers, and how to gain maximum value from it. Hogan and Epping draw on unsurpassed experience shaping Virtual SAN and helping VMware customers deploy it. They offer expert insight into preparation, installation, configuration, policies, provisioning, clusters, and more. You'll also find practical guidance for using its new Health and Performance Services to gain end-to-end visibility into infrastructure and resource consumption. Both an up-to-the-minute reference and hands-on tutorial, *Essential Virtual SAN, Second Edition* uses realistic examples to demonstrate the immense power of Virtual SAN 6.x. You'll learn all you need to successfully plan and deploy the newest versions, and operate them smoothly and efficiently.

COVERAGE INCLUDES: Understanding the goals and concepts of Software-Defined Storage and Virtual SAN Meeting updated requirements for safe Virtual SAN 6.x implementation Architecting, installing, and configuring Virtual SAN for your unique environment Simplifying deployment with VM storage policies and provisioning Controlling availability, performance, and reliability Efficiently managing and maintaining Virtual SAN Providing resiliency and scale-out storage functionality Designing and sizing clusters (with examples) Using stretched

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clusters to address rigorous downtime requirements Applying valuable new features such as deduplication, compression, checksums, and encryption Using Health and Performance Services to troubleshoot hardware, configurations, and performance

Go-to guide for using Microsoft's updated Hyper-V as a virtualization solution Windows Server 2012 Hyper-V offers greater scalability, new components, and more options than ever before for large enterprises systems and small/medium businesses. Windows Server 2012 Hyper-V Installation and Configuration Guide is the place to start learning about this new cloud operating system. You'll get up to speed on the architecture, basic deployment and upgrading, creating virtual workloads, designing and implementing advanced network architectures, creating multi-tenant clouds, backup, disaster recovery, and more. The international team of expert authors offers deep technical detail, as well as hands-on exercises and plenty of real-world scenarios, so you thoroughly understand all features and how best to use them. Explains how to deploy, use, manage, and maintain the Windows Server 2012 Hyper-V virtualization solutions in large enterprises and small- to medium-businesses Provides deep technical detail and plenty of exercises showing you how to work with Hyper-V in real-world settings Shows you how to quickly configure Hyper-V from the GUI and use PowerShell to script and

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automate common tasks Covers deploying Hyper-V hosts, managing virtual machines, network fabrics, cloud computing, and using file servers Also explores virtual SAN storage, creating guest clusters, backup and disaster recovery, using Hyper-V for Virtual Desktop Infrastructure (VDI), and other topics Help make your Hyper-V virtualization solution a success with Windows Server 2012 Hyper-V Installation and Configuration Guide.

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.

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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-led training requirement, so a thorough study guide is an invaluable tool in you 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.

A new and updated edition of bestselling Mastering VMware vSphere 4 Written by leading VMware expert, this book covers all the features and capabilities of VMware vSphere. You'll learn how to install, configure, operate, manage, and secure the latest release. Covers all the new features and capabilities of the much-anticipated new release of VMware vSphere Discusses the planning, installation, operation, and management for the latest release Reviews migration to the latest vSphere software Offers hands-on instruction and clear explanations

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with real-world examples Mastering VMware vSphere is the strategic guide you need to maximize the opportunities of virtualization.

The only quick reference guide to the number one virtualization product! Get all your solutions about VMware's newest virtualization infrastructure software on the spot with this handy reference guide. Designed for quick access with special headings, thumb tabs, easy-to-read lists, and more, this book is the perfect companion to any comprehensive VMware guide, such as Mastering VMware vSphere 4. Covers the market-leading virtualization product, VMware's new vSphere 4 Offers a quick-access reference for your day-to-day administration of vSphere 4 Includes thumb tabs, secondary and tertiary tables of contents, and special heading treatments to provide quick and easy lookup, as well as quick-reference tables, lists, and step-by-step instruction to provide VMware administrators answers on the spot Keep this helpful, handy guide within easy reach.

