

# VMware Server User Guide

VMware VI and vSphere SDK  
VMware Certified Professional Test Prep  
VMware vSphere For Dummies  
Mastering VMware vSphere 5.5  
Virtualizing SQL Server with VMware  
Mastering VMware vSphere 6  
CCNA Data Center DCICT 640-916 Official Cert Guide  
Adapting to Dynamic Heterogeneity  
Using Storage Area Networks  
Deploying IBM FlashSystem V840  
Storage in a VMware and Cloud Environment  
VMware Cookbook  
Tivoli Storage Manager for Virtual Environments - Data Protection for VMware  
Deployment Guide  
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VCP VMware Certified Professional on vSphere 4 Study Guide  
Essential Virtual SAN  
The Complete VMware vSphere Guide  
Scripting VMware Power Tools: Automating Virtual Infrastructure Administration  
VCP VMware Certified Professional on vSphere 4 Review Guide  
DevOps for VMware Administrators  
Cisco Unified Computing System (UCS) (Data Center)  
VMware vSphere Design  
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IBM DS8870 and VMware Synergy  
VCP5 VMware Certified Professional on vSphere 5 Study Guide  
Rob's Guide to Using VMware  
VMware vSphere PowerCLI Reference  
Learning VMware vSphere  
Mastering VMware vSphere 6.7  
Virtualization For Dummies  
VCP VMware Certified Professional vSphere 4 Study Guide (Exam VCP410)  
Mastering VMware vSphere 6.7  
VMware vCloud Architecture Toolkit (vCAT)  
NetApp and VMware View Solution Guide  
Learning PowerCLI  
vSphere 6 Foundations Exam Official Cert Guide (Exam #2V0-620)  
Critical Infrastructure Protection III  
MCSA Windows Server 2012 R2 Configuring Advanced Services Study

## Where To Download VMware Server User Guide

GuideProfessional VMware ServerWindows Server 2012 Hyper-V Installation and Configuration GuideVMware ESX Server

### **VMware VI and vSphere SDK**

A guide to VMware Server covers such topics as installation, creating development base images, organizing image libraries, using VmCOM, and integrating VMServer into an existing environment.

### **VMware Certified Professional Test Prep**

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

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vSphere environment Covers installation, deployment, management, maintenance, and troubleshooting Provides what IT managers and system administrators need to roll out their first virtualized or cloud infrastructure, or to get up to speed on VMware's technology Get up and running on the cloud with VMware vSphere For Dummies!

### **VMware vSphere For Dummies**

Cut hardware costs, expand your capacity, and manage an entire fleet of virtual machines in your enterprise with the leading virtualization solution, VMware Infrastructure 3 (VI3), by applying the step-by-step instructions in Mastering VMware® Infrastructure 3. Packed with the technical details, best practices, and how-tos you need to install, configure, and run a virtual infrastructure at maximum efficiency, this guide is comprehensive and essential. Learn how to create and manage virtual networks and machines, configure every product in the VI3 suite, monitor resources and performance, maintain security, and much more.

### **Mastering VMware vSphere 5.5**

The second edition of Rob's Guide to Using VMWare continues where the author stopped with the first edition. New topics covered in the book are VMWare ACE and

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VMWare GSX Server. The book now also contains information on VMWare and Linux. This new edition features an overview of the new version 5 of VMWare Workstation. Many topics which were included in the first edition have been updated.

### **Virtualizing SQL Server with VMware**

A guide to ESX server covers such topics as virtualization, hardware allocation, server sizing, security, and backup.

### **Mastering VMware vSphere 6**

CCNA Data Center DCICT 640-916 Official Cert Guide CCNA Data Center DCICT 640-916 Official Cert Guide from Cisco Press enables you to succeed on the exam the first time and is the only self-study resource approved by Cisco. A team of leading Cisco data center experts shares preparation hints and test-taking tips, helping you identify areas of weakness and improve both your conceptual knowledge and hands-on skills. This complete, official study package includes --A test-preparation routine proven to help you pass the exam --“Do I Know This Already?” quizzes, which enable you to decide how much time you need to spend on each section --Part-ending exercises, which help you drill on key concepts you

