

## Vcenter Operations User Guide

IBM® Tivoli® Storage Productivity Center V5.2 is a feature-rich storage management software suite. The integrated suite provides detailed monitoring, reporting, and management within a single console. In addition, implementing the IBM SmartCloud® Virtual Storage Center (VSC) license with Tivoli Storage Productivity Center addresses new workloads that require massive scale and rapid pace, and accelerates business insight, by adding advanced analytics functions such as storage optimization, provisioning, and transformation. This IBM Redbooks® publication is intended for storage administrators and users who are installing and using the features and functions in IBM Tivoli Storage Productivity Center V5.2. The information in this Redbooks publication can be used to plan for, install, and customize the components of Tivoli Storage Productivity Center in your storage infrastructure. Note: This IBM Redbooks publication is written and based on Tivoli Storage Productivity Center V5.2.2. Sections in this book that pertain to advanced analytics, including cloud configuration, provisioning, transforming volumes, and storage optimization all require the IBM SmartCloud Virtual Storage Center license to be installed. This book features stepbystep guides as well as practical, realworld examples, exploiting the premise that there's never just one way to narrow down problems. It tackles scenarios by going through different workflows to find the answers you need. This book is for administrators, engineers, and architects of VMware

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vSphere as well as those who have or are interested in purchasing the vCenter Operations Manager Suite. It will particularly help administrators who are hoping to use vCenter Operations Manager to optimize their VMware environments as well as quickly troubleshoot both longterm and shortterm issues.

The book is designed for the competent vCenter administrator or anyone who is responsible for the vSphere environment. It can be used as a guide by vSphere architects and VMware consultants for a successful vSphere solution. You should have good knowledge and an understanding of core elements and applications of the vSphere environment.

This book is a practical, hands-on guide that will help you learn everything you need to know to administer your environment with VMware vCenter Server. Throughout the book, there are best practices and useful tips and tricks which can be used for day-to-day tasks. If you are an administrator or a technician starting with VMware, with little or no knowledge of virtualization products, this book is ideal for you. Even if you are an IT professional looking to expand your existing environment, you will be able to use this book to help you improve the management of these environments. IT managers will find it helpful in terms of improving cost efficiency, ensuring required levels of service and utilising its excellent reporting abilities.

The IBM® Distributed Virtual Switch 5000V (DVS 5000V) is a software-based network switching solution that is designed for use with the virtualized network resources in a VMware enhanced data center. It works with

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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 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

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tandem with VMware.

IBM FlashSystem V9000 and VMware Best Practices Guide IBM Redbooks

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

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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 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.

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

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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

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

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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 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

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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.

This IBM® Redbooks® publication describes the new features that have been added with the release of the IBM System Storage® SAN Volume Controller (SVC) and IBM System Storage Storwize® V7000 6.4.0 code, including Replication Family Services. Replication Family Services refers to the various copy services available on the SVC and Storwize V7000 including IBM FlashCopy®, Metro Mirror and Global Mirror, Global Mirror with Change Volumes, Volume Mirroring, and Stretched Cluster Volume Mirroring. The details behind the theory and practice of these services are examined, and SAN design suggestions and troubleshooting tips are provided. Planning requirements, automating copy services processed, and fabric design are explained. Multiple examples including implementation and server integration are included, along with a discussion of software solutions and services that are based on Replication Family Services. This book is intended for use by pre-sales and post-sales support, and storage administrators. Readers are expected to have an advanced knowledge of the SVC, Storwize V7000, and the SAN environment. The following publications are useful resources that provide

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background information: Implementing the IBM System Storage SAN Volume Controller V6.3, SG24-7933 Implementing the IBM Storwize V7000 V6.3, SG24-7938 IBM SAN Volume Controller and Brocade Disaster Recovery Solutions for VMware, REDP-4626 IBM System Storage SAN Volume Controller Upgrade Path from Version 4.3.1 to 6.1, REDP-4716 Real-time Compression in SAN Volume Controller and Storwize V7000, REDP-4859 SAN Volume Controller: Best Practices and Performance Guidelines, SG24-7521 Implementing the Storwize V7000 and the IBM System Storage SAN32B-E4 Encryption Switch, SG24-7977

