

Mastering VMware vSphere 6 7

Mastering VMware NSX for vSphere
 vCenter Troubleshooting
 Mastering VMware vSphere 4
 VMware Cookbook
 VCDX Boot Camp
 VMware vSphere Design
 The Complete VMware vSphere Guide
 Storage Design and Implementation in vSphere 6
 Mastering VMware vSphere 6.7
 Learning VMware vSphere
 Mastering VMware vSphere 6
 The Complete VMware vSphere Guide
 Mastering VMware Horizon 8
 VMware Software-Defined Storage
 VMware vSphere Design Essentials
 Mastering Citrix® XenDesktop®
 The Official VCP5 Certification Guide
 Mastering VMware NSX for vSphere
 VCP-DCV for vSphere 7.x (Exam 2V0-21.20) Official Cert Guide
 Mastering VMware Horizon 6
 Virtualization Essentials
 Mastering VMware Horizon 7
 Mastering VMware vSphere 6
 VMware vSphere For Dummies
 Mastering vRealize Operations Manager
 VMware vSphere 6.x Datacenter Design Cookbook
 VMware vSphere 6.7 Data Center Design Cookbook
 VMware vSphere PowerCLI Reference
 Networking for VMware Administrators
 Mastering VMware vSphere 6.7
 VMware vSphere 6. 7 Clustering Deep Dive - Rubrik
 Storage Implementation in vSphere 5.0
 Implementing VMware vCenter Server
 Mastering VMware vSphere 6.5
 Mastering Veeam Backup & Replication
 IBM SAN Solution Design Best Practices for VMware vSphere ESXi
 vSphere 6 Foundations Exam Official Cert Guide (Exam #2V0-620)
 VMware vSphere Troubleshooting
 Mastering CloudForms Automation
 Mastering VMware vSphere 5.5

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Mastering VMware NSX for vSphere Packt Publishing Ltd
 Prepare to succeed at your VCDX panel defense and gain world-class knowledge for designing complex VMware environments. VMware Certified Design Expert (VCDX) is the highest level of VMware certification, achieved by dedicated professionals who have demonstrated exceptional skill in VMware enterprise deployments. To earn a VCDX, professionals must create a complete enterprise VMware design and undergo an arduous defense at the hands of some of the world's most sophisticated VMware experts. Now, for the first time, there's a comprehensive guide to VCDX defense: VCDX Boot Camp. Based on the legendary standing-room-only boot camps led by VCDX co-creator John Arrasjid, this guide captures the unsurpassed personal experience of three pioneering VCDX certification holders, program developers, and defense panelists. John Arrasjid, Ben Lin, and Mostafa Khalil cover everything you need to know to prepare for certification. They demystify the entire VCDX defense process, clearly explain its format and prerequisites, and offer indispensable tips for maximizing your likelihood of success. Detailed chapters on both design and troubleshooting offer four complete scenarios explaining exactly what VCDX panelists will expect from your defense. Learn how to think like a VCDX, discovering powerful insights and best practices for designing your own world-class virtualized environment. Coverage includes

- Authoritative preparation guidance (including expert insights into scheduling your preparation and defense)
- Tips for conducting mock defenses, boot camps, and study sessions with your colleagues
- How to select, create, and document a superior, defensible design
- How to make design choices and incorporate design patterns that support the VCDX blueprint
- How to confidently defend your skills in architecture, designing new solutions, and troubleshooting design or implementation flaws
- Proven tips for responding to tough questions from panelists
- Detailed example defenses of designs incorporating VCDX-DCV, VCDX-Cloud, and VCDX-DT

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vmware.com/go/vcdx

vCenter Troubleshooting "O'Reilly Media, Inc."

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 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.

Mastering VMware vSphere 4 Packt Publishing Ltd
 "DVD contains additional exam preparation complementary"--Disc surface.

