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# Essential Virtual SAN VSAN Administrators Guide To VMware Virtual SAN VMware Press Technology

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IBM FlashSystem 5200 Product Guide John Wiley & Sons	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
Lay the foundations for data center virtualization using VMware vSphere 6 and strengthen your understanding of its power	technologist who is new to the realm of Data Center virtualization wanting to find a way to get a head start in learning how to design, implement and manage a modern day
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	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

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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

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foundation of many modern day data centers. What began as a technology to virtualize x86 architecture has now grown beyond the limits of a server's hardware and into the realm of storage and network virtualization. VMware is currently the market leader in developing data center virtualization solutions. This book goes into the details of designing and implementing VMware solutions that form the foundation of a VMware infrastructure. The book begins by introducing you to the concepts of server virtualization followed by the architecture of VMware's hypervisor – ESXi and then by its installation and configuration. You then learn what is required to manage a vSphere environment and configure advanced management capabilities of vCenter. Next you are taken through topics on vSphere Networking, Storage, ESXi Clustering, Resource Management and Virtual Machine Management. You will then be introduced to SSL Certificate Management and its use in a vSphere environment. Finally, you will learn about the lifecycle management of a vSphere environment by effectively monitoring, patching and upgrading vSphere components

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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.

Linux Administration Handbook Independently Published

IBM® Power Virtualization Center (IBM® PowerVCTM) is an advanced enterprise virtualization management offering for IBM Power Systems. This IBM Redbooks® publication introduces IBM PowerVC and helps you understand its functions, planning, installation, and setup. It also shows how IBM PowerVC can integrate with systems management tools such as Ansible or Terraform and that it also integrates well into a OpenShift container environment. IBM PowerVC Version 2.0.0 supports both large and small deployments, either by managing IBM PowerVM® that is controlled by the Hardware Management Console (HMC), or by IBM PowerVM NovaLink. With this capability, IBM PowerVC can manage IBM AIX®, IBM i, and Linux workloads that run on IBM

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<p>POWER® hardware. IBM PowerVC is available as a Standard Edition, or as a Private Cloud Edition. IBM PowerVC includes the following features and benefits: Virtual image capture, import, export, deployment, and management Policy-based virtual machine (VM) placement to improve server usage Snapshots and cloning of VMs or volumes for backup or testing purposes Support of advanced storage capabilities such as IBM SVC vdisk mirroring of IBM Global Mirror Management of real-time optimization and VM resilience to increase productivity VM Mobility with placement policies to reduce the burden on IT staff in a simple-to-install and easy-to-use graphical user interface (GUI) Automated Simplified Remote Restart</p>	<p>for improved availability of VMs ifor when a host is down Role-based security policies to ensure a secure environment for common tasks The ability to enable an administrator to enable Dynamic Resource Optimization on a schedule IBM PowerVC Private Cloud Edition includes all of the IBM PowerVC Standard Edition features and enhancements: A self-service portal that allows the provisioning of new VMs without direct system administrator intervention. There is an option for policy approvals for the requests that are received from the self-service portal. Pre-built deploy templates that are set up by the cloud administrator that simplify the deployment of VMs by the cloud user. Cloud management policies that</p>
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simplify management of cloud deployments. Metering data that can be used for chargeback. This publication is for experienced users of IBM PowerVM and other virtualization solutions who want to understand and implement the next generation of enterprise virtualization management for Power Systems. Unless stated otherwise, the content of this publication refers to IBM PowerVC Version 2.0.0.