This book constitutes the revised selected papers of the 12th International Conference on Service-Oriented Computing, ICSOC 2014, held in Paris, France, in November 2014. The conference hosted the following seven workshops: 10th International Workshop in Engineering Service-Oriented Applications, WESOA 2014; First Workshop on Resource Management in Service-Oriented Computing,

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RMSOC 2014; First International Workshop on Knowledge Aware Service Oriented Applications, Performance Assessment and Auditing in Service Computing, KASA 2014; Workshop on Intelligent Service Clouds, ISC 2014; Third International Workshop on Self-Managing Pervasive Service Systems, SeMaPS 2014; First International Workshop on Formal Modeling and Verification of Service-Based Systems, FOR-MOVES 2014; 4th International Workshop on Cloud Computing and Scientific Applications, CCSA 2014. The papers included in this volume were carefully reviewed and selected from numerous submissions. They address various topics in the service-oriented computing domain and its emerging applications.

Deploy and configure vSphere infrastructure and learn to effectively create and administer vSphere virtual machines Key Features Implement advanced network virtualization techniques Configure and administer vSphere high availability Enhance your data center virtualization skills with practice questions and mock tests Book Description This exam guide enables you to install, configure, and manage the vSphere 6.5 infrastructure in all its components: vCenter Server, ESXi hosts, and virtual machines, while helping you to prepare for the industry standard certification. This data center book will assist you in automating administration tasks and enhancing your environment's capabilities. You will

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begin with an introduction to all aspects related to security, networking, and storage in vSphere 6.5. Next, you will learn about resource management and understand how to back up and restore the vSphere 6.5 infrastructure. As you advance, you will also cover troubleshooting, deployment, availability, and virtual machine management. This is followed by two mock tests that will test your knowledge and challenge your understanding of all the topics included in the exam. By the end of this book, you will not only have learned about virtualization and its techniques, but you'll also be prepared to pass the VCP6.5-DCV (2V0-622) exam. What you will learn

- Deploy and configure vSphere infrastructure
- Create and administer vSphere virtual machines
- Optimize, secure, and troubleshoot all vSphere components
- Implement vSphere HA on a vSAN cluster
- Understand how to back up and restore your vSphere 6.5 infrastructure
- Test your understanding of key concepts required through sample questions

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

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

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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

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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.

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

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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. The first book in the IT Architect series helps aspiring & experienced IT infrastructure architects/administrators, and those pursuing infrastructure design

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certifications, establish a solid foundation in the art of infrastructure design. The three authors

The VMware Certified Professional on vSphere 5—Datacenter Virtualization (VCP5-DCV) certification is the most desired certification for virtualization professionals, and this study guide covers all the requirements for the exam. Skill in virtualization is a top priority for companies when hiring IT staff, and VMware skills are in high demand. Part of the highly acclaimed Sybex Study Guide series, this comprehensive book guides you through planning, installing, and upgrading ESXi; configuring networking, storage, and vCenter Server; deploying and managing virtual machines, and much more. Virtualization skills are in high demand by employers, and the VCP5-DCV certification enhances your marketability as an IT professional. This Sybex Study Guide helps prepare you to successfully complete all parts of the exam. Covers all aspects of ESXi planning, installation, upgrading, configuration, troubleshooting, and alarm management. Includes 100% coverage of the exam objectives, real world scenarios, hands-on exercises, challenging review questions, bonus practice exams, and electronic flashcards. If you want the best preparation for the VCP5-DCV exam, this is the study guide you need.