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must know thoroughly --The powerful Pearson IT Certification Practice Test software, complete with hundreds of well-reviewed, exam-realistic questions, customization options, and detailed performance reports --Study plan suggestions and templates to help you organize and optimize your study time --A final preparation chapter that guides you through tools and resources to help you craft your review and test-taking strategies Well regarded for its level of detail, study plans, assessment features, and challenging review questions and exercises, this official study guide helps you master the concepts and techniques that ensure your exam success. The official study guide helps you master topics on the CCNA Data Center DCICT 640-916 exam, including --Cisco data center concepts: architectures, devices, layers, modular design, vPC, FabricPath, Cisco Nexus switches, and more --Data center unified fabric: FCoE, multihop, VIFs, FEX, and setup --Storage networking: concepts, targets, verification, connectivity, zoning, setup, and configuration --Data center virtualization: servers, devices, and Nexus 1000V, including setup and operations --Cisco Unified Computing: concepts, discovery, connectivity, setup, and UCSM --Data center network services: ACE load balancing, virtual context, HA, management, global/local solutions, and WAAS The CD-ROM contains more than 450 practice questions for the exam, memory table exercises and answer keys, and a study planner tool. Includes Exclusive Offer for 70% Off Premium Edition eBook and Practice Test Pearson IT Certification Practice Test minimum system requirements: Windows XP (SP3), Windows Vista (SP2), Windows 7, or Windows 8; Microsoft .NET Framework 4.0 Client; Pentium class 1GHz

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processor (or equivalent); 512 MB RAM; 650 MB disk space plus 50 MB for each downloaded practice exam; access to the Internet to register and download exam databases

### **CCNA Data Center DCICT 640-916 Official Cert Guide**

Achieve the performance, scalability, and ROI your business needs What can you do at the start of a virtualization deployment to make things run more smoothly? If you plan, deploy, maintain, and optimize vSphere solutions in your company, this unique book provides keen insight and solutions. From hardware selection, network layout, and security considerations to storage and hypervisors, this book explains the design decisions you'll face and how to make the right choices. Written by two virtualization experts and packed with real-world strategies and examples, VMware vSphere Design, Second Edition will help you design smart design decisions. Shows IT administrators how plan, deploy, maintain, and optimize vSphere virtualization solutions Explains the design decisions typically encountered at every step in the process and how to make the right choices Covers server hardware selection, network topology, security, storage, virtual machine design, and more Topics include ESXi hypervisors deployment, vSwitches versus dvSwitches, and FC, FCoE, iSCSI, or NFS storage Find out the "why" behind virtualization design decisions and make better choices, with VMware vSphere Design, Second Edition, which has been fully updated for vSphere 5.x.

### **Adapting to Dynamic Heterogeneity**

The Best Fully Integrated Study System Available With hundreds of practice questions and hands-on exercises, VCP VMware Certified Professional vSphere 4 Study Guide covers what you need to know--and shows you how to prepare--for this challenging exam. 100% complete coverage of all official objectives for exam VCP410 Inside the Exam sections in every chapter highlighting key exam topics covered Two-minute drills for quick review at the end of every chapter Simulated exam questions match the format, tone, topics, and difficulty of the real exam Covers all the exam topics, including: vSphere \* Server Virtualization and the VMware Product Line \* Installing, Upgrading, and Configuring ESX Server \* Installing and Configuring vCenter Server \* Understanding Networking and Virtual Switches on ESX/ESXi Servers \* Understanding and Configuring Storage on ESX/ESXi Servers \* Creating, Deploying, and Managing Virtual Machines and vApps \* Managing Compliance \* Establishing Service Levels \* Basic Troubleshooting and Alarm Management CD-ROM includes: Complete MasterExam practice testing engine, featuring: One full practice exam, Detailed answers with explanations, and Score Report performance assessment tool Flash card study deck Electronic book for studying on the go With free online registration: Bonus downloadable MasterExam practice test