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 Vandenbeld and Jonathan

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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

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[www.vmware.com/training](http://www.vmware.com/training). ¿

The first book in the IT Architect series helps aspiring & experienced IT infrastructure architects/administrators, and those pursuing infrastructure design certifications, establish a solid foundation in the art of infrastructure design. The three autho

If you want a more detailed explanation concerning the implementation of several different core features of VMware Horizon View, this is the book for you. Whether you are new to VMware Horizon View or an existing user, this book will provide you with the knowledge you need to successfully deploy several core features and get introduced to the latest features of version 6.0 as well.

The 3-volume set LNCS 9169, 9170, 9171 constitutes the refereed proceedings of the 17th International Conference on Human-Computer Interaction, HCII 2015, held in Los Angeles, CA, USA, in August 2015. The total of 1462 papers and 246 posters presented at the HCII 2015 conferences was carefully reviewed and selected from 4843 submissions. These papers address the latest research and development efforts and highlight the human aspects of design and use of computing systems. The papers in LNCS 9171 are organized in topical sections on interaction and quality for the web and social media; HCI in business, industry and innovation; societal and cultural impact of

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technology; user studies.

This IBM® Redpaper™ publication describes the support of the IBM System Storage® DS8870 for VMware vSphere in general terms. It also describes in greater detail the VMware vSphere Storage APIs Array Integration (VAAI) primitives, the IBM Storage Management Console for VMware plug-in, and the IBM Site Replication Adapter (SRA) for VMware Site Recovery Manager (SRM). In addition to a high-level overview of the VMware vSphere suite, this paper emphasizes the interaction of the software components with the IBM System Storage DS8870. It is intended for IT professionals who want an understanding of advantages such as off loading specific tasks to storage arrays, centralized service management, and simplified implementation of disaster recovery processes in virtualized environments.

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

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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

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

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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](http://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

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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.

Manage vRealize operations manager 6.6 effectively using this comprehensive guide. Key Features Get complete control of capacity management in your virtual environment Display the most appropriate performance metrics and assemble your own dashboard Analyze and process data from different sources into a single repository Optimize vRealize Automation workload placement Book Description In the modern IT world, the criticality of managing the health, efficiency, and compliance of virtualized environments is more important than ever. With vRealize Operations Manager 6.6, you can make a difference to your business by being reactive rather than proactive. Mastering vRealize Operations Manager helps you streamline your processes and customize the environment to suit your needs. You will gain visibility across all devices in the network and retain full control. With easy-to-follow, step-by-step instructions and support images, you will quickly master the ability to manipulate your data and display it in a way that best suits you and your business or technical requirements. This book not only covers designing, installing, and upgrading vRealize Operations 6.6, but also gives you a deep understanding of its building blocks: badges, alerts, super metrics, views, dashboards, management packs, and plugins. With the new vRealize Operations 6.6 troubleshooting capabilities, capacity

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planning, intelligent workload placement, and additional monitoring capabilities, this book is aimed at ensuring you get the knowledge to manage your virtualized environment as effectively as possible. What you will learn Discover advanced vRealize Operations concepts and design your processes effectively for the underlying architecture Plan and install a new version or upgrade from a previous one Apply proven capacity management theories and techniques in practical, real-world environments Manipulate data and metrics to display them in the most effective way possible Create custom views and dashboards fit for any use case Explore how policies have evolved in vRealize Operations 6.6 and how to apply them in the most effective manner Who this book is for If you are an administrator of a virtual environment and have used vRealize Operations before but want to gain a professional understanding by easily implementing complex tasks with it, then this book is for you.