The IBM® Distributed Virtual Switch 5000V (DVS 5000V) is a software-based

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network switching solution that is designed for use with the virtualized network resources in a VMware enhanced data center. It works with VMware vSphere and ESXi 5.0 and beyond to provide an IBM Networking OS management plane and advanced Layer 2 features in the control and data planes. It provides a large-scale, secure, and dynamic integrated virtual and physical environment for efficient virtual machine (VM) networking that is aware of server virtualization events, such as VMotion and Distributed Resource Scheduler (DRS). The DVS 5000V interoperates with any 802.1Qbg compliant physical switch to enable switching of local VM traffic in the hypervisor or in the upstream physical switch. Network administrators who are familiar with IBM System Networking switches can manage the DVS 5000V just like IBM physical switches by using advanced networking, troubleshooting, and management features to make the virtual switch more visible and easier to manage. This IBM Redbooks® publication helps the network and system administrator install, tailor, and quickly configure the IBM Distributed Virtual Switch 5000V (DVS 5000V) for a new or existing virtualization computing environment. It provides several practical applications of the numerous features of the DVS 5000V, including a step-by-step guide to deploying, configuring, maintaining, and troubleshooting the device. Administrators who are already familiar with the CLI interface of IBM System

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Networking switches will be comfortable with the DVS 5000V. Regardless of whether the reader has previous experience with IBM System Networking, this publication is designed to help you get the DVS 5000V functional quickly, and provide a conceptual explanation of how the DVS 5000V works in tandem with VMware.

This Festschrift volume, published in honor of Kokichi Futatsugi, contains 31 invited contributions from internationally leading researchers in formal methods and software engineering. Prof. Futatsugi is one of the founding fathers of the field of algebraic specification and verification and is a leading researcher in formal methods and software engineering. He has pioneered and advanced novel algebraic methods and languages supporting them such as OBJ and CafeOBJ and has worked tirelessly over the years to bring such methods and tools in contact with software engineering practice. This volume contains contributions from internationally leading researchers in formal methods and software engineering.

Future communication networks aim to build an intelligent and efficient living environment by connecting a variety of heterogeneous networks to fulfill complicated tasks. These communication networks bring significant challenges in building secure and reliable communication networks to address the numerous

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threat and privacy concerns. New research technologies are essential to preserve privacy, prevent attacks, and achieve the requisite reliability. Security, Privacy and Reliability in Computer Communications and Networks studies and presents recent advances reflecting the state-of-the-art research achievements in novel cryptographic algorithm design, intrusion detection, privacy preserving techniques and reliable routing protocols. Technical topics discussed in the book include: Vulnerabilities and Intrusion Detection Cryptographic Algorithms and Evaluation Privacy Reliable Routing Protocols This book is ideal for personnel in computer communication and networking industries as well as academic staff and collegial, master, Ph.D. students in computer science, computer engineering, cyber security, information insurance and telecommunication systems.

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

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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.

Your One-Stop Reference for VMware vSphere Automation If you manage vSphere in a Windows environment, automating routine tasks can save you time and increase efficiency. VMware vSphere PowerCLI is a set of pre-built commands based on Windows PowerShell that is designed to help you automate vSphere processes involving virtual machines, datacenters, storage, networks, and more. This detailed guide—using a practical, task-based approach and real-world examples—shows you how to get the most out of PowerCLI's handy cmdlets. Learn how to: Automate vCenter Server and ESX/ESX(i) Server deployment and configuration Create and configure virtual machines and use vApps Secure, back up, and restore your virtual machines Monitor, audit, and

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report the status of your vSphere environment Use the PowerCLI SDK, PowerWF Studio, and vEcoShell Schedule and view automation Add a GUI front end to your scripts

This IBM® Redbooks® publication details the configuration and best practices for using IBM's FlashSystem family of storage products within a VMware environment. This book was published in 2021 and specifically addresses Spectrum Virtualize Version 8.4 with VMware vSphere Version 7.0. Topics illustrate planning, configuring, operations, and preferred practices that include integration of FlashSystem storage systems with the VMware vCloud suite of applications: - vSphere Web Client (VWC) - vStorage APIs for Storage Awareness (VASA) - vStorage APIs for Array Integration (VAAI) - Site Recovery Manager (SRM) - vSphere Metro Storage Cluster (vMSC) This book is intended for presales consulting engineers, sales engineers, and IBM clients who want to deploy IBM FlashSystem® storage systems in virtualized data centers that are based on VMware vSphere.