### Using Storage Area Networks

VMware 2V0-620 and 2V0-621 exams retired in 2019. We are continuing to make this content available for those who wish to use it to study the foundational information it contains. vSphere 6 Foundations Exam Official Cert Guide (Exam #2V0-620) vSphere 6 Foundations Exam Official Cert Guide (Exam #2V0-620) presents you with an organized test-preparation routine through the use of proven series elements and techniques. “Do I Know This Already?” quizzes open each chapter and enable you to decide how much time you need to spend on each section. Exam topic lists make referencing easy. Chapter-ending Exam Preparation Tasks help you drill on key concepts you must know thoroughly. · Master VMware vSphere 6 Foundations Exam topics · Assess your knowledge with chapter-opening quizzes · Review key concepts with exam-preparation tasks · Practice with realistic exam questions vSphere 6 Foundations Exam Official Cert Guide (Exam #2V0-620) focuses specifically on the objectives for the vSphere 6 Foundations (#2V0-620) Exam. Leading VMware consultant and trainer Bill Ferguson shares preparation hints and test-taking tips, helping you identify areas of weakness and improve both your conceptual knowledge and hands-on skills. Material is presented in a concise manner, focusing on increasing your understanding and retention of exam topics. The companion website contains a powerful Pearson IT Certification Practice Test engine that enables you to focus on individual topic areas or take a complete, timed exam. The assessment engine tracks your performance and provides

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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 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

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Exam #2V0-620 can be taken as part of official preparation steps toward your 6.5 or 7.0 certifications.

### **Deploying IBM FlashSystem V840 Storage in a VMware and Cloud Environment**

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 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 automate

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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.

### **VMware Cookbook**

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

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

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

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

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

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, data centers, 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 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

### **VMware vSphere 5.5 Cookbook**

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

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reference guide for consultants or infrastructure architects who design and deploy vSphere environments.

### **VCP VMware Certified Professional on vSphere 4 Study Guide**

Virtualization has become a “megatrend”—and for good reason. Implementing virtualization allows for more efficient utilization of network server capacity, simpler storage administration, reduced energy costs, and better use of corporate capital. In other words: virtualization helps you save money, energy, and space. Not bad, huh? If you’re thinking about “going virtual” but have the feeling everyone else in the world understands exactly what that means while you’re still virtually in the dark, take heart. Virtualization for Dummies gives you a thorough introduction to this hot topic and helps you evaluate if making the switch to a virtual environment is right for you. This fun and friendly guide starts with a detailed overview of exactly what virtualization is and exactly how it works, and then takes you on a tour of the benefits of a virtualized environment, such as added space in overcrowded data centers, lower operations costs through more efficient infrastructure administration, and reduced energy costs through server consolidation. Next, you’ll get step-by-step guidance on how to: Perform a server virtualization cost versus benefit analysis Weigh server virtualization options Choose hardware for your server virtualization project Create a virtualized software environment Migrate to—and manage—your new virtualized environment Whether

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you're an IT manager looking to sell the idea to your boss, or just want to learn more about how to create, migrate to, and successfully manage a virtualized environment, *Virtualization for Dummies* is your go-to guide for virtually everything you need to know.

### **Essential Virtual San**

The complete vCAT printed reference: knowledge, tools, and validated designs for building high-value vCloud® solutions The vCloud Architecture Toolkit (vCAT) brings together validated designs, tools, and knowledge for architecting, implementing, operating, and consuming modern vCloud infrastructure based on the Software Defined Data Center (SDDC). vCAT has already helped hundreds of VMware customers succeed with vCloud. Now, pioneering VMware architect John Arrasjid has integrated essential vCAT information into a definitive printed guide, adding even more context and examples for successful planning and deployment. To do so, Arrasjid has distilled contributions from more than 100 VMware architects, consultants, administrators, engineers, project managers, and other technical leaders. VMware vCloud Architecture Toolkit (vCAT) is your complete roadmap for using virtualization to simplify data centers and related IT infrastructure. You'll find up-to-the-minute, field-proven insights for addressing a wide spectrum of challenges—from availability to interoperability, security to business continuity. Coverage includes vCAT design guidelines and patterns for