The success or failure of businesses often depends on how well organizations use their data assets for competitive advantage. Deeper insights from data require better information technology. As organizations modernize their IT infrastructure to boost innovation rather than limit it, they need a data storage system that can keep pace with highly virtualized environments, cloud computing, mobile and social systems of engagement, and in-depth, real-time analytics. Making the correct decision on storage investment is critical. Organizations must have enough storage performance and agility to innovate as they need to implement cloud-based IT services, deploy virtual desktop infrastructure, enhance fraud detection, and use new analytics capabilities. At the same time, future storage investments must lower IT infrastructure costs while helping organizations to derive the greatest possible value from their data assets. The IBM® FlashSystem V9000 is the premier, fully integrated, Tier 1, all-flash offering

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from IBM. It has changed the economics of today's data center by eliminating storage bottlenecks. Its software-defined storage features simplify data management, improve data security, and preserve your investments in storage. The IBM FlashSystem® V9000 SAS expansion enclosures provide new tiering options with read-intensive SSDs or nearline SAS HDDs. IBM FlashSystem V9000 includes IBM FlashCore® technology and advanced software-defined storage available in one solution in a compact 6U form factor. IBM FlashSystem V9000 improves business application availability. It delivers greater resource utilization so you can get the most from your storage resources, and achieve a simpler, more scalable, and cost-efficient IT Infrastructure. This IBM Redbooks® publication provides information about IBM FlashSystem V9000 Software V7.7 and introduces the recently announced V7.8. It describes the product architecture, software, hardware, and implementation, and provides hints and tips. It illustrates use cases and independent software vendor (ISV) scenarios that demonstrate real-world solutions, and also provides examples of the benefits gained by integrating the IBM FlashSystem storage into business environments. This book offers IBM FlashSystem V9000 scalability concepts and guidelines for planning, installing, and configuring, which can help environments scale up and out to add more flash capacity and expand virtualized systems. Port utilization methodologies are provided to help you maximize the full potential of IBM FlashSystem V9000 performance and low latency in your scalable environment. This book is intended for pre-sales and post-sales technical support professionals, storage administrators, and anyone who wants to understand how to implement this exciting technology.

Harness the power of VMware vRealize Operations to efficiently manage your IT infrastructure About This Book Extract the optimum performance, availability, and capacity of

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your IT infrastructure with the help of vRealize Operations Manager Leverage the power of strategic reports to drive tactful decision-making within the IT department A pragmatic guide to proficiently manage your applications and storage Who This Book Is For If you are a vSphere administrator and wish to optimize your virtual environment, this book is your go-to guide on vRealize Operations. As a vSphere administrator, it is assumed that you have a good understanding of both physical and virtual infrastructure. A basic knowledge of application monitoring and log analysis would be useful when we dive into the capabilities of the solution. What You Will Learn Architect, design, and install vRealize Operations Migrate from the previous vCenter Operations Manager 5.x version, configure vR Ops policies, and create custom groups Use out-of-the-box Dashboards, Views, and Reports and create your own customized Dashboards, Views, and Reports Apply the Alerting framework of Symptoms, Recommendations, and Actions, and create your own Alerting content Leverage the power of Capacity Planning to maximize the utilization of your virtual infrastructure Manage the rest of your infrastructure, including storage and applications, with vRealize Operations Management Packs Extend the solution with vRealize Hyperic and Log Insight In Detail This book will enable you to deliver on the operational disciplines of Performance, Health, Capacity, Configuration, and Compliance by making the best use of solutions provided by vRealize Operations. Starting with architecture, design, and sizing, we will ensure your implementation of vRealize Operations is a success. We will dive into the utilization of a solution to manage your vSphere infrastructure. Then, we will employ out-of-the-box Dashboards and the very powerful Views and Reporting functionality of vRealize Operations to create your custom dashboards and address your reporting requirements. Next, we go through the Alerting framework

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and how Symptoms, Recommendations, and Actions are used to achieve efficient operations. Later you will master the topic of Capacity Planning, where we look at how important it is to craft appropriate policies to match your requirements, and we'll consider attitude toward capacity risk, which will aid you to build future project requirements into your capacity plans. Finally, we will look at extending the solution to manage Storage, Applications, and other IT infrastructures using Management Packs from Solution Exchange, as well as how the solution can be enhanced with the integration of Log Insight. Style and approach This book is a pragmatic, step-by-step guide that will quickly build your knowledge of the key capabilities of vRealize Operations. As well as learning about the solution, we will provide you with real-world examples that will help you customize and enhance your virtual environment.