Essential Virtual SAN (VSAN) IBM

Redbooks

A comprehensive, practical guide to accessing virtual desktops, applications, and services through a unified platform  
About This Book This is the first book on

the market that delivers desktops and applications through a single Virtual Desktop Infrastructure platform Reduce enterprise costs by dynamically allocating resources with virtual storage, compute and networking This comprehensive guide provides simplified operations, improved security, and accelerated time-to-value using VMware Horizon 7 Who This Book Is For If you are a newcomer to system administration, and you wish to implement the Horizon environment, then this book is for you. Prior knowledge of Horizon is

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beneficial. What You been a buzz since it  
Will Learn Walk was announced. One of  
through the the major reasons is  
configuration of the introduction of  
VMware Horizon, the new Instant  
including the new Clones feature. This  
Horizon Access Point book will complement  
appliance Implement a the product  
multi-site VMware documentation by  
Horizon pod using the providing real-life  
Cloud Pod examples of how it is  
Architecture feature implemented along  
Understand the with the latest  
integration between features and  
VMware Horizon and components of the  
VSAN, and see how platform. We'll  
they are deployed explore the latest  
together Explore how features of the  
to implement and platform, including  
maintain Microsoft those added through  
RDS and Linux and product acquisitions  
Windows Desktop Pools such as User  
Create and optimize Environment Manager  
desktop master and App Volumes.  
images. Understand Further on, you will  
how to manage the SSL also be introduced to  
certificates for each the new capabilities  
of the VMware Horizon added to the core  
components. In Detail product such Linked-  
VMware Horizon 7 has Clone RDS pools. Upon



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completion of this book, you will have an understanding of the capabilities and benefits VMware Horizon can provide to your organization, and how each of its components are implemented. Style and approach This comprehensive guide focuses on the practicality of VMware Horizon and how you can implement it in your organization.

Learning PowerCLI Packt Publishing Ltd

This IBM® Redbooks® publication describes several of the preferred practices and describes the performance gains that can be achieved by implementing the IBM SAN Volume Controller powered by IBM Spectrum®

Virtualize V8.4. These practices are based on field experience. This book highlights configuration guidelines and preferred practices for the storage area network (SAN) topology, clustered system, back-end storage, storage pools, and managed disks, volumes, Remote Copy services, and hosts. Then, it provides performance guidelines for IBM SAN Volume Controller, back-end storage, and applications. It explains how you can optimize disk performance with the IBM System Storage Easy Tier® function. It also provides preferred practices for monitoring, maintaining, and troubleshooting IBM SAN Volume Controller. This book is intended for experienced storage, SAN, and IBM SAN Volume Controller administrators

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and technicians.

Understanding this book requires advanced knowledge of the IBM SAN Volume Controller, IBM FlashSystem, and SAN environments.

*Essential Virtual SAN*  
Packt Publishing Ltd

This is the eBook of the printed book and may not include any media, website access codes, or print supplements that may come packaged with the bound book. Now fully updated: The authoritative, comprehensive guide to vSphere 6 storage implementation and management Effective VMware virtualization storage planning and management has become crucial—but it can be extremely complex. Now, VMware’s leading

storage expert thoroughly demystifies the “black box” of vSphere 6 storage and provides illustrated, step-by-step procedures for performing every key task associated with it.

Mostafa Khalil presents techniques based on years of personal experience helping customers troubleshoot storage in their vSphere production environments. Drawing on more experience than anyone else in the field, he combines expert guidelines, insights for better architectural design, best practices for planning and management, common configuration details, and deep dives into both vSphere and third-party storage. Storage Design and Implementation in

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vSphere 6, Second Edition	value by unifying and
will give you the deep	centrally managing
understanding you need	heterogeneous storage
to make better upfront	configurations
storage decisions, quickly	Understanding Storage
solve problems if they	Virtualization Devices
arise, and keep them from	(SVDs) and designing
occurring in the first place.	storage to take advantage
Coverage includes:	of them Implementing
Planning and	VMware Virtual Machine
implementing Fibre	File System (VMFS) to
Channel, FCoE, and	maximize performance
iSCSI storage in vSphere	and resource utilization
virtualized environments	Working with virtual disks
Implementing vSphere	and raw device mappings
Pluggable Storage	(RDMs) Managing
Architecture native	snapshots in VMFS and
multipathing, SATP, PSP,	Virtual Volumes
plug-ins, rules,	environments
registration, and more	Implementing and
Working with	administering NFS, VAAI,
Active/Passive and	Storage vMotion, VisorFS,
Pseudo-Active/Active	and VASA Integrating
ALUA SCSI-3 storage	VSAN core and advanced
arrays Maximizing	features Using Virtual
availability with	Volumes to streamline
multipathing and failover	storage operations and
Improving efficiency and	gain finer VM-level control

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over external storage

Introduction to Storage Area Networks Packt Publishing Ltd

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.