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efficiently architecting, operating, and consuming VMware cloud computing solutions Software-defined datacenter services for storage, networking, security, and availability People, process, and technology issues associated with effective vCloud operation and maintenance Efficient service consumption: consumption models, service catalogs, vApps, and service provider interactions Workflows to coordinate and automate task sequences, which extend beyond vCloud VMware vCloud Director® Server Resource Kit software tools Advanced “cloud bursting” and autoscaling techniques to dynamically leverage additional computing resources Planning and management of capacity, security, compliance, and disaster recovery

## **The Complete VMware vSphere Guide**

Written by VM-certified instructors with years of professional and teaching experience, VMware Certified Professional Test Prep is the ultimate guide to the VCP exam. Its organized and highly practical approach will help administrators successfully complete the exam while also maximizing their ability to apply this tool on the job. The guide covers the body of knowledge required of a VMware certified professional, provides the tools needed to keep that knowledge current, and helps develop the wherewithal to apply that knowledge to real solutions. Covering the ESX 3.0.x through ESX 3.5.x releases that are the focus of the VCP test, this volume: Reproduces many of the real-world examples that have proven

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very helpful to students in the authors' classrooms Applies step-by-step instructions to more than 700 software screenshots, providing a virtual hands-on experience Points to Web resources that will keep the reader current with the latest advances Includes logistical information on the test, including costs and class location Covers background information on various topics such as storage and networking to provide a complete understanding on the implementation of a VMWare VI3 solution Provides questions at the end of the chapters that cover the important concepts Also of great use to those administrators who have already received their certification, this book includes solutions to many of the common gotchas that they are certain to encounter in virtual environments. In particular, capacity-planning concepts reveal the specific details needed to make full use of VMware's unique resource management capabilities. Troubleshooting tips appear throughout the book, making it a useful resource in the virtualized datacenter.

## **Scripting VMware Power Tools: Automating Virtual Infrastructure Administration**

## **VCP VMware Certified Professional on vSphere 4 Review Guide**

Unleash the benefits of VMware vSphere 6.7 to provide a powerful, flexible and

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secure digital infrastructure Key Features Deep dive into areas like management, security, scalability, availability and more with vSphere 6.7 Design, deploy and manage VMware vSphere virtual datacenters Implement monitoring and security of VMware workloads with ease Book Description VMware vSphere provides a powerful, flexible and secure foundation for next-generation applications and datacenters that help you with your digital transformation efficiently. Mastering VMware vSphere, 6.7, Second Edition begins by covering an overview of all the products, solutions and features of the vSphere 6.7 suite, comparing the evolutions with the previous releases. You'll learn to design and plan a virtualization infrastructure to drive performance analysis and then proceed with the workflow and installation of components. Along with new network trends that will help you in optimally designing the vSphere environment, you will also learn the best practices involved in configuring and managing virtual machines in a vSphere infrastructure. With vSphere 6.7, you'll make use of more powerful capabilities for patching, upgrading and managing the configuration of the virtual environment. The concluding chapters focus on core vSphere components as storage and network and you will learn all you need about resource management followed by topics as high availability and disaster recovery, troubleshooting, monitoring and security. By the end the book you will discover different approaches on how to build your own VMware vSphere lab to help you run even the most demanding workloads What you will learn Get a deep understanding of vSphere 6.7 functionalities Design a virtualization environment based on VMware vSphere 6.7 Manage and administer

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a vSphere 6.7 environment and resources Get tips for the VCP6-DCV and VCIX6-DCV exams Implement different migration techniques across different environments Deploy and understand different concepts of VMware vSphere 6.7 lab Who this book is for If you are an administrator, infrastructure engineer, IT architect, or an IT consultant who has basic knowledge of VMware vSphere and now wants to master it, then this book is for you.

### **DevOps for VMware Administrators**

The ideal study guide for candidates seeking the leading virtualization certification The VMware Certified Professional on vSphere 5 (VCP-510) is the most desired certification for virtualization professionals, and this study guide covers all the requirements. 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 VMware Certified Professional on vSphere 5 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

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objectives, real world scenarios, hands-on exercises, challenging review questions, bonus practice exams, and electronic flashcards If you want the best preparation for the VMware Certified Professional on vSphere 5 exam, this is the study guide you need.