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,

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bonus practice exams, and electronic flashcards If you want the best preparation for the VCP5-DCV exam, this is the study guide you need.

This concise guide follows a practical approach, covering solutions and methods to manage resources for virtualization. If you are a current vSphere administrator who is aspiring to start your virtualization journey with VMware vSphere and wants to learn how to manage your resources, this is the book for you. Readers are expected to have some prior knowledge of ESXi and vCenter.

Today, new business models in the marketplace coexist with traditional ones and their well-established IT architectures. They generate new business needs and new IT requirements that can only be satisfied by new service models and new technological approaches. These changes are reshaping traditional IT concepts. Cloud in its three main variants (Public, Hybrid, and Private) represents the major and most viable answer to those IT requirements, and software-defined infrastructure (SDI) is its major technological enabler. IBM® technology, with its rich and complete set of storage hardware and software products, supports SDI both in an open standard framework and in other vendors' environments. IBM services are able to deliver solutions to the customers with their extensive knowledge of the topic and the experiences gained in partnership with clients. This IBM Redpaper™ publication focuses on software-defined storage (SDS) and IBM Storage Systems product offerings for software-defined environments (SDEs). It also provides use case examples across various industries that cover different client needs, proposed solutions, and results. This paper can help you to understand current organizational capabilities and challenges, and to identify specific business objectives to be achieved by implementing an SDS solution in your enterprise.

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Describes scripting techniques that use both ESX and Linux commands to manage a virtual infrastructure.

The Publisher regrets that the CD/DVD content for this title cannot be made available Online. 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 VCP550 exam topics · Assess your knowledge with chapter-opening quizzes · Review key concepts with exam preparation tasks · Practice with realistic exam questions on the DVD This is the eBook edition of the VCP5-DCV Official Certification Guide. This eBook does not include the companion DVD with practice exam that comes with the print edition. VCP5-DCV Official 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. Well regarded for its level of detail, assessment features, comprehensive design scenarios, and challenging

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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 VCP550 exam. Key topics include - Installing, upgrading, and securing all the key components in your vSphere, including ESXi hosts, vCenter, datastores, and network components - Networking components in vSphere, including vSphere standard switch and vSphere distributed switch concepts - Configuring and managing all forms of storage, including Fibre Channel, iSCSI, and network-attached storage - Creating, configuring, and managing virtual machines and vApps - Keeping your vSphere running smoothly and recovering quickly from any failure, including services that improve overall utilization and recoverability - Identifying the key components of your vSphere and how they work together - Understanding the “core four” resources in any computer system: CPU, memory, disk, and network - Preparing to schedule, take, and pass the VCP550 test VCP5-DCV Official 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

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[www.vmware.com/training](http://www.vmware.com/training).

Filled with practical, step-by-step instructions and clear explanations for the most important and useful tasks. This is a Packt Instant How-to guide, which provides concise and clear recipes for getting started with setting up the VDI in different environments. Instant VMware View 5 Virtualization How-to is for architects, solution providers, consultants, engineers, and anyone planning to design and implement a solution based on VMware View 5.