**Storage Design and Implementation in vSphere 6** VMware Press

VMware vSphere 5.1 Clustering Deepdive is the follow-up to best seller vSphere 5.0 Clustering Deepdive and zooms in on three key components of every

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VMware based infrastructure and. It provides the knowledge and expertise needed to create a cloud infrastructure based on the solid foundation of vSphere HA, vSphere DRS and vSphere Storage DRS. It explains the concepts and mechanisms behind HA, DRS and Storage DRS which will enable you to make well educated decisions. Besides a brand new stretched cluster use case section it includes a fully rewritten Storage DRS section, and new details on both vSphere HA and vSphere DRS. This book will take you in to the trenches of HA, DRS and Storage DRS and will give you the tools to understand and implement e.g. HA

admission control policies, DRS resource pools, Datastore Clusters and resource allocation settings. Each section contains basic design principles that can be used for designing, implementing or improving VMware infrastructures. Coverage includes:

- Stretched Clusters
- HA node types
- HA isolation detection and response
- HA admission control
- VM Monitoring
- HA and DRS integration
- DRS imbalance algorithm
- Resource Pools
- Impact of reservations and limits
- CPU Resource Scheduling
- Memory Scheduler
- DPM
- Datastore Clusters
- Storage DRS algorithm
- Influencing SDRS recommendations

*Vmware Vsan 6.7 U1 Deep Dive*  
Packt Publishing Ltd

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Design, develop and deploy a highly available vSphere environment for VMware Horizon View About This Book Enhance your capability of meeting various Service Level Agreements in VMware Horizon View Get acquainted through all the necessary considerations for building a View environment Cover VMware High Availability hurdle by hurdle along with the checklists for verification of the environment being ready for production Who This Book Is For If you manage, plan or deploy VMware Horizon View or are looking for tips for best practices and configuration details this book is for you. This book is intended for administrators who design and deploy VMware Horizon View or administrators who are looking for ways to improve their existing View environment. What You Will Learn Install and configure a VMware Horizon View Connection Server and redundant pair Discover the networking requirements for	View and learn how to build redundancy into your network Analyze each of the View user pool types and how each one can be made highly available and survivable. Get to know about storage protocols such as NFS, iSCSI and Fibre Channel Deploy Virtual SAN, and find out how to effectively couple Virtual SAN with View Learn about View monitoring tools to allow fast responses to various crises Plan, analyze and upgrade VMware Horizon View Analyze network services required for VMware Horizon View and build them in a redundant manner In Detail The increasing movement to virtualize workloads and workstations has put VMware Horizon View into a central mission critical role in many environments. Administrators may be overwhelmed with planning for outages and dealing with failure scenarios. It's easy to miss small details that will result in outages down the road. Following VMware Horizon View best practices
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and planning ahead with network infrastructure will allow you to avoid these common pit falls. This book will walk you through the setup and configuration of View in a highly available configuration. It will provide you with the skills to analyze and deploy configurations that can stand up to rigorous failure standards. The book starts with deploying and basic configuration of VMware Horizon View in a redundant setup, then moves on to cover high availability for networking, fibre channel, NFS, and iSCSI. We finish this book with monitoring and upgrade planning. At the end we also learn about maintaining the uptime and minimizing the downtime that can be caused due to various factors. Each topic comes with a list of best practices and failure scenarios to test. Administrators will learn the intricacies of protecting a View environment. Style and approach This book provides configuration and installation

steps for administration and installation of a Horizon View server. It includes high-level overviews of any protocols, services used by Horizon View, and best practices and high availability checklists for each chapter.