VMware Cookbook Packt Publishing Ltd

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

VCDX Boot Camp Pearson Education

Learn how to work with the Automate feature of CloudForms, the powerful Red Hat cloud management platform that lets you administer your virtual infrastructure, including hybrid public and private clouds. This practical hands-on introduction shows you how to increase your operational efficiency by automating day-to-day tasks that now require manual input. Throughout the book, author Peter McGowan provides a combination of theoretical information and practical coding examples to help you learn the Automate object model. With this CloudForms feature, you can create auto-scalable cloud applications, eliminate manual decisions and operations when provisioning virtual machines and cloud instances, and manage your complete virtual machine lifecycle. In six parts, this book helps you: Learn the objects and concepts for developing automation scripts with CloudForms Automate Customize the steps and workflows involved in provisioning virtual machines Create and use service catalogs, items, dialogs, objects, bundles, and hierarchies Use CloudForm's updated workflow to retire and delete virtual machines and services Orchestrate and coordinate with external services as part of a workflow Explore distributed automation processing as well as argument passing and handling

VMware vSphere Design John Wiley & Sons

This is the eBook edition of the VCP-DCV for vSphere 7.x (Exam 2V0-21.20) Cert Guide. This eBook does not include access to the Pearson Test Prep practice exams that comes with the print edition. Learn, prepare, and practice for VMware Certified Professional - Data Center Virtualization for vSphere 7 exam success with this VCP-DCV for vSphere 7.x (Exam 2V0-21.20) Cert Guide from Pearson IT Certification, a leader in IT Certification learning. Master the VMware Certified Professional - Data Center Virtualization for vSphere 7 exam topics Assess your knowledge with chapter-opening quizzes Review key concepts with exam preparation tasks Practice with realistic exam questions VCP-DCV for vSphere 7.x (Exam 2V0-21.20) Cert Guide is a best-of-breed exam study guide. Leading experts John A. Davis, Steve Baca, and Owen Thomas share preparation hints and test-taking tips, helping you identify areas of weakness and improve both your conceptual knowledge and hands-on skills. Material is presented in a concise manner, focusing on increasing your understanding and retention of exam topics. The book presents you with an organized test preparation routine through the use of proven series elements and techniques. Exam topic lists make referencing easy. Chapter-ending Exam Preparation Tasks help you drill on key concepts you must know thoroughly. Review questions help you assess your knowledge, and a final preparation chapter guides you through tools and resources to help you craft your final study plan. Well regarded for its level of detail, assessment features, and challenging review questions and exercises, this study guide helps you master the concepts and techniques that will allow you succeed on the VMware Certified Professional - Data Center Virtualization for vSphere 7 exam, including Architectures and Technologies VMware Products and Solutions Components and Requirements Installing, Configuring, and Setup Performance-tuning, Optimization, Upgrades Clusters and High Availability Administrative and Operational Tasks

The Complete VMware vSphere Guide Packt Publishing Ltd
 Over 75 practical recipes to confidently design an efficient virtual datacenter with VMware vSphere 6.x About This Book Get the first book on the market that helps you design a virtualized data center with VMware vSphere 6 Achieve enhanced compute, storage, network, and management capabilities for your virtual data center Exciting and practical recipes help you to design a virtual data easily by leveraging the features of VMware vSphere 6 Who This Book Is For If you are an administrator or consultant interested in designing virtualized datacenter environments using VMware vSphere 6.x or previous versions of vSphere and the supporting components, this book is for you. It will help both new and experienced architects deliver professional VMware vSphere virtual datacenter designs. What You Will Learn Identify key

factors related to a vSphere design and apply them to every step of the design process Mitigate security risks and meet compliance requirements in a vSphere design. Create a vSphere conceptual design by identifying technical and business requirements Determine the type of database to use based on the deployment size. Design for performance, availability, recoverability, manageability, and security Map the logical resource design into the physical vSphere design Create professional vSphere design documentation to ensure a successful implementation of the vSphere design Leverage the latest vSphere 6.x features to ensure manageability, performance, availability, and security in a virtual datacenter design In Detail VMware is the industry leader in data center virtualization. The vSphere 6.x suite of products provides a robust and resilient platform to virtualize server and application workloads. With the release of 6.x a whole range of new features has come along such as ESXi Security enhancements, fault tolerance, high availability enhancements, and virtual volumes, thus simplifying the secure management of resources, the availability of applications, and performance enhancements of workloads deployed in the virtualized datacenter. This book provides recipes to create a virtual datacenter design using the features of vSphere 6.x by guiding you through the process of identifying the design factors and applying them to the logical and physical design process. You'll follow steps that walk you through the design process from beginning to end, right from the discovery process to creating the conceptual design; calculating the resource requirements of the logical storage, compute, and network design; mapping the logical requirements to a physical design; security design; and finally creating the design documentation. The recipes in this book provide guidance on making design decisions to ensure the successful creation, and ultimately the successful implementation, of a VMware vSphere 6.x virtual data center design. Style and Approach The book follows a recipe-based approach that consists of practical recipes to effectively design a virtual data center.