### **Cisco Unified Computing System (UCS) (Data Center)**

Annotation Enter the new era of data storage that combines database and networking technologies with this introductory comparison and practical implementation of Storage Area Networks. Multiple vendor reference: This book provides solutions and schemes from competing SAN vendors, including an appendix of available SAN products. Readers will learn to customize their own SAN solution: Authors forecast future growth of SANs in an Advanced Study of Virtual Interface. Technically accurate instruction: NIIT recently earned the National Education and Training group Excellence Award for defect-free deliveries of Learning products. Even highly experienced system or network professionals are unfamiliar with SAN functionality and terminology. This book opens with an overview of the need for data storage in an enterprise environment, the different types of data storage devices, and existing data storage techniques. The authors build on that foundation with an exploration of the evolution of SAN, the various networking models and data-centric applications, a chapter dedicated to fiber channel, and practical solutions for centralized, heterogeneous, and high-speed

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data storage challenges. The second half of this book delves into more practical applications of the SAN: designing, implementing, managing, and troubleshooting a SAN. The last chapter explores how SAN fits into the current Web scenario, and VI Architecture as a new system of cluster communications. Unlike competing titles, this book provides solutions for alternative SAN vendors, comparing SAN schemes for competitive products. NIIT is a global eBusiness IT Solutions Corporation that has provided over 650 Educational Multimedia Software titles and more than 10,000 hours of instructor-led training during its 16 years of training delivery. Judged the Best Training Company through an opinion poll among over 1000 CIOs, software professionals, and IT users by ComputerWorld magazine, NIIT provides classroom-based training, technology-based training, and Internet-based training.

### **VMware vSphere Design**

The information infrastructure – comprising computers, embedded devices, networks and software systems – is vital to operations in every sector: information technology, telecommunications, energy, banking and finance, transportation systems, chemicals, agriculture and food, defense industrial base, public health and health care, national monuments and icons, drinking water and water treatment systems, commercial facilities, dams, emergency services, commercial nuclear reactors, materials and waste, postal and shipping, and government

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facilities. Global business and industry, governments, indeed - ciety itself, cannot function if major components of the critical information infrastructure are degraded, disabled or destroyed. This book, Critical Infrastructure Protection III, is the third volume in the annual series produced by IFIP

Working Group 11.10 on Critical Infrastructure Protection, an active international community of scientists, engineers, practitioners and policy makers dedicated to advancing research, development and implementation efforts related to critical infrastructure protection. The book presents original research results and innovative applications in the area of infrastructure protection. Also, it highlights the importance of weaving science, technology and policy in crafting sophisticated, yet practical, solutions that will help secure information, computer and network assets in the various critical infrastructure sectors. This volume contains seventeen edited papers from the Third Annual IFIP Working Group 11.10 International Conference on Critical Infrastructure Protection, held at Dartmouth College, Hanover, New Hampshire, March 23-25, 2009. The papers were refereed by members of IFIP Working Group 11.10 and other internationally-recognized experts in critical infrastructure protection.

### **Mastering VMware Infrastructure 3**

This IBM® Redpaper™ publication helps you to install, tailor, configure, and use IBM Tivoli® Storage Manager for Virtual Environments - Data Protection for

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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.

### **IBM DS8870 and VMware Synergy**

DevOps for VMware® Administrators is the first book focused on using DevOps tools and practices with VMware technologies. The authors introduce high-value tools from third parties and VMware itself, and guide you through using them to improve the performance of all your virtualized systems and applications. You'll walk through automating and optimizing configuration management, provisioning, log management, continuous integration, and more. The authors also offer step-by-step coverage of deploying and managing applications at scale with Docker containers and Google Kubernetes. They conclude with an up-to-the-minute discussion of VMware's newest DevOps initiatives, including VMware vRealize Automation and VMware vRealize Code Stream. Coverage includes • Understanding the challenges that DevOps tools and practices can help VMware administrators to solve • Using Vagrant to quickly deploy Dev and Test environments that match production system specifications • Writing Chef "recipes"