Virtualizing Hadoop VMware Press

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

**Learning VMware**

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**vSphere** Packt Publishing Ltd  
Master vSphere 6 virtualization with hands-on practice and bonus preview exams VCP6-DCV: VMware Certified Professional-Data Center Virtualization on vSphere 6 Study Guide is your ultimate guide to preparing for exam 2V0-621. This Study Guide provides 100% coverage of all exam objectives and offers a unique set of study tools including assessment tests, objective map, real-world scenarios, hands-on exercises, and much more so you can be confident come exam day. You will also receive access to the superior Sybex interactive online learning environment that provides additional study tools including electronic flashcards and bonus practice exams. More than just a study

guide, this book bridges the gap between exam prep and real-world on the job skills by focusing on the key information VMware professionals need to do the job. You'll master the vCenter Server and ESXi from planning and installation through upgrade and security, and develop an in-depth understanding of vSphere networking and storage, vApp deployment, service level establishment, troubleshooting, monitoring implementation, and so much more. Study 100% of exam 2V0-621 objectives Practice your skills with hands-on exercises Gain professional insight from real-world scenarios Test your understanding with review questions, practice tests, and more Virtualization is the number-one IT priority for organizations across public and private sectors, and



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VMware is the dominant force in the virtualization space. The VCP6-DCV certification gives you a highly marketable credential in terms of employment, but first you must pass this challenging exam.

VCP6-DCV gives you the power of Sybex exam prep and the skills you need to excel at the job.

Cloud Computing Pearson Education

“As this book shows, Linux systems are just as functional, secure, and reliable as their proprietary counterparts.

Thanks to the ongoing efforts of thousands of Linux developers, Linux is more ready than ever for deployment at the frontlines of the real world. The authors of this book know that terrain well, and I am happy to leave you in their most capable hands.” –Linus Torvalds “The most successful sysadmin book of all time—because it works!” –Rik Farrow, editor of ;login: “This book clearly

explains current technology with the perspective of decades of experience in large-scale system administration.

Unique and highly recommended.” –Jonathan Corbet, cofounder, LWN.net “Nemeth et al. is the overall winner for Linux administration: it’s intelligent, full of insights, and looks at the implementation of concepts.”

–Peter Salus, editorial director, Matrix.net Since 2001, Linux Administration Handbook has been the definitive resource for every Linux® system administrator who must efficiently solve technical problems and maximize the reliability and performance of a production environment. Now, the authors have systematically updated this classic guide to address today’s most important Linux distributions and most powerful new administrative tools. The authors spell out detailed best practices for every facet of system administration, including storage management, network

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design and administration, web hosting, software configuration management, performance analysis, Windows interoperability, and much more. Sysadmins will especially appreciate the thorough and up-to-date discussions of such difficult topics such as DNS, LDAP, security, and the management of IT service organizations. Linux® Administration Handbook, Second Edition, reflects the current versions of these leading distributions: Red Hat® Enterprise Linux® Fedora™ Core SUSE® Linux Enterprise Debian® GNU/Linux Ubuntu® Linux Sharing their war stories and hard-won insights, the authors capture the behavior of Linux systems in the real world, not just in ideal environments. They explain complex tasks in detail and illustrate these tasks with examples drawn from their extensive hands-on experience.

*VMware vSphere Design*  
John Wiley & Sons

The complete guide to provisioning and managing cloud-based Infrastructure as a Service (IaaS) data center solutions Cloud computing will revolutionize the way IT resources are deployed, configured, and managed for years to come. Service providers and customers each stand to realize tremendous value from this paradigm shift--if they can take advantage of it. Cloud Computing brings together the realistic, start-to-finish guidance they need to plan, implement, and manage cloud solution architectures for tomorrow's virtualized data centers. It introduces cloud "newcomers" to essential concepts, and offers experienced operations professionals