Storage Design and Implementation in vSphere 6 Packt Publishing Ltd

Nowadays, many organizations are moving toward desktop virtualization. Citrix® XenDesktop® is the most comprehensive solution to implement a scalable and high performance virtual desktop environment. This book will provide you with the technical skills you need to successfully design, set up, and maintain a XenDesktop® environment. This book will introduce you to the main components of a XenDesktop® infrastructure and covers how to design and install them. Through each chapter, you will quickly learn how to configure your virtual desktop environment in order to meet specific end user requirements, giving your users the freedom to work from anywhere and from any device while virtual desktops and apps are centrally maintained in your data center.

Mastering VMware vSphere 6.7 John Wiley & Sons

Gain expertise in troubleshooting most common issues to implement vSphere environments with ease About This Book Plan, analyze, and design effective solutions for your vSphere environment Troubleshoot problems related to vSphere performance Familiarize yourself with the advanced troubleshooting concepts and become an expert level administrator Who This Book Is For The book is intended for mid-level System Engineers and System Integrators who want to learn VMware power tools to troubleshoot and manage the vSphere infrastructure. Good knowledge level and understanding of virtualization is expected. What You Will Learn Configure vSphere management assistant and troubleshooting tools Use troubleshooting tools to monitor performance and troubleshoot different issues Learn how to troubleshoot High Availability and other commonly known problems with clusters such as insufficient resources, failing heartbeats Use Direct Console User Interface (DCUI) to verify configuration Diagnose storage issues including iSCSI, NFS and VMFS problems Manage vSphere Network Virtual and Distributed Switches, Trunks, VLANs Monitor and shape network traffic, configure routes and DNS Quickly resolve common day-to-day problems by analysing logs of VMware vSphere hosts and VMware vCenter Server Debug and resolve commonly known vSphere Cluster problems In Detail VMware vSphere is the leading server virtualization platform with consistent management for virtual data centers. It enhances troubleshooting skills to diagnose and resolve day to day problems in your VMware vSphere infrastructure environment. This book will provide you practical hands-on knowledge of using different performance monitoring and troubleshooting tools to manage and troubleshoot the vSphere infrastructure. It begins by introducing systematic approach for troubleshooting different problems and show casing the troubleshooting techniques. You will be able to use the troubleshooting tools to monitor performance, and troubleshoot issues related to Hosts and Virtual Machines. Moving on, you will troubleshoot High Availability, storage I/O control problems, virtual LANS, and iSCSI, NFS, VMFS issues. By the end of this book, you will be able to analyze and solve advanced issues related to vSphere environment such as vcenter certificates, database problems, and different failed state errors. Style and approach A step-by-step guide full of real world

scenarios that will enhance advanced knowledge, skills, and abilities to achieve competence in troubleshooting the VMware vSphere environment. Basic concepts of vSphere and the most common vSphere infrastructure problems are explained with practical solutions to resolve it.

Learning VMware vSphere Pearson Education

Learn the fundamental concepts and skills by building your own virtual machine Virtualization is more important than ever, it's how the Cloud works! As virtualization continues to expand, millions of companies all over the world are leveraging virtualization. IT professionals need a solid understanding of virtualization concepts and software to compete in today's job market. The updated new edition of Virtualization Essentials teaches you the core concepts and skills necessary to work with virtualization environments. Designed for new and aspiring IT professionals alike, this practical guide offers an applied, real-world approach to help you develop the necessary skill set to work in Cloud computing, the DevOps space, and the rest of the virtual world. Virtualization Essentials simplifies complex concepts to ensure that you fully understand what virtualization is and how it works within the computing environment. Step by step, you'll learn how to build your own virtual machine, both by scratch and by migrating from physical to virtual. Each user-friendly chapter contains an overview of the topic, a discussion of key concepts, hands-on tutorials, end-of-chapter exercises, review questions, and more. Configure and manage a virtual machine's CPU, memory, storage, and networking Distinguish between Type 1 and Type 2 hypervisors Compare the leading hypervisor products in today's market Configure additional devices for a virtual machine Make considerations for availability Understand how cloud computing leverages virtualization Virtualization Essentials is an invaluable 'learn-by-doing' resource for new and aspiring IT professionals looking to gain a solid foundation in virtualization. It is also an excellent reference for more experienced IT admins responsible for managing on-premise and remote computers and workstations.