Plan, design, deploy, and administer the solutions available in VxRail Appliance Key Features Learn how to plan and design the VxRail HCI system Understand VxRail's administration, lifecycle management, and cluster scale-out Explore migration methodologies for VxRail systems Book Description Hyper-converged

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infrastructure (HCI) can help you simplify the provisioning and daily operations of computing and storage. With this book, you'll understand how HCI can offload the day 0 deployment and day-to-day operations of a system administrator. You'll explore the VxRail Appliance, which is an HCI solution that provides lifecycle management, automation, and operational simplicity. Starting with an overview of the VxRail Appliance system architecture and components, you'll understand the benefits of the VxRail system and compare it with the environment of traditional servers and storage. As you advance, the book covers topics such as disaster recovery and active-active and active-passive solutions for VxRail. By the end of this book, you'll have gained the confidence to manage the deployment, administration, planning, and design of a VxRail system. What you will learn

- Set up the hardware and software requirements for a VxRail installation
- Monitor the status of VxRail appliances with the VxRail Manager plugin
- Get to grips with all the administration interfaces used to manage the VxRail appliance
- Understand vCenter roles and permissions management in the VxRail cluster
- Discover best practices for vSAN configuration in the VxRail cluster
- Find out about VxRail cluster scale-out rules and how to expand the VxRail cluster
- Deploy active-passive solutions for VxRail with VMware Site Recovery Manager (SRM)

Who this book is for If you are a system architect, system administrator, or consultant

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involved in planning and deploying VxRail HCI or want to learn how to use VxRail HCI, then this book is for you. Equivalent knowledge and administration experience with ESXi and vCenter Server will be helpful.

Compact and portable reference guide for quick answers to VMware vSphere If you're looking to migrate to the newest version of VMware vSphere, this concise guide will get you up to speed and down to business in no time. If you're new to VMware vSphere, this book is for you too! The compact size of this quick reference makes it easy for you to have by your side—whether you're in the field, server room, or at your desk. Helpful elements for finding information such as thumb tabs, tables of contents with page numbers at the beginning of each chapter, and special headers puts what you need at your fingertips, fast. No matter your skill level, this book's focus on essential day-to-day tasks for administering vSphere make it a handy reference for anyone. Covers the highly anticipated release of VMware vSphere Allows you to hit the ground running with the latest VMware vSphere software Provides you answers on the spot with concise, no-nonsense instruction Designed for busy IT professionals, this instant reference is the perfect go-to resource.

This book follows a step-by-step tutorial approach with some real-world scenarios that vSphere businesses will be required to overcome every day. This book also

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discusses creating and configuring virtual machines and also covers monitoring virtual machine performance and resource allocation options. This book is for VMware administrators who want to build their knowledge of virtual machine administration and configuration. It's assumed that you have some experience with virtualization administration and vSphere.

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

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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.

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

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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. 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

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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. 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,

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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® Spectrum Virtualize and VMware's Virtual Volumes (VVols) are paving the way

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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™. Learn to deploy and support Hyper-V, building on what you know about VMware's vSphere. Whether you're looking to run both hypervisors in parallel or migrate completely, Hyper-V for VMware Administrators has everything you need to get started. The book begins with an overview of Hyper-V basics, including common management tasks such as creating a virtual machine and building a virtual network. You'll learn how to deploy a failover cluster to protect against the risk of Hyper-V becoming a single point of failure, and how to make virtual machines fault tolerant. System Center Virtual Machine Manager (SCVMM) is the preferred tool for managing large Hyper-V deployments, so you'll get to know this next and how it differs from VMware's vCenter solution, as well as how to manage a mixed environment including both vSphere and Hyper-V deployments. Like any server migration, a virtual server migration requires careful planning to ensure success. You'll find information here on the specifics of migrating from vSphere to Hyper-V, planning for down time, IP address differences, performance considerations, and more. For migrations to Hyper-V, SCVMM is once

