

## Veeam Monitor User Guide

***This book is targeted at system engineers and system administrators who want to upgrade their knowledge and skills in high availability and want to learn practically how to achieve high availability with CentOS Linux. You are expected to have good CentOS Linux knowledge and basic networking experience.***

***A comprehensive guide for MCSA Exam 70-740, that will help you prepare from day one to earn the valuable Microsoft Certificate Key FeaturesLeverage practice questions and mock tests to pass this certification with confidenceLearn to Install Windows Servers,implement high availability, and monitor server environmentsGain necessary skills to implement and configure storage and compute featuresBook Description MCSA: Windows Server 2016 certification is one of the most sought-after certifications for IT professionals, which includes working with Windows Server and performing administrative tasks around it. This book is aimed at the 70-740 certification and is part of Packt's three-book series on MCSA Windows Server 2016 certification, which covers Exam 70-740, Exam 70-741, and Exam 70-742. This book will cover exam objectives for the 70-740 exam, and starting from installing and configuring Windows Server 2016, Windows Server imaging and deployment to configuring and managing disks and volumes, implementing and configuring server storage and implementing Hyper-V. At the end of each chapter you will be provided test questions to revise your learnings which will boost your confidence in preparing for the actual***

***certifications. By the end of this book, you will learn everything needed to pass the, MCSA Exam 70-740: Installation, Storage, and Compute with Windows Server 2016, certification. What you will learn Install Windows Server 2016 Upgrade and Migrate servers and workloads Implement and configure server storage Install and configure Hyper-V Configure the virtual machine (VM) settings Configure Hyper-V storage Configure Hyper-V networking Who this book is for This book is ideal for system administrators interested in installing and configuring storage and compute features with Windows Sever 2016 and aiming to pass the 70-740 certification. Some experience with Windows Server in an enterprise environment is assumed.***

***This book starts with the basic premise that a service is comprised of the 3Ps- products, processes, and people. Moreover, these entities and their sub-entities interlink to support the services that end users require to run and support a business. This widens the scope of any availability design far beyond hardware and software. It also increases t***

***Best Practices, How-Tos, and Technical Deep Dives for Working VMware VI4/VI3 Pros Maximum vSphere is the comprehensive, up-to-the-minute, working reference for everyone who plans, implements, or administers VMware virtual infrastructure. Authored by top VMware consultants, it brings together proven best practices, tips, and solutions for achieving outstanding performance and reliability in your production environment. This book brings together crucial knowledge you won't find anywhere else, including powerful new vSphere 4***

*techniques drawn from the experiences of dozens of advanced pra.*

*Enterprise Cloud epUB \_1*

*Everything you need to achieve 2V0-622 certification - with exam tips and exercises*

*Microsoft System Center Virtual Machine Manager 2012 Cookbook*

*Secure backup with Veeam 11 for defending your data and accelerating your data protection strategy*

*Mastering Veeam Backup & Replication 10*

*Implementing IBM Spectrum Virtualize for Public Cloud Version 8.3*

Object storage is the primary storage solution that is used in the cloud and on-premises solutions as a central storage platform for unstructured data. IBM® Cloud Object Storage (COS) is a software-defined storage platform that breaks down barriers for storing massive amounts of data by optimizing the placement of data on commodity x86 servers across the enterprise. This IBM Redbooks® publication describes the major features, use case scenarios, deployment options, configuration details, initial customization, performance, and scalability considerations of IBM Cloud® Object Storage on-premises offering. For more information about the IBM Cloud Object Storage architecture and technology that is behind the product, see *IBM Cloud Object Storage Concepts and Architecture: System Edition, REDP-5537-02*. The target audience for this publication is IBM Cloud Object Storage IT specialists and storage administrators.

The amount of data being generated, processed, and stored has reached unprecedented

levels. Even during the recent economic crisis, there has been no slow down or information recession. Instead, the need to process, move, and store data has only increased. Consequently, IT organizations are looking to do more with what they have while supporting gr

Automate your computing systems with Puppet, the popular configuration management framework. Through code samples and real-world examples, this concise introduction shows you how to use Puppet tools and templates to organize and execute configuration plans on your \*nix servers. Learn how to manage pools of servers and virtual instances, and discover how Puppet helps you administer access control. If you're familiar with system administration and Ruby language basics, this book is the ideal way to get up to speed on this open source framework. Install Puppet and learn its manifest syntax and built-in functions Store configurations in a central location with Puppet Master, and define which configurations apply to which nodes Build a framework to create user accounts in place of LDAP or Kerberos KDC Apply techniques to execute and manage server configurations with MCollective Use Puppet as an auditing tool to ensure that configurations are correct Gather information on the nodes you manage with the Facter library