Mastering VMware vSphere 6 Packt Publishing Ltd

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 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.

The The Complete VMware vSphere Guide Pearson Education Learn all about designing, installing, configuring, and managing VMware Horizon, with a core focus on how to deliver virtual desktops using Horizon. This book allows you to follow the complete process for deploying VMware Horizon and covers the design, deployment, and management of solutions. You'll start by reviewing remote solutions, from virtual desktops to published applications, including the benefits and what the different solutions deliver. Once through the high-level technology you'll then look at the VMware Horizon solution focusing on the architecture and the components that make up the solution and

how to design a production-ready environment. Other VMware EUC technologies that complement the core Horizon solution will also be incorporate into it. Armed with the knowledge of how to design a solution, you'll move onto the installation phase and start to build a test lab environment. Once your lab is installed, you'll move onto the configuration stage where you will understand how to build, configure, and optimize virtual desktops, and desktop pools ready for end-users to use. As part of this you will also look at delivering published applications with Horizon Apps. With resources built and configured you can optimize the end-user experience with Horizon clients. The final sections of the book will focus on the other complementary solutions introducing you to VMware App Volumes and VMware Dynamic Environment Manager before finishing with how to manage the solution where we will look at some advanced configuration options and troubleshooting techniques. What You Will Learn See the core components of VMware Horizon and their functionality Design and install a Horizon environment Deliver the best end-user experience Manage the deployed solution Use VMware reference architectures to create real-life scenario examples Review the minimum requirements for designing a solution Who This Book Is For VMware professionals, system integrators, IT professionals, and consultants.

Mastering VMware Horizon 8 IBM Redbooks

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

VMware Software-Defined Storage John Wiley & Sons

Learn advanced desktop virtualization techniques and strategies and dive deeper into VMware Horizon 7, take responsibility for optimizing your end user experience About This Book Build better virtualized services for your users with VMware Horizon 7 Take full advantage of Horizon's range of features for confidence and control in your virtualized solutions Take responsibility for transforming your organization - this guide will get you started! Who This Book Is For Admins, architects... whatever your role, if you find virtualization a bit of a headache this book is for you. You'll go deep into VMware Horizon and see just what its capable of. It will take you to an advanced level, but at a pace that ensures you're always solving real-world problems. You'll need some experience in desktop management using Windows and Microsoft Office, and familiarity with Active Directory, SQL, Windows Remote Desktop Session Hosting, and VMware vSphere technology. What You Will Learn Successfully configure Horizon 7 for the needs of your users Find out how VMware is perfect for end-user computing delivering virtual desktops, session-based desktops, and hosted applications all from the same platform Learn how to develop, and deploy a complete end-to-end solution Discover how to optimize desktop OS images for virtual desktops Build, optimize, and tune desktop operating systems to deliver a superior end-user experience Explore the Horizon 7 infrastructure, so you can take full advantage of it! In Detail Desktop virtualization can be a bit of a headache. But VMware Horizon 7 changes all that. With a rich and adaptive UX, improved security and a range of useful features for storage and networking optimization, there's plenty to love. But to properly fall in love with it, you need to know how to use it. And that means venturing

deeper into the software, taking advantage of its extensive range of features, many of which are underused and underpromoted. This guide will take you through everything you need to know to not only successfully virtualize your desktop infrastructure but also to maintain and optimize the infrastructure to keep all your users happy. We'll show you how to assess and analyze your infrastructure, and how to use that analysis to design a solution that meets your organizational and user needs. Once you've done that, you'll find out how to build your virtualized environment, before deploying your virtualized solution. But more than that, we'll also make sure you know everything you need to know about the full range of features on offer, including mobile cloud, so you can use them to take full control of your virtualized infrastructure. Style and approach Focusing on an end-user project, this useful, yet comprehensive guide will show you how to take full advantage of VMware's Horizon 7 solution and how to successfully implement it for your organization.