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detailed guidance on delivering Infrastructure as a Service (IaaS), Platform as a Service (PaaS), and Software as a Service (SaaS). This book's replicable solutions and fully-tested best practices will help enterprises, service providers, consultants, and Cisco partners meet the challenge of provisioning end-to-end cloud infrastructures. Drawing on extensive experience working with leading cloud vendors and integrators, the authors present detailed operations workflow examples, proven techniques for operating cloud-based network, compute, and storage infrastructure; a comprehensive management reference

architecture; and a complete case study demonstrating rapid, lower-cost solutions design. Cloud Computing will be an indispensable resource for all network/IT professionals and managers involved with planning, implementing, or managing the next generation of cloud computing services. Venkata (Josh) Josyula, Ph.D., CCIE® No. 13518 is a Distinguished Services Engineer in Cisco Services Technology Group (CSTG) and advises Cisco customers on OSS/BSS architecture and solutions. Malcolm Orr, Solutions Architect for Cisco's Services Technology Solutions, advises telecoms and enterprise clients on

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architecting, building, and operating OSS/BSS and cloud management stacks. He is Cisco's lead architect for several Tier 1 public cloud projects.

Greg Page has spent the last eleven years with Cisco in technical consulting roles relating to data center

architecture/technology and service provider security. He is now exclusively focused on developing cloud/IaaS solutions with service providers and systems integrator partners. ·

Review the key concepts needed to successfully deploy clouds and cloud-based services ·

Transition common enterprise design patterns and use cases to the cloud · Master architectural principles

and infrastructure designs for "real-time" managed IT services · Understand the Cisco approach to cloud-related technologies, systems, and services ·

Develop a cloud management architecture using ITIL, TMF, and ITU-TMN standards ·

Implement best practices for cloud service provisioning, activation, and management ·

Automate cloud infrastructure to simplify service delivery, monitoring, and assurance · Choose and

implement the right billing/chargeback approaches for your business · Design and build IaaS services, from start to finish · Manage the unique capacity challenges associated with sporadic, real-time

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demand - Provide a consistent and optimal cloud user experience

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. Category: Cloud Computing Covers: Virtualized Data Centers

**Vmware Vsphere 5.1 Clustering Deepdive** IBM Redbooks

Annotation Thousands of organizations are virtualizing large-scale Oracle database systems. But, until now, reliable best practices have been hard to find, and database and virtualization professionals have often brought differing and incompatible perspectives to the challenge. Now, there's a

comprehensive best practice guide reflecting deep understanding of both Oracle and vSphere, and supported by extensive in-the-field experience with the full spectrum of applications and environments.

*Storage Implementation in VSphere 5.0* VMWare Press

This is the eBook of the printed book and may not include any media, website access codes, or print supplements that may come packaged with the bound book. CCNA Data Center DCICN 200-150 Official Cert Guide from Cisco Press allows you to succeed on the exam the first time and is the only self-study resource approved by Cisco. Cisco Data Center experts Chad Hintz, Cesar Obediente, and Ozden Karakok share preparation hints and test-taking tips, helping you identify areas of weakness and improve both your conceptual knowledge and hands-on skills. This complete study package includes A test-

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preparation routine proven to help you pass the exam Do I Know This Already? quizzes, which allows you to decide how much time you need to spend on each section Chapter-ending exercises, which help you drill on key concepts you 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 final preparation chapter, which guides you through tools and resources to help you craft your review and test-taking strategies Study plan suggestions and templates to help you organize and optimize your study time Well-regarded for its level of detail, study plans, assessment features, 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 DCICN 200-150 exam, including the following: Nexus data center infrastructure and architecture Networking models, Ethernet LANs, and IPv4/IPv6 addressing/routing Data center Nexus switching and routing fundamentals Nexus switch installation and operation VLANs, trunking, STP, and Ethernet switching IPv4 and IPv6 subnetting IPv4 routing concepts, protocols, configuration, and access control Data center storage networking technologies and configurations

*Virtualizing Oracle*

*Databases on VSphere* IBM Redbooks

Plan, design, deploy, and administer the solutions available in VxRail Appliance Key

Features Learn how to plan and design the VxRail HCI system Understand VxRail's administration, lifecycle management, and cluster