Improve Manageability, Flexibility, Scalability, and Control with Hyperconverged Infrastructure Hyperconverged infrastructure (HCI) combines storage, compute, and networking in one unified system, managed locally or from the cloud. With HCI, you can

**leverage the cloud's simplicity, flexibility, and scalability without losing control or compromising your ability to scale. In Hyperconverged Infrastructure Data Centers, best-selling author Sam Halabi demystifies HCI technology, outlines its use cases, and compares solutions from a vendor-neutral perspective. He guides you through evaluation, planning, implementation, and management, helping you decide where HCI makes sense, and how to migrate legacy data centers without disrupting production systems. The author brings together all the HCI knowledge technical professionals and IT managers need, whether their background is in storage, compute, virtualization, switching/routing, automation, or public cloud platforms. He explores leading solutions including the Cisco HyperFlex platform, VMware vSAN, Nutanix Enterprise Cloud, Cisco Application-Centric Infrastructure (ACI), VMware's NSX, the open source OpenStack and Open vSwitch (OVS) / Open Virtual Network (OVN), and Cisco CloudCenter for multicloud management. As you explore discussions of automation, policy management, and other key HCI capabilities, you'll discover powerful new opportunities to improve control, security, agility, and performance. Understand and overcome key limits of traditional data center designs Discover improvements made possible by advances in compute, bus interconnect, virtualization, and software-defined storage Simplify rollouts, management, and integration with converged infrastructure (CI) based on the Cisco Unified Computing System (UCS) Explore HCI functionality, advanced capabilities, and benefits Evaluate key HCI applications, including DevOps, virtual desktops, ROBO, edge computing, Tier 1**

**enterprise applications, backup, and disaster recovery Simplify application deployment and policy setting by implementing a new model for provisioning, deployment, and management Plan, integrate, deploy, provision, manage, and optimize the Cisco HyperFlex hyperconverged infrastructure platform Assess alternatives such as VMware vSAN, Nutanix, open source OpenStack, and OVS/OVN, and compare architectural differences with HyperFlex Compare Cisco ACI (Application- Centric Infrastructure) and VMware NSX approaches to network automation, policies, and security 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.**

**Briggs**

**The TOGAF ® Standard, Version 9.2**

**Maximum vSphere?**

**Official Certification Study Guide (Exam HPE0-V14)**

**Mastering VMware vSphere 6.5**

**High Availability IT Services**

'System Center Operations Manager 2012 Unleashed' joins Sams' market-leading series of books on Microsoft's System Center product suite: books that have achieved go-to status amongst IT implementers and administrators worldwide. The book provides coverage of planning, installation, and migration; configuration; and much

more --

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 [vmwarepress.com](http://vmwarepress.com)  
[vmware.com/go/vcdx](http://vmware.com/go/vcdx)

The TOGAF® Standard, a standard of The Open Group, is a proven Enterprise Architecture methodology and framework used by the world ' s leading organizations to improve business efficiency. It is the most prominent and reliable Enterprise Architecture standard, ensuring consistent standards, methods, and communication among Enterprise Architecture professionals. Those professionals fluent in the TOGAF approach enjoy greater industry credibility, job effectiveness, and career opportunities. The TOGAF approach helps practitioners avoid being locked into proprietary methods, utilize resources more efficiently and effectively, and realize a greater return on investment.

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. 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 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

Government Reports Announcements & Index

HPE ATP - Hybrid IT Solutions V2

Protect your virtual environment and implement cloud backup using Veeam technology

Microsoft System Center Operations Manager Field Experience

Mastering VMware vSphere 6.7

IBM Cloud Object Storage System Product Guide

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.