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again the preferred tool, but you'll also be introduced to some of the excellent free tools available. One easily overlooked aspect of the migration process is the way in which it impacts your backup and recovery strategy. Knowing the best practices here can help you protect your Hyper-V environment. The book also covers how to monitor and maintain your Hyper-V environment once it's up and running, using features like Cluster-Aware Updating, automated live migrations, and availability sets. The concluding chapter shows you how to take advantage of the efficiencies provided by virtual machine libraries and templates. Approach Hyper-V with confidence, and the knowledge that you've planned for success, with Hyper-V for VMware Administrators. 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

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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!

This is an excellent handbook for system administrators, support professionals, or for anyone intending to give themselves a headstart in learning how to install, configure, and manage a vSphere environment. It is also a good task-oriented reference guide for consultants or infrastructure architects who design and deploy vSphere environments. A step-by-step tutorial covering all components of the View Horizon suite in detail, to ensure that you can utilize all features of the platform, and discover all of the possible ways that it can be used within your own environment. If you are a newcomer in system administration, and you wish to implement a small to midsized Horizon View environment, then this book is for you. It will also benefit individuals who wish to administrate and manage Horizon View more efficiently or are studying for the VCP5-DT.

Master vSphere automation with this comprehensive reference VMware vSphere PowerCLI Reference, Automating vSphere Administration, 2nd Edition is a one-stop solution for vSphere automation. Fully updated to align with the latest vSphere and PowerCLI release, this detailed guide shows you how to get the most out of PowerCLI's handy cmdlets using real-world examples and a practical, task-based approach. You'll learn how to store, access, update, back up, and secure massive amounts of data

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quickly through the power of virtualization automation, and you'll get acquainted with PowerCLI as you learn how to automate management, monitoring, and life-cycle operations for vSphere. Coverage includes areas like the PowerCLI SDK, SRM, vCOPS, and vCloud Air. Plus guidance toward scheduling and viewing automation, using DevOps methodology and structured testing and source control of your PowerCLI scripts. Clear language and detailed explanations make this reference the manual you've been looking for. This book is your complete reference for managing vSphere in a Windows environment, with expert instruction and real-world application. Automate vCenter Server deployment and configuration Create and configure virtual machines, and utilize vApps Monitor, audit, and report the status of your vSphere environment Secure, back up, and restore your virtual machines Work with other vSphere components from your PowerCLI scripts Take control of your PowerCLI scripts through versioning and structured testing Don't spend another day slogging through routine systems management — automate it, with this invaluable guide.

Lay the foundations for data center virtualization using VMware vSphere 6 and strengthen your understanding of its power About This Book Learn how server virtualization is achieved and how a virtual infrastructure is built using VMware's products and solutions. Design to create a scalable and responsive virtualization platform for hosting the virtual machine workloads of a business. Manage compute, network and storage resources of a virtual infrastructure. Relevant conceptual

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diagrams, flowcharts and screen-captures enable in-depth comprehension of the concepts. Also, the concise writing style makes this book a very easy read. Who This Book Is For This is a book for any experienced technologist who is new to the realm of Data Center virtualization wanting to find a way to get a head start in learning how to design, implement and manage a modern day datacenter virtualized using VMware's core infrastructure solutions. It could also act a comprehensive reference guide for Infrastructure Architects and System Administrators to aid them in their day to day activities. This book could easily find its place in reference materials used by professionals for VCP and VCAP certification exams. Keep in mind however that the book is not written to follow as a blueprint for either of the exams. What You Will Learn Understand the architecture of the hypervisor and learn how to install deploy and configure ESXi hosts Find out what forms a VMware Virtual Machine can take and also learn how to create and manage them Familiarize yourself with the concepts of vSphere Storage and learn how to present and manage storage in a vSphere environment Create and manage software switching constructs such as the vNetwork Standard Switch and vNetwork Distributed Switches Monitor the performance of a vSphere environment using tools such as the vCenter Performance Graphs and 'esxtop' Manage SSL certificates in a vSphere environment Upgrade and patch a vSphere environment using vSphere Update Manager In Detail Computer virtualization is a method to enable the running of multiple application workloads on a machine to