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that streamline server configuration and maintenance • Simplifying Unix/Linux configuration management and orchestration with Ansible • Implementing Docker containers for faster and easier application management • Automating provisioning across the full lifecycle with Razor • Integrating Microsoft PowerShell Desired State Configuration (DSC) and VMware PowerCLI to automate key Windows Server and vSphere VM admin tasks • Using Puppet to automate infrastructure provisioning, configuration, orchestration, and reporting • Supercharging log management with ELK (Elasticsearch, Logstash, Kibana) • Supporting DevOps source code management with Git and continuous integration practices with Jenkins • Achieving continuous integration, delivery, and deployment with VMware's vRealize Code Stream

## **VCP5 VMware Certified Professional on VSphere 5 Study Guide**

The bestselling MCSA study guide, with expert instruction and hands-on practice MCSA Windows Server 2012 R2 Configuring Advanced Services Study Guide provides focused preparation for exam 70-412 and is fully updated to align with the latest Windows Server 2012 R2 objectives. This comprehensive guide covers 100 percent of all exam objective domains, and includes hundreds of practice questions and answers. You get access to video demonstrations, electronic flashcards, and practice exams, and hands-on exercises based on real-world scenarios allow you to apply your skills to everyday tasks. Organized by objective, each chapter includes

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review questions and a list of Exam Essentials that help you judge your level of preparedness every step of the way. Exam 70-412: Configuring Advanced Windows Server 2012 Services is the third and final exam in the MCSA certification series, and was recently updated to cover Server R2. Additions include enhancements to Hyper-V, Storage Spaces, and Active Directory, so it's crucial that your study guide be up to date as well. This book covers the entire exam, including the new information, with expert instruction and easy-to-follow explanation that helps you to: Configure network services, high availability, information protection, and more Implement business continuity and disaster recovery solutions Get hands-on practice in real-world scenarios Pass this one last exam and you become a Microsoft Certified Solutions Associate - someone with trusted, demonstrated expertise in the server software with over 83 percent market share. Businesses rely on Windows Server, and the people who understand them are in demand. Thorough preparation is the key to exam success, and MCSA Windows Server 2012 R2 Configuring Advanced Services Study Guide provides all the information you need to know.

## **Rob's Guide to Using VMware**

## **VMware vSphere PowerCLI Reference**

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Explore the benefits of VMware vSphere 6.7 to provide a powerful, flexible, and secure virtual infrastructure, and secure apps. Next, you'll pick up on how to enhance your infrastructure with high-performance storage access, such as remote direct memory access (RDMA) and Persistent Key Features Design, deploy and manage VMware vSphere virtual data centers Implement monitoring and security of VMware workloads with ease Explore tips and techniques for designing a robust virtual infrastructure Book Description vSphere 6.7 is the latest release of VMware's industry-leading virtual cloud platform. By understanding how to manage, secure, and scale apps with vSphere 6.7, you can easily run even the most demanding of workloads. This Learning Path begins with an overview of the features of the vSphere 6.7 suite. You'll learn how to plan and design a virtual infrastructure. You'll also gain insights into best practices to efficiently configure, manage, and secure apps. Next, you'll pick up on how to enhance your infrastructure with high-performance storage access, such as remote direct memory access (RDMA) and Persistent memory. The book will even guide you in securing your network with security features, such as encrypted vMotion and VM-level encryption. Finally, by learning how to apply Proactive High Availability and Predictive Distributed Resource Scheduler (DRS), you'll be able to achieve enhanced computing, storage, network, and management capabilities for your virtual data center. By the end of this Learning Path, you'll be able to build your own VMware vSphere lab that can run high workloads. This Learning Path includes content from the following Packt products: VMware vSphere 6.7 Data Center

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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.

### **Learning VMware vSphere**

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

### **Mastering VMware vSphere 6.7**

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

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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

## **Virtualization For Dummies**

## **VCP VMware Certified Professional vSphere 4 Study Guide (Exam VCP410)**

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 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

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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 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

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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 discussed better.

### **Mastering VMware vSphere 6.7**

This IBM® Redpaper™ publication describes how to implement a cloud-based

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solution with IBM FlashSystem™ V840 in a VMware and IBM Storage Integration Server environment. It walks the reader through planning, setup, configuration, and operations. It also provides tips for implementing FlashSystem V840 in a VMware environment by using IBM Storage Integration Server and VMware tools for optimizing and provisioning V840 storage.