Mastering Veeam Backup & Replication  
Secure backup with Veeam 11 for defending your data and accelerating your data protection strategy  
Packt Publishing Ltd  
Learn the intricacies of managing Azure AD, Azure AD Connect as well as Active Directory for administration on cloud and Windows Server 2019 Key Features  
Expert solutions for the federation, certificates, security, and monitoring with Active Directory  
Explore Azure AD and AD Connect for effective administration on cloud  
Automate security tasks using Active Directory and PowerShell  
Book Description Active Directory is an administration system for Windows administrators to automate network, security and access management tasks in the Windows infrastructure. This book starts off with a detailed focus on forests, domains, trusts, schemas and partitions. Next, you learn how to manage domain controllers, organizational units and the default containers. Going forward, you deep dive into managing Active Directory sites as well as identifying and solving

replication problems. The next set of chapters covers the different components of Active Directory and discusses the management of users, groups and computers. You also go through recipes that help you manage your Active Directory domains, manage user and groups objects and computer accounts, expiring group memberships and group Managed Service Accounts with PowerShell. You learn how to work with Group Policy and how to get the most out of it. The last set of chapters covers federation, security and monitoring. You will also learn about Azure Active Directory and how to integrate on-premises Active Directory with Azure AD. You learn how Azure AD Connect synchronization works, which will help you manage Azure AD. By the end of the book, you have learned in detail about Active Directory and Azure AD, too. What you will learn

Manage new Active Directory features, such as the Recycle Bin, group Managed Service Accounts, and fine-grained password policies

Work with Active Directory from the command line and use Windows PowerShell to automate tasks

Create and remove forests, domains, and trusts

Create groups, modify group scope and type, and manage memberships

Delegate control, view and modify permissions

Optimize Active Directory and Azure AD in terms of security

Who this book is for This book will cater to administrators of existing Active Directory Domain Services environments and/or Azure AD tenants, looking for guidance to optimize their day-to-day effectiveness. Basic networking and Windows Server Operating System knowledge would come in handy.

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.

Cloud and Virtual Data Storage Networking

Getting Started with Microsoft System Center Operations Manager

Hyper-V 2016 Best Practices

27th Annual Report

Installation, Storage, and Compute with Windows Server 2016: Microsoft 70-740

MCSA Exam Guide

Design a virtualized data center with VMware vSphere 6.7

***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 11Master application optimization based on Veeam best practicesGet to grips with configuring CDP and working with repositories and proxiesExplore ways to protect your backups with immutable hardened repositoriesUnderstand the enhancements to backups, instant recovery, and Linux proxiesExplore Veeam ONE enhancementsBecome well-versed in using Veeam Disaster Recovery OrchestratorWho 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. Unleash the benefits of VMware vSphere 6.7 to provide a powerful, flexible and secure digital infrastructure Key FeaturesDeep dive into areas like management, security, scalability, availability and more with vSphere 6.7Design, deploy and manage VMware vSphere virtual datacentersImplement 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.**

***This is an easy-to-follow guide that will help you learn everything you need to know to administer backup, replication, and recovery in your VMware vSphere environment, with Veeam Backup and Replication. This book is aimed at VMware vSphere administrators looking to protect their infrastructure by utilizing the world's leading modern data protection solution, specifically designed for virtual environments. A good understanding of VMware vSphere architecture is recommended, but prior knowledge of Veeam Backup and Replication is not required.***

***Gain proficiency in monitoring infrastructure along with focusing on cloud backup and recovery Key Features Explore the 3-2-1 rule of backups in Veeam to keep your data safe Gain in-depth knowledge of NAS backups and Scale-Out Repositories to use in your virtual environment Discover Veeam's monitoring and reporting utility - Veeam ONE - along with Linux and Windows proxy Book Description Veeam is one of the leading modern data protection solutions, and mastering this technology can help you to protect your virtual environments effectively. This book guides you through implementing modern data protection solutions for your cloud and virtual infrastructure with Veeam. You will even gain in-depth knowledge of advanced concepts such as DataLabs, cloud backup and recovery, Instant VM Recovery, and Veeam ONE. This book starts by taking you***

***through Veeam essentials, including installation, best practices, and optimizations for Veeam Backup & Replication. You'll get to grips with the 3-2-1 rule to safeguard data along with understanding how to set up a backup server, proxies, repositories, and more. Later chapters go on to cover a powerful feature of Veeam 10 – NAS backup. As you progress, you'll learn about scale-out Repositories and best practices for creating them. In the concluding chapters, you'll explore the new proxy option available in both Linux and Windows. Finally, you'll discover advanced topics such as DataLabs, cloud backup and recovery, Instant VM Recovery, and Veeam ONE. By the end of this book, you will be equipped with the skills you need to implement Veeam Backup & Replication for your environment and disaster recovery. What you will learn***