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

Enhance your virtualization skills by mastering storage and network virtualization with automation across different Clouds Key Features Migrate and build your applications in Hybrid Cloud with VMware Cross Cloud components and services Gain in-depth configuration insights of VMware Cross Cloud architecture Learn to migrate applications from VMware to AWS and IBM Cloud Book Description Over the past two decades, VMware vSphere has been known as the most trusted and reliable virtualization platform. VMware Cross-Cloud

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Architecture shows you how to design and configure Cross Cloud Architecture by using VMware Cloud Foundation and vRealize Suite with various use cases across private, public, and hybrid Cloud. This book takes you through everything from a basic understanding of virtualization to advanced aspects of storage and network virtualization, clustering, automation, and management. This book will be your guide to designing all aspects of Cloud. We start with the challenges faced by a traditional data center, define problem statements for you, and then brief you on respective solutions. Moving on, all kinds of virtualization and Cloud offerings from AWS and IBM Soft Layer are introduced and discussed in detail. Then, you'll learn how to design IT infrastructures for new and existing applications with a combination of Cloud Foundation, vRealize Suite, and vSphere enabled with VSAN and NSX. Furthermore, you'll learn how to design and configure high availability, disaster recovery, and apply an appropriate compliance matrix. Toward the end of the book, you will learn how to calculate the TCO/ROI, along with the VMware products packaging and licensing in detail. What you will learn

- Install and configure the Cloud foundation with Cross-Cloud services
- Configure vSphere high availability with the vCenter redundancy setup
- Architect and configure VMware with AWS Cloud Deploy
- VMware components in IBM Soft Layer
- Extend your DR setup with VMware to

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

Deploy Microsoft Virtualization and VDI solutions using real-world Hyper-V configurations About This Book Get acquainted with the basics of Windows Server Hyper-V 2012 R2 and understand how to efficiently design a highly available virtualization solution Assess your physical server environment and understand the fundamentals of server consolidation and sizing of Hyper-V hosts Design practical solutions for common design patterns with explanations of these design decisions Who This Book Is For This book is aimed at IT admins, consultants, and architects alike who wish to deploy, manage, and maintain Hyper-V solutions in organizations of various sizes. Readers are expected to have a working knowledge of managing Windows Servers and a fair understanding of networking and storage concepts. What You Will Learn Set up independent and highly available clustered Hyper-V hosts via GUI and PowerShell Acquire knowledge about Generation 1 and 2 Virtual Machines, their creation and management, and also

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look at the VM Conversion process Understand NIC Teaming, Extensible Virtual Switch, and other networking advancements Gain insight into virtual machine storage changes and its follow-up benefits Discover backup and recovery patterns for Hyper-V Familiarize yourself with the essentials of Hyper-V Replica Leverage the benefits of Microsoft VDI In Detail The IT community has already experienced the benefits of server virtualization. However, they were limited to one option primarily until Microsoft released its flagship Hypervisor platform. Windows Server Hyper-V 2012 and R2 along with Hyper-V Server 2012 and R2 present a cost effective yet robust virtualization solution to enterprises who wish to consolidate their physical server workloads or migrate their pre-existing VMware workloads to Hyper-V. Hyper-V has proven to be a stable and an economical virtualization solution and with its high availability, live migration, and new network virtualization and storage enhancement features, enterprises will never feel the need to consider another alternative. This book is a practical, example-oriented tutorial that will guide you through the basics and architecture of the Hyper-V platform and thereafter help you understand how to build your Virtualization infrastructure from the ground up. The book then goes on to focus on scalability and high availability aspects and trains you in setting up highly available Hyper-V clusters and the live migration of

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virtual machines. You will also learn about the advancements in virtual networking and storage in Windows Server 2012. After the implementation guidance, the book then advises you on how to set up backup and recovery and how to prepare a disaster recovery plan via Hyper-V Replica. The book concludes with a good insight into Microsoft VDI implementation guidance. Style and approach This is a handy and easy-to-follow guide that describes virtualization concepts and the Hyper-V design approach. Each topic is explained sequentially and is enhanced with real-world scenarios, practical examples, screenshots, and step-by-step explanations to help readers understand clearly.