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scale-outExplore migration methodologies for VxRail systemsBook Description Hyper-converged infrastructure (HCI) can help you simplify the provisioning and daily operations of computing and storage. With this book, you'll understand how HCI can offload the day 0 deployment and day-to-day operations of a system administrator. You'll explore the VxRail Appliance, which is an HCI solution that provides lifecycle management, automation, and operational simplicity. Starting with an overview of the VxRail Appliance system architecture and components, you'll understand the benefits of the VxRail system and compare it with the environment of traditional servers and storage. As you advance, the book covers topics such as disaster recovery and active-active and active-passive solutions for VxRail. By the end of this book, you'll have gained the confidence to manage the deployment, administration, planning, and design of a VxRail system. What you will learnSet up the hardware and software requirements for a VxRail installationMonitor the status of VxRail appliances with the VxRail Manager pluginGet to grips with all the administration interfaces used to manage the VxRail applianceUnderstand vCenter roles and permissions management in the VxRail clusterDiscover best practices for vSAN configuration in the VxRail clusterFind out about VxRail cluster scale-out rules and how to expand the VxRail clusterDeploy active-passive solutions for VxRail with VMware Site Recovery Manager (SRM)Who this

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

**VCP-DCV Official Cert Guide Essential Virtual SAN (VSAN)**

If you are a desktop administrator or an end user of a computing project team looking to speed up to the latest VMware Horizon View solution, then this book is perfect for you. It is your ideal companion to deploy a solution to centrally manage and virtualize your desktop estate using Horizon View 6.0.

Mastering VMware vSphere 6.7 Packt

Publishing Ltd

Plan, implement, and

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



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Writing for vSphere administrators, architects, and consultants, Cormac Hogan and Duncan Epping explain what Virtual SAN is, how it has evolved, what it now offers, and how to gain maximum value from it. Hogan and Epping draw on unsurpassed experience shaping Virtual SAN and helping VMware customers deploy it. They offer expert insight into preparation, installation, configuration, policies, provisioning, clusters, and more. You'll also find practical guidance for using its new Health and Performance Services to gain end-to-end visibility into infrastructure and resource consumption. Both an up-to-the-minute reference and hands-on

tutorial, *Essential Virtual SAN, Second Edition* uses realistic examples to demonstrate the immense power of Virtual SAN 6.x. You'll learn all you need to successfully plan and deploy the newest versions, and operate them smoothly and efficiently. **COVERAGE INCLUDES:** Understanding the goals and concepts of Software-Defined Storage and Virtual SAN Meeting updated requirements for safe Virtual SAN 6.x implementation Architecting, installing, and configuring Virtual SAN for your unique environment Simplifying deployment with VM storage policies and provisioning Controlling availability, performance, and reliability Efficiently

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managing and maintaining Virtual SAN Providing resiliency and scale-out storage functionality Designing and sizing clusters (with examples) Using stretched clusters to address rigorous downtime requirements Applying valuable new features such as deduplication, compression, checksums, and encryption Using Health and Performance Services to troubleshoot hardware, configurations, and performance Cisco MDS 9718 Multilayer Director for IBM Storage Networking Createspace Independent Publishing Platform 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

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design a virtual infrastructure. You'll also gain insights into best practices to efficiently configure, manage, and secure apps. Next, you'll pick up on how to enhance your infrastructure with high-performance storage access, such as remote direct memory access (RDMA) and Persistent memory. The book will even guide you in securing your network with security features, such as encrypted vMotion and VM-level encryption. Finally, by learning how to apply Proactive High Availability and Predictive Distributed Resource Scheduler (DRS), you'll be able to achieve enhanced computing, storage, network, and management capabilities for your virtual data center. By the end of this Learning Path, you'll be able to build your own VMware vSphere lab that can run high workloads. This Learning Path includes content from the following Packt products: VMware vSphere 6.7 Data Center Design Cookbook - Third Edition by Mike Brown and Hersey CartwrightMastering VMware vSphere 6.7 - Second Edition by Martin Gavanda, Andrea Mauro, Karel Novak, and Paolo ValsecchiWhat you will learnUnderstand how to patch, upgrade, and manage a virtual environment with vSphere 6.7Identify key factors related to a vSphere designMitigate security risks and meet compliance requirements in a vSphere designCreate a vSphere conceptual design by identifying technical and business requirementsMap the logical resource design into the physical vSphere designCreate professional

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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.