VMware vSphere Design Essentials Packt Publishing Ltd
Unleash the benefits of VMware vSphere 6.7 to provide a powerful, flexible and 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 vSphere 6.7 is the latest release of VMware's industry-leading, virtual cloud platform. It allows organisations to move to hybrid cloud computing by enabling them to run, manage, connect and secure applications in a common operating environment. This up-to-date, 2nd edition provides complete coverage of vSphere 6.7. Complete with step-by-step explanations of essential concepts, practical examples and self-assessment questions, you will begin with an overview of the products, solutions and features of the vSphere 6.7 suite. You'll learn how to design and plan a virtual infrastructure and look at the workflow and installation of components. You'll gain insight into best practice configuration, management and security. By the end the book you'll be able to build your own VMware vSphere lab that can run even the most demanding of workloads. What you will learn Explore the immense functionality of vSphere 6.7 Design, manage and administer a virtualization environment Get tips for the VCP6-DCV and VCIX6-DCV exams Understand how to implement different migration techniques across different environments Explore vSphere 6.7's powerful capabilities for patching, upgrading and managing the configuration of virtual environments. Understand core vSphere components Master resource management, disaster recovery, troubleshooting, monitoring and security Who this book is for This book is for Administrators, Infrastructure Engineers, Architects, and Consultants with basic knowledge of VMware vSphere. *Mastering Citrix® XenDesktop®* Packt Publishing Ltd
If you want to gain insight into the real-world uses of VMware ESX and ESXi, this book provides scores of step-by-step solutions for working with these products 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 the stumbling blocks you'll encounter when you monitor systems, troubleshoot problems, and deal with security. In addition to the recipes, *VMware Cookbook* includes background information to help you determine your virtualization needs. You'll come to view VMware as part of the real environment, alongside operating systems, storage, and logical and physical network components. Follow best practices for installing VMware in your environment Discover how to secure and monitor your network Understand disk storage implementation and configuration Learn resource management using the distributed resource scheduler, shares, and resource pools Configure logical and physical networks Learn how to clone and migrate servers Gain valuable tips for configuration and fine-tuning Many resources can teach you about virtualization and the basics of VMware. This book is for system administrators who are ready to go beyond an introduction.

The Official VCP5 Certification Guide John Wiley & Sons
Protect your cloud, virtual, and on-premises environments by implementing Veeam's powerful backup and replication

technology Key Features Gain in-depth knowledge of CDP and hardened repositories that you can use in your virtual environment Explore Veeam's monitoring and reporting utility - Veeam ONE - along with Linux proxy enhancements Work with the new Veeam Disaster Recovery Orchestrator (Orchestrator) for testing failovers and backups Book Description Veeam is one of the leading modern data protection solutions, making it a necessary skill for anyone responsible for securing virtual environments. This revised second edition of *Mastering Veeam Backup & Replication* is updated to cover Veeam version 11. The book guides you through implementing modern data protection solutions for your cloud and virtual infrastructure with Veeam, all while helping you master advanced concepts such as Continuous Data Protection (CDP), extended object storage support, Veeam ONE enhancements, and Orchestrator. Starting with Veeam essentials, including installation, best practices, and optimizations for Veeam Backup & Replication, you'll get to grips with the 3-2-1-1-0 rule to safeguard data. You'll understand how to set up a backup server, proxies, repositories, and more and then advance to cover a powerful feature of Veeam 11 - CDP. As you progress, you'll learn about immutability (also known as hardened repositories) and discover the best practices for creating them. Finally, you'll explore the new proxy option available in Linux and become well-versed with advanced topics such as extended object storage support, Veeam ONE enhancements, and Orchestrator. By the end of this Veeam book, you'll be able to implement Veeam Backup & Replication for securing your environment and enabling disaster recovery. What you will learn Discover the advanced concepts of Veeam Backup & Replication 11 Master application optimization based on Veeam best practices Get to grips with configuring CDP and working with repositories and proxies Explore ways to protect your backups with immutable hardened repositories Understand the enhancements to backups, instant recovery, and Linux proxies Explore Veeam ONE enhancements Become well-versed in using Veeam Disaster Recovery Orchestrator Who this book is for This Veeam backup book is for IT professionals who have intermediate to advanced-level knowledge of virtualization as well as backups and backup applications. Anyone who needs a reference guide for learning the advanced features of Veeam Backup & Replication and how they are used, including best practices and optimizations, will also find this book useful. *Mastering VMware NSX for vSphere* Packt Publishing Ltd
Deliver great business value by adopting the virtualization platform VMware vSphere 6.5, from the design to the deployment About This Book This new edition is based on vSphere 6.5 and has described new features in different areas, including management, security, scalability, availability and so on. Design, deploy and manage VMware datacenters Implement monitoring and security of VMware workloads with ease. Who This Book Is For If you are an administrator, infrastructure engineer, IT architect, or an IT consultant and analyst who has basic knowledge of VMware vSphere and now wants to master it, then this book is for you. What You Will Learn Get a deep understanding of vSphere 6.5 functionalities Design and plan a virtualization environment based on vSphere 6.5 Manage and administer a vSphere 6.5 environment and resources Get tips for the VCP6-DCV and VCIX6-DCV exams (along with use of the vSphere 6 documentation) Implement different migration techniques to move your workload across different environments. Save your configuration, data and workload from your virtual infrastructure. In Detail VMware vSphere 6.5 provides a powerful, flexible and secure foundation for next-generation applications which helps you create an effective digital transformation. This book will be based on VMware vSphere 6.5 which empowers you to virtualize any complex application with ease. You'll begin by getting an overview of all the products, solutions and features of the vSphere 6.5 suite, comparing the evolutions with the previous releases. Next, you'll design and plan a virtualization infrastructure to drive planning and performance analysis. Following this, you will be proceeding with workflow and installation of components. New network trends are also covered which will help you in optimally designing the vSphere environment. You will also learn the practices and procedures involved in configuring and managing virtual machines in a