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achieve efficient utilization and reduce the number of physical machines in a data center. This has now become the foundation of many modern day data centers. What began as a technology to virtualize x86 architecture has now grown beyond the limits of a server's hardware and into the realm of storage and network virtualization. VMware is currently the market leader in developing data center virtualization solutions. This book goes into the details of designing and implementing VMware solutions that form the foundation of a VMware infrastructure. The book begins by introducing you to the concepts of server virtualization followed by the architecture of VMware's hypervisor – ESXi and then by its installation and configuration. You then learn what is required to manage a vSphere environment and configure advanced management capabilities of vCenter. Next you are taken through topics on vSphere Networking, Storage, ESXi Clustering, Resource Management and Virtual Machine Management. You will then be introduced to SSL Certificate Management and its use in a vSphere environment. Finally, you will learn about the lifecycle management of a vSphere environment by effectively monitoring, patching and upgrading vSphere components using Update Manager. By the end of the book, you will know how to use VMware's vSphere suite of components to lay the foundation of a modern day virtual infrastructure. Style and approach This is an easy-to-follow guide that will give you everything you need to fully understand the concepts involved in data center virtualization. The screenshots, concept diagrams, and flowcharts included will help you understand the subjects

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discussed better.

Master vSphere 6 virtualization with hands-on practice and bonus preview exams VCP6-DCV: VMware Certified Professional-Data Center Virtualization on vSphere 6 Study Guide is your ultimate guide to preparing for exam 2V0-621. This Study Guide provides 100% coverage of all exam objectives and offers a unique set of study tools including assessment tests, objective map, real-world scenarios, hands-on exercises, and much more so you can be confident come exam day. You will also receive access to the superior Sybex interactive online learning environment that provides additional study tools including electronic flashcards and bonus practice exams. More than just a study guide, this book bridges the gap between exam prep and real-world on the job skills by focusing on the key information VMware professionals need to do the job. You'll master the vCenter Server and ESXi from planning and installation through upgrade and security, and develop an in-depth understanding of vSphere networking and storage, vApp deployment, service level establishment, troubleshooting, monitoring implementation, and so much more. Study 100% of exam 2V0-621 objectives Practice your skills with hands-on exercises Gain professional insight from real-world scenarios Test your understanding with review questions, practice tests, and more Virtualization is the number-one IT priority for organizations across public and private sectors, and VMware is the dominant force in the virtualization space. The VCP6-DCV certification gives you a highly marketable credential in terms of employment, but first you must pass this challenging exam. VCP6-DCV gives you the power of Sybex exam prep and the skills you need to excel at the job. This IBM® Redpaper™ publication describes best practices for deploying IBM FlashSystem™ V9000 enterprise storage system in a VMware vSphere environment. It

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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.

Enterprise Applications Administration prepares you for the full breadth of work associated with administering large enterprise applications. This book provides essential information on tasks such as operating systems administration, network design, system architecture, project planning, working within a team, protecting the network, and how to keep applications up and running. The book effectively bridges the gap between what is taught in the technology-specific literature and the real world of enterprise application administrators. Provides a general understanding of all key knowledge areas needed by enterprise application administrators Bridges the gap between technology-specific literature and the actual work being performed by enterprise application administrators Shows how to define and standardize processes and documentation to make enterprise application administration easier and more consistent "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

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presentation of potential opportunities, prospective solutions, and future directions in the field of information science and technology"--Provided by publisher.

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