Prepare for the VCP-DCV Exam Prepare yourself for VMware's challenging VMware Certified Professional-Data Center Virtualization exam, as well as the typical tasks and responsibilities you can expect as a VMware vSphere 5.5-certified professional. This comprehensive book guides you through all topics and objectives you'll need to know for the exam. These include planning, installing, upgrading, and securing vCenter Server and ESXi; configuring networking and storage; performing basic troubleshooting; and more. You'll also gain access to premium online practice and review tools. Prepares certification candidates for the VMware Certified Professional-Data Center Virtualization exam (VCP-

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DCV) Covers all exam objectives Features real-world scenarios, hands-on exercises, and challenging review questions Explores key topics such as securing vCenter and ESXi, planning and configuring vSphere networking and storage, creating and deploying virtual machines and vApps, establishing services levels, and more Includes access to online practice exams, flashcards, and other study tools If you want the best preparation for the VCP-DCV certification exam, you'll want VCP-DCV VMware Certified Professional Data Center Virtualization on vSphere Study Guide.

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

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understanding and retention of exam topics. The VCAP5-DCA Official Cert Guide is part of a recommended learning path from VMware that includes simulation and hands-on training from authorized VMware instructors and self-study products from VMware Press. To find out more about instructor-led training, e-learning, and hands-on instruction offered worldwide, please visit [www.vmware.com/training](http://www.vmware.com/training).

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

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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

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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® 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.

- This is the latest practice test to pass the 5V0-33.19 VMware Cloud on AWS - Master Services Competency Specialist Exam. - It contains 51 Questions and Answers. - All the questions are 100% valid and stable. - You can rely on this practice test to pass the exam with a good mark and in the first attempt.

Now fully updated for the new Cisco CAPPS 300-085 exam, Implementing Cisco Collaboration Applications (CAPPS) Foundation Learning Guide is your Cisco® authorized learning tool for CCNP®

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Collaboration preparation. Part of the Cisco Press Foundation Learning Series, it teaches advanced skills for designing, deploying, configuring, and troubleshooting Cisco Collaboration and Unified Communications applications, devices, and networks. Author Chris Olsen shows how to effectively use Cisco Unity Connection, Cisco Unity Express, Cisco Instant Message and Presence, Cisco TelePresence Video Communication Server, and Cisco TelePresence Management Suite in production environments. He begins by introducing the server platforms and overlays that are the basis for all Cisco Unity Connection design and integration. Next, he presents in-depth coverage of a wide range of essential tasks—from user configuration to voicemail redundancy, configuring Cisco Jabber Mobile, to provisioning Cisco Prime Collaboration. Each chapter opens with a list of topics that clearly identifies its focus. Each chapter ends with a summary of key concepts for quick study, as well as review questions to assess and reinforce your understanding. Throughout, configuration examples and sample verification outputs illustrate critical issues in network operation and troubleshooting. Whether you are preparing for the CCNP Collaboration certification exams or you are just interested in learning about how to deploy and operate Cisco collaboration applications, you will find this book to be an invaluable resource. Shows

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how to integrate Cisco Unity Connection with Cisco Unified Communications Manager or other PBXs Covers configuring Cisco Unity Connection users, templates, service classes, distribution lists, security, LDAP, dial plans, and call management Walks through Unified Messaging single Inbox configuration Shows how to design, integrate, and configure feature-rich branch office messaging solutions with Cisco Unity Express Explains Cisco Unified IM and Presence components, design, integration, deployment, and feature configuration Covers Cisco Jabber and Cisco Jabber Mobile configuration Guides you through deploying Cisco Collaboration Systems Applications with Cisco Prime Collaboration Introduces Cisco TelePresence Management Suite (Cisco TMS) capabilities and scheduling options This book is in the Foundation Learning Guide Series. These guides are developed together with Cisco® as the only authorized, self-paced learning tools that help networking professionals build their understanding of networking concepts and prepare for Cisco certification exams. [Copyright: 911290fc96175ef0618077d9e7f67754](#)