vSphere infrastructure. With vSphere 6.5, you'll make use of significantly more powerful capabilities for patching, upgrading, and managing the configuration of the virtual environment. Next we'll focus on specific availability and resiliency solutions in vSphere. Towards the end of the book you will get information on how to save your configuration, data and workload from your virtual infrastructure. By the end of the book you'll learn about VMware vSphere 6.5 right from design to deployment and management. Style and Approach This book acts as a reference guide providing real-world scenarios and a possible baseline for each virtualization project based on VMware vSphere. *VCP-DCV for vSphere 7.x (Exam 2V0-21.20) Official Cert Guide* Pearson IT Certification

The inside guide to the next generation of data storage technology VMware Software-Defined Storage, A Guide to the Policy Driven, Software-Defined Storage Era presents the most in-depth look at VMware's next-generation storage technology to help solutions architects and operational teams maximize quality storage design. Written by a double VMware Certified Design Expert, this book delves into the design factors and capabilities of Virtual SAN and Virtual Volumes to provide a uniquely detailed examination of the software-defined storage model. Storage-as-a-Service (STaaS) is discussed in terms of deployment through VMware technology, with insight into the provisioning of storage resources and operational management, while legacy storage and storage protocol concepts provide context and demonstrate how Virtual SAN and Virtual Volumes are meeting traditional challenges. The discussion on architecture emphasizes the economies of storage alongside specific design factors for next-generation VMware based storage solutions, and is followed by an example in which a solution is created based on the preferred option identified from a selection of cross-site design options. Storage hardware lifecycle management is an ongoing challenge for IT organizations and service providers. VMware is addressing these challenges through the software-defined storage model and Virtual SAN and Virtual Volumes technologies; this book provides unprecedented detail and expert guidance on the future of storage. Understand the architectural design factors of VMware-based storage Learn best practices for Virtual SAN stretched architecture implementation Deploy STaaS through vRealize Automation and vRealize Orchestrator Meet traditional storage challenges with next-generation storage technology Virtual SAN and Virtual Volumes are leading the way in efficiency, automation, and simplification, while maintaining enterprise-class features and performance. As organizations around the world are looking to cut costs without sacrificing performance, availability, or scalability, VMware-based next-generation storage solutions are the ideal platform for tomorrow's virtual infrastructure. VMware Software-Defined Storage provides detailed, practical guidance on the model that is set to transform all aspects of vSphere data center storage.

Mastering VMware Horizon 6 VMware Press

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 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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