VMware Software-Defined Storage Pearson Education Plan and Implement Hadoop Virtualization for Maximum Performance, Scalability, and Business Agility Enterprises running Hadoop must absorb rapid changes in big data ecosystems, frameworks, products, and workloads. Virtualized approaches can offer important advantages in speed, flexibility, and

elasticity. Now, a world-class team of enterprise virtualization and big data experts guide you through the choices, considerations, and tradeoffs surrounding Hadoop virtualization. The authors help you decide whether to virtualize Hadoop, deploy Hadoop in the cloud, or integrate conventional and virtualized approaches in a blended solution. First, Virtualizing Hadoop reviews big data and Hadoop from the standpoint of the virtualization specialist. The authors demystify MapReduce, YARN, and HDFS and guide you through each stage of Hadoop data management. Next, they turn the tables, introducing big data experts to modern virtualization concepts and best practices. Finally, they bring Hadoop and virtualization together, guiding you

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through the decisions you'll face in planning, deploying, provisioning, and managing virtualized Hadoop. From security to multitenancy to day-to-day management, you'll find reliable answers for choosing your best Hadoop strategy and executing it. Coverage includes the following: •

Reviewing the frameworks, products, distributions, use cases, and roles associated with Hadoop •

Understanding YARN resource management, HDFS storage, and I/O •

Designing data ingestion, movement, and organization for modern enterprise data platforms • Defining SQL engine strategies to meet strict SLAs • Considering security, data isolation, and scheduling for multitenant environments • Deploying Hadoop as a service in the cloud • Reviewing the essential concepts,

capabilities, and terminology of virtualization • Applying current best practices, guidelines, and key metrics for Hadoop virtualization • Managing multiple Hadoop frameworks and products as one unified system •

Virtualizing master and worker nodes to maximize availability and performance • Installing and configuring Linux for a Hadoop environment

## **Information Storage and Management IBM Redbooks**

The superabundance of data that is created by today's businesses is making storage a strategic investment priority for companies of all sizes. As storage takes precedence, the following major initiatives emerge: Flatten and converge your network: IBM® takes an open,

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standards-based approach	Companies are searching
to implement the latest	for more ways to
advances in the flat,	efficiently manage
converged data center	expanding volumes of
network designs of today.	data, and to make that
IBM Storage solutions	data accessible
enable clients to deploy a	throughout the enterprise.
high-speed, low-latency	This demand is propelling
Unified Fabric	the move of storage into
Architecture. Optimize	the network. Also, the
and automate	increasing complexity of
virtualization: Advanced	managing large numbers
virtualization awareness	of storage devices and
reduces the cost and	vast amounts of data is
complexity of deploying	driving greater business
physical and virtual data	value into software and
center infrastructure.	services. With current
Simplify management:	estimates of the amount
IBM data center networks	of data to be managed
are easy to deploy,	and made available
maintain, scale, and	increasing at 60% each
virtualize, delivering the	year, this outlook is where
foundation of consolidated	a storage area network
operations for dynamic	(SAN) enters the arena.
infrastructure	SANs are the leading
management. Storage is	storage infrastructure for
no longer an afterthought.	the global economy of
Too much is at stake.	today. SANs offer

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simplified storage management, scalability, flexibility, and availability; and improved data access, movement, and backup. Welcome to the cognitive era. The smarter data center with the improved economics of IT can be achieved by connecting servers and storage with a high-speed and intelligent network fabric. A smarter data center that hosts IBM Storage solutions can provide an environment that is smarter, faster, greener, open, and easy to manage. This IBM® Redbooks® publication provides an introduction to SAN and Ethernet networking, and how these networks help to achieve a smarter data center. This book is intended for people who are not very familiar with IT, or who are just starting out in the IT world.