***Discover the advanced concepts of Veeam Backup & Replication 10Master application optimizations based on Veeam best practicesUnderstand how to configure NAS backups and work with repositories and proxiesExplore different ways to protect your backups, including object immutability and cloud backup and recoveryDiscover how DataLabs worksUnderstand how Instant VM Recovery allows you to restore virtual machinesBecome well versed in Veeam ONE for monitoring and reporting on your environmentWho 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.***

***Networking For Dummies***

***Learn PowerShell Scripting in a Month of Lunches***

***VCDX Boot Camp***

***CentOS High Availability***

***Demystifying HCI***

Summary Discover how scripting is different from command-line PowerShell, as you explore concrete hands-on examples in this handy guide. The book includes and expands on many of the techniques presented in Learn PowerShell Toolmaking in a Month of Lunches. Purchase of the print book includes a free eBook in PDF, Kindle, and ePub formats from Manning Publications. About the Technology Automate it! With Microsoft's PowerShell language, you can write scripts to control nearly every aspect of Windows. Just master a few straightforward scripting skills, and you'll be able to eliminate repetitive manual tasks, create custom reusable tools, and build effective pipelines and workflows. Once you start scripting in PowerShell, you'll be amazed at how many opportunities you'll find to

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save time and effort. About the Book Learn PowerShell Scripting in a Month of Lunches teaches you how to expand your command-line PowerShell skills into effective scripts and tools. In 27 bite-size lessons, you'll discover instantly useful techniques for writing efficient code, finding and squashing bugs, organizing your scripts into libraries, and much more. Advanced scripters will even learn to access the .NET Framework, store data long term, and create nice user interfaces. What's Inside Designing functions and scripts Effective pipeline usage Dealing with errors and bugs Professional-grade scripting practices About the Reader Written for devs and IT pros comfortable with PowerShell and Windows. About the Authors Don Jones is a PowerShell MVP, speaker, and trainer who has written dozens of books on information technology topics. Jeffery Hicks is a PowerShell MVP and an independent consultant, trainer, and author. Don and Jeff coauthored Manning's Learn Windows PowerShell in a Month of Lunches, Learn PowerShell Toolmaking in a Month of Lunches, and PowerShell in Depth. Table of Contents PART 1 - INTRODUCTION TO SCRIPTING Before you begin Setting up your scripting environment WWPDP: what would PowerShell do? Review: parameter binding and the PowerShell pipeline Scripting language crash course The many forms of scripting (and which to use) Scripts and security PART 2 - BUILDING A POWERSHELL SCRIPT Always design first Avoiding bugs: start with a command Building a

basic function and script module Going advanced with your function  
Objects: the best kind of output Using all the pipelines Simple help:  
making a comment Dealing with errors Filling out a manifest PART 3 -  
GROWN-UP SCRIPTING Changing your brain when it comes to scripting  
Professional-grade scripting An introduction to source control with  
git Pestering your script Signing your script Publishing your script  
PART 4 - ADVANCED TECHNIQUES Squashing bugs Making script output  
prettier Wrapping up the .NET Framework Storing data-not in Excel!  
Never the end

IBM® Spectrum Virtualize is a key member of the IBM Spectrum™ Storage portfolio. It is a highly flexible storage solution that enables rapid deployment of block storage services for new and traditional workloads, on-premises, off-premises and in a combination of both. IBM Spectrum Virtualize™ for Public Cloud provides the IBM Spectrum Virtualize functionality in IBM Cloud™. This new capability provides a monthly license to deploy and use Spectrum Virtualize in IBM Cloud to enable hybrid cloud solutions, offering the ability to transfer data between on-premises private clouds or data centers and the public cloud. This IBM Redpaper™ publication gives a broad understanding of IBM Spectrum Virtualize for Public Cloud architecture and provides planning and implementation details of the common use cases for this product. This publication helps storage and networking administrators

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plan and implement install, tailor, and configure IBM Spectrum Virtualize for Public Cloud offering. It also provides a detailed description of troubleshooting tips. IBM Spectrum Virtualize is also available on AWS. For more information, see Implementation guide for IBM Spectrum Virtualize for Public Cloud on AWS, REDP-5534.

Annotation This is an official guide to VMware's new VMware Certified Professional - Desktop (VCP-DT) exam covering VMware and the fast-growing topic of desktop virtualization. Organized to follow VMware's exam blueprint, the book is designed to be engaging and enjoyable.