### **VMware VCloud Architecture Toolkit (vCAT)**

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

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resource allocation and utilization to meet application needs Monitor infrastructure performance and availability Automate and orchestrate routine administrative tasks Mastering VMware vSphere 6.7 is what you need to stay up-to-date on VMware's industry-leading software for the virtualized datacenter.

## **NetApp and VMware View Solution Guide**

The start-to-finish guide to virtualizing business-critical SQL Server databases on VMware vSphere 5 By virtualizing business-critical databases, enterprises can drive far more value from existing IT infrastructure. But squeezing maximum performance out of a virtualized database instance is an art as much as a science. This indispensable start-to-finish guide brings together all the techniques, tips, and insights you need to succeed. Drawing on unsurpassed personal experience, three leading experts share complete best practices for deploying business-critical database servers in virtualized vSphere 5 environments. They cover the entire project lifecycle, bridging technical and communications gaps between SQL Server and VMware professionals that often make database virtualization more difficult than it needs to be. You'll find specific guidance for architects and administrators responsible for systems, storage, databases, applications, or VMware virtualization. The authors also present detailed, start-to-finish coverage of performance baselining and testing: all you need to make your virtualized databases as fast as they are cost effective. Although this book focuses on SQL, the authors' proven

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guidance for enhancing performance can be leveraged by any IT professional virtualizing a demanding Tier 1 application. Coverage includes

- Business cases for database virtualization: consolidation, Database as a Service (DaaS), efficiency, and “SLAs on steroids”
- Using the redundancy inherent in virtualization to improve availability
- Constructing a careful, conservative implementation plan
- Balancing disk, CPU, memory, and network for superior performance
- Mastering the five key principles of database storage design
- Leveraging memory: SQL MAX, page locking, NUMA, reservations, swapping, large memory pages, and more
- Ensuring responsiveness by providing a fast, reliable, low-latency network
- Supporting advanced AlwaysOn Failover Cluster Instances and Availability Groups
- Baseline physical systems and properly determining resource requirements
- Configuring performance tests from beginning to end
- Migrating existing SQL Server databases onto a vSphere platform
- Avoiding traps and pitfalls in virtualizing production databases
- Managing and monitoring virtualized database instances and resources

### **Learning PowerCLI**

Provides information on working with VMware ESXi in a variety of network environments, covering such topics as storage, networking, security, and vCloud.

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

#### **Critical Infrastructure Protection III**

Learning PowerCLI is written in a friendly and practical style with a focus on getting you started and automating daily tasks quickly and efficiently. If you manage or administrate a vSphere environment, and want to make that easier and more efficient, then this book is for you! This book is ideal for you if you want to learn how to automate your VMware vSphere infrastructure, by getting the most out of PowerCLI. It's assumed that you have some experience in administrating a VMware vSphere environment. Knowledge of Microsoft's Windows PowerShell is not a prerequisite.

#### **MCSA Windows Server 2012 R2 Configuring Advanced Services Study Guide**

The 2013 edition of the bestselling vSphere book on the market Virtualization remains the hottest trend in the IT world, and VMware vSphere is the industry's most widely deployed virtualization solution. The demand for IT professionals

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skilled in virtualization and cloud-related technologies is great and expected to keep growing. This comprehensive Sybex guide covers all the features and capabilities of VMware vSphere, showing administrators step by step how to install, configure, operate, manage, and secure it. This perfect blend of hands-on instruction, conceptual explanation, and practical application is reinforced with real-world examples. Led by Scott Lowe and Nick Marshall, both VMware vExperts, the author team provides expertise that will prepare IT professionals to excel in using this virtualization technology. Virtualization is seen as a "best practice" for high availability and disaster recovery solutions, as well as for applications such as Exchange Server and SharePoint IDC estimates that there are as many as 7 million jobs available worldwide in virtualization and cloud technology Provides hands-on instruction in all the latest features and capabilities of VMware vSphere, with both conceptual explanations and practical applications Author team is lead by Scott Lowe and Nick Marshall, well-known VMware experts and popular bloggers Mastering VMware vSphere provides what every virtualization professional needs to know.

