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responsibilities ~~VMware tutorial:  
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DPM Overview VMware Datacenter  
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Datacenter Administration Guide

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## vSphere Datacenter Administration Guide - VMware

Datacenter Administration Guide describes how to start and stop the VMware® vSphere Client components, build your vSphere environment, monitor and manage the information generated about the components, and set up roles and permissions for users and groups using the vSphere environment.

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## Administration Guide

NSX-T Data Center Administration  
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373 Backup and Restore in Federation  
388 16 System Monitoring 390 Monitor  
NSX Edge Nodes 390 Working with  
Events and Alarms 392 About Events  
and Alarms 392 View Alarm  
Information 421

## NSX-T Data Center Administration Guide - VMware

The NSX-T Data Center  
Administration Guide provides  
information about configuring and  
managing networking for VMware NSX-  
T Data Center, including how to  
create logical switches and ports and  
how to set up networking for tiered  
logical routers, configure NAT,  
firewalls, SpoofGuard, grouping and

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**DHCP** It also describes how to configure NSX Cloud.

## About Administering VMware NSX-T Data Center

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## NSX-T Data Center Administration Guide - VMware NSX-T Data ...

The NSX-T Data Center



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Administration Guide provides information about configuring and managing networking for VMware NSX-T Data Center, including how to create logical switches and ports and how to set up networking for tiered logical routers, configure NAT, firewalls,

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## VMware Vsphere Datacenter Administration Guide

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Guide is updated with each release of  
the product or when necessary. This  
table provides the update history of the  
vSphere Datacenter Administration  
Guide. Revision Description  
000297-02 Included a Privilege in  
"Virtual Machine Provisioning," on  
page 261 vSphere Datacenter  
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Filter Tasks for a Host or Datacenter in  
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to Filter the Tasks List in the vSphere

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**Client 67** Cancel a Task in the vSphere Client 67 ... vSphere Administration with the vSphere Client VMware, Inc. 6. Select a Datastore in the vSphere Client 106

## vSphere Administration with the vSphere Client - VMware ...

The VMware Data Recovery Administrator's Guide contains information about establishing backup solutions for small and medium businesses. Intended Audience This book is for anyone who wants to provide backup solutions using VMware Data Recovery. The information

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Datacenter Administration Guide  
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## VMware Vsphere Datacenter Administration Guide

About Administering VMware NSX-T Data Center The NSX-T Data Center Administration Guide provides information about configuring and managing networking for VMware NSX-T Data Center, including how to create logical switches and ports and how to set up networking for tiered logical routers. It also describes how to configure NAT, firewalls,

## NSX-T Data Center Administration

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## Guide - VMware

Administration vSphere Virtual Machine Administration describes how to create, configure, and manage virtual machines in the VMware vSphere® environment. This guide provides introductions to the tasks that you can perform within the system and also cross-references to the documentation that describes the tasks in detail.

## Administration vSphere Virtual Machine - VMware

The NSX-T Data Center Administration Guide provides information about configuring and managing networking for VMware NSX-T Data Center, including how to create logical switches and ports and how to set up networking for tiered logical routers, configure NAT,

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firewalls, SpoofGuard, grouping and DHCP. It also describes how to configure NSX Cloud.

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

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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



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**Guide**  
and running. Coverage includes  
Understanding the key goals and  
concepts of Software-Defined Storage  
and Virtual SAN technology Meeting  
physical and virtual requirements for  
safe Virtual SAN implementation  
Installing and configuring Virtual SAN  
for your unique environment Using  
Storage Policy Based Management to  
control availability, performance, and  
reliability Simplifying deployment with  
VM Storage Policies Discovering key  
Virtual SAN architectural details:  
caching I/O, VASA, witnesses, pass-  
through RAID, and more Ensuring  
efficient day-to-day Virtual SAN  
management and maintenance  
Interoperating with other VMware  
features and products Designing and  
sizing Virtual SAN clusters  
Troubleshooting, monitoring, and  
performance optimization

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Micro-segmentation - Day 1 brings together the knowledge and guidance for planning, designing, and implementing a modern security architecture for the software-defined data center based on micro-segmentation. VMware NSX makes network micro-segmentation feasible for the first time. It enables granular firewalling and security policy enforcement for every workload in the data center, independent of the network topology and complexity. Micro-segmentation with NSX already helped over a thousand organizations improve the security posture of their software-defined data center by fundamentally changing the way they approach security architecture. Micro-segmentation - Day 1 is your roadmap to simplify and enhance security within

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software-defined data centers running NSX. You will find insights and recommendations proven in the field for moving your organization from a perimeter-centric security posture to a micro-segmented architecture that provides enhanced security and visibility within your data center.

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

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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

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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

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**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.

With scores of step-by-step solutions,

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**VMware Cookbook** helps you work with VMware ESXi in a wide range of network environments. You'll not only learn the basics—how to pool resources from hardware servers, computer clusters, networks, and storage, and then distribute them among virtual machines—but also how to overcome the stumbling blocks you'll encounter when you monitor systems, troubleshoot problems, and deal with security. This expanded second edition covers recent advances in vCloud Director and vShield cloud security. Ideal for system administrators of any level, **VMware Cookbook** also includes valuable information to help you determine your virtualization needs. Move into the cloud with vCloud Director, and secure virtual datacenters with vSphere Secure and monitor your virtual

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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® Redbooks® publication provides a basic introduction to the IBM System Storage® N series, virtualization, and VMware 5.x. It explains how to use the N series with VMware vSphere 5 environments and the benefits of doing so. Examples are given on how to install and set up



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VMware ESXi server with the N series. The IBM System Storage N series used as a storage foundation offers unified storage solutions that provide industry-leading technologies in the areas of storage efficiencies, instantaneous virtual machine and datastore cloning for virtual servers and virtual desktops, and virtual data center backup and business continuance solutions. The information provided can be also be used as a foundation to create dynamic cloud solutions, making full use of underlying storage features and functions. This book provides a blueprint for how clients can create a virtualized infrastructure/storage cloud that will help to address current and future data storage business requirements. IBM System Storage N series in conjunction with VMware vSphere 5

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**Guide** helps complete the virtualization hierarchy by providing both a server and storage virtualization solution. Although this configuration can further assist with other areas of virtualization, networks, and applications, these areas of virtualization are not covered in detail in this book.

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

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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

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vSphere suite's Infrastructure Services, Application Services, and vCenter Server. Topics include: Explaining data center virtualization concepts  
Identifying the core components of vSphere Networking and storage planning/configuration with vSphere  
Correlating VMware solutions to common business challenges  
The VCA-DCV certification is the only one with no instructor-led training requirement, so a thorough study guide is an invaluable tool in 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.

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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

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**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.

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

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pre-built commands based on Windows PowerShell that is designed to help you automate vSphere processes involving virtual machines, datacenters, storage, networks, and more. This detailed guide—using a practical, task-based approach and real-world examples—shows you how to get the most out of PowerCLI's handy cmdlets. Learn how to: Automate vCenter Server and ESX/ESX(i) Server deployment and configuration Create and configure virtual machines and use vApps Secure, back up, and restore your virtual machines Monitor, audit, and 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

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**The Definitive Guide to Planning, Implementing, Securing, Maintaining, and Troubleshooting VMware Virtual Infrastructure 3** This is the most comprehensive guide to planning for, implementing, securing, maintaining, monitoring, and troubleshooting VMware VI3 in any IT environment. Written by Eric Siebert, a veteran VMware system administrator and one of only 300 vExperts named by VMware in 2009, this book will help IT professionals make the best possible decisions about VMware every step of the way. Siebert presents extensive coverage of the upfront planning and architectural tasks that can make or break VMware deployments, sharing practical insights you'll never find in the official documentation. Next, he presents dozens of tips, tricks, and best practices for everything from



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migration and configuration to backup. Along the way, Siebert introduces advanced techniques for optimizing both the efficiency of VMware system administration and the effectiveness of VMware virtual environments. Coverage includes Understanding your current infrastructure--and all the ways virtualization will change it Building V13 environments for maximum reliability and performance Choosing the right software, servers, storage, and network infrastructure Constructing your virtualized environment Configuring virtual networking, storage, and resources to maximize host and guest performance Systematically securing hosts, VMs, networks, and vCenter Servers Mastering best practices for populating virtual environments, including P2V migration, templating, and the use of

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ISO files Monitoring your virtual environment, analyzing metrics, and proactively eliminating bottlenecks  
Applying patches to fix bugs and security vulnerabilities without introducing problems caused by unexpected dependencies  
Troubleshooting virtual environments: identifying and resolving specific problems, one step at a time  
Improving administration with snapshots, scripting, and other advanced techniques  
VMware VI3 Implementation and Administration is an invaluable guide for every professional working with VMware, including architects designing virtual infrastructures, as well as managers and administrators who must implement and support them.

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