### **Professional VMware Server**

The definitive guide to UCS and the Cisco® Data Center Server: planning, architecture, components, deployment, and benefits With its new Unified Computing System (UCS) family of products, Cisco has introduced a fundamentally

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new vision for data center computing: one that reduces ownership cost, improves agility, and radically simplifies management. In this book, three Cisco insiders thoroughly explain UCS, and offer practical insights for IT professionals and decision-makers who are evaluating or implementing it. The authors establish the context for UCS by discussing the implications of virtualization, unified I/O, large memories and other key technologies, and showing how trends like cloud computing and green IT will drive the next-generation data center. Next, they take a closer look at the evolution of server CPU, memory, and I/O subsystems, covering advances such as the Intel® XEON® 5500, 5600, 7500, DDR3 memory, and unified I/O over 10 Gbps Ethernet. Building on these fundamentals, the authors then discuss UCS in detail, showing how it systematically overcomes key limitations of current data center environments. They review UCS features, components, and architecture, and demonstrate how it can improve data center performance, reliability, simplicity, flexibility, and energy efficiency. Along the way, they offer realistic planning, installation, and migration guidance: everything decision-makers and technical implementers need to gain maximum value from UCS—now, and for years to come. Silvano Gai has spent 11 years as Cisco Fellow, architecting Catalyst®, MDS, and Nexus switches. He has written several books on networking, written multiple Internet Drafts and RFCs, and is responsible for 80 patents and applications. He teaches a course on this book's topics at Stanford University. Tommi Salli, Cisco Technical Marketing Engineer, has nearly 20 years of experience with servers and applications at Cisco, Sun, VERITAS, and Nuova Systems. Roger

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Andersson, Cisco Manager, Technical Marketing, spent more than 12 years in the CLARiiON® Engineering Division at EMC, and 5 years as Technical Product Manager at VERITAS/Symantec. He is now focused on Cisco UCS system management. Streamline data centers with UCS to systematically reduce cost of ownership Eliminate unnecessary server components—and their setup, management, power, cooling, and cabling Use UCS to scale service delivery, simplify service movement, and improve agility Review the latest advances in processor, memory, I/O, and virtualization architectures for data center servers Understand the specific technical advantages of UCS Integrate UCS 6100 Fabric Interconnect, Cisco UCS 2100 Series Fabric Extenders, UCS 5100 Series Blade Server Enclosures, UCS B-Series Blade Servers, UCS C-Series Rack Servers, and UCS Adapters Use Cisco UCS Manager to manage all Cisco UCS components as a single, seamless entity Integrate third-party management tools from companies like BMC®, CA®, EMC®, IBM®, Microsoft®, and VMware® Practice all this with a copy of Cisco Unified Computing System™ Platform Emulator Lite (UCSPE Lite) on the DVD in the back of the book This book is part of the Networking Technology Series from Cisco Press®, which offers networking professionals valuable information for constructing efficient networks, understanding new technologies, and building successful careers.

## **Windows Server 2012 Hyper-V Installation and Configuration**

### **Guide**

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.

### **VMware ESX Server**

Master your virtual environment with the ultimate vSphere guide Mastering VMware vSphere 6 is the fully updated edition of the bestselling guide to VMware's virtualization solution. With comprehensive coverage of this industry-leading toolset, this book acts as an informative guide and valuable reference. Step-by-step instruction walks you through installation, configuration, operation, security

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processes, and much more as you conquer the management and automation of your virtual environment. Written by certified VMware vExperts, this indispensable guide provides hands-on instruction and detailed conceptual explanations, anchored by practical applications and real-world examples. This book is the ultimate guide to vSphere, helping administrators master their virtual environment. Learn to: Install, configure, and manage the vCenter Server components Leverage the Support Tools to provide maintenance and updates Create and configure virtual networks, storage devices, and virtual machines Implement the latest features to ensure compatibility and flexibility Manage resource allocation and utilization to meet application needs Monitor infrastructure performance and availability Automate and orchestrate routine administrative tasks Mastering VMware vSphere 6 is what you need to stay up-to-date on VMware's industry-leading software for the virtualized datacenter.

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