Go-to guide for using Microsoft's updated Hyper-V as a virtualization solution Windows Server 2012 Hyper-V offers greater scalability, new components, and more options than ever before for large enterprises systems and small/medium businesses. Windows Server 2012 Hyper-V Installation and Configuration Guide is the place to start learning about this new cloud operating system. You'll get up to speed on the architecture, basic deployment and upgrading, creating virtual workloads, designing and implementing advanced network architectures, creating multi-tenant clouds, backup, disaster recovery, and more. The international team of expert authors offers deep technical detail, as well as hands-on exercises and plenty of real-world scenarios, so you thoroughly understand all features and how best to use them. Explains how to deploy, use, manage, and maintain

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the WindowsServer 2012 Hyper-V virtualization solutions in large enterprisesand small- to medium-businesses Provides deep technical detail and plenty of exercises showingyou how to work with Hyper-V in real-world settings Shows you how to quickly configure Hyper-V from the GUI and usePowerShell to script and automate common tasks Covers deploying Hyper-V hosts, managing virtual machines,network fabrics, cloud computing, and using file servers Also explores virtual SAN storage, creating guest clusters,backup and disaster recovery, using Hyper-V for Virtual DesktopInfrastructure (VDI), and other topics Help make your Hyper-V virtualization solution a success withWindows Server 2012 Hyper-V Installation and ConfigurationGuide.

VCP6-DCV Official Cert Guide (Exam #2VO-621)

Microsoft System Center Data Protection for the Hybrid Cloud

VCP5-DT Official Cert Guide

Leverage the power of vSphere for effective virtualization, administration, management and monitoring of data centers

Effectively deploy, manage, and monitor your virtual datacenter with VMware vSphere 6.7, 2nd Edition

Office 365 For Dummies

This work has been selected by scholars as being culturally important and is part of the knowledge base of civilization as we know it. This work is in the public domain in the United States of America, and possibly other nations. Within the United States, you may freely copy and distribute this work, as no

entity (individual or corporate) has a copyright on the body of the work. Scholars believe, and we concur, that this work is important enough to be preserved, reproduced, and made generally available to the public. To ensure a quality reading experience, this work has been proofread and republished using a format that seamlessly blends the original graphical elements with text in an easy-to-read typeface. We appreciate your support of the preservation process, and thank you for being an important part of keeping this knowledge alive and relevant.

Everything you need to get productive in the Cloud with Office 365 With 70 million users worldwide, Microsoft Office 365 combines the familiar Office desktop suite with cloud-based versions of Microsoft's next-generation communications and collaboration services. It offers many benefits including security, reliability, compatibility with other products, over-the-air updates in the cloud that don't require anything from the user, single sign on for access to everything right away, and so much more. Office 365 For Dummies offers a basic overview of cloud computing and goes on to cover Microsoft cloud solutions and the Office 365 product in a language you can understand. This includes an introduction to each component which leads into topics around using each feature in each application. Get up to speed on instant messaging Use audio, video, and web conferencing Get seamless access to the Office suite with Office Web apps Access information anywhere, anytime Office 365 is the key to office productivity — and now you can put it to use for you!

Deploy and configure vSphere infrastructure and learn to effectively create and administer vSphere virtual machines Key Features Implement advanced network virtualization techniques Configure and administer vSphere high availability Enhance your data center virtualization skills with practice questions and mock tests Book Description This exam guide enables you to install, configure, and manage the vSphere 6.5 infrastructure in all its components: vCenter Server, ESXi hosts, and virtual

machines, while helping you to prepare for the industry standard certification. This data center book will assist you in automating administration tasks and enhancing your environment ' s capabilities. You will begin with an introduction to all aspects related to security, networking, and storage in vSphere 6.5. Next, you will learn about resource management and understand how to back up and restore the vSphere 6.5 infrastructure. As you advance, you will also cover troubleshooting, deployment, availability, and virtual machine management. This is followed by two mock tests that will test your knowledge and challenge your understanding of all the topics included in the exam. By the end of this book, you will not only have learned about virtualization and its techniques, but you ' ll also be prepared to pass the VCP6.5-DCV (2V0-622) exam. What you will learn

- Deploy and configure vSphere infrastructure
- Create and administer vSphere virtual machines
- Optimize, secure, and troubleshoot all vSphere components
- Implement vSphere HA on a vSAN cluster
- Understand how to back up and restore your vSphere 6.5 infrastructure
- Test your understanding of key concepts required through sample questions

Who this book is for If you are interested in achieving Data Center Virtualization certification, this is the book is for you. You will also benefit from this book if you are a system administrator or network engineer. Some prior knowledge of virtualization can assist you in understanding key concepts covered in the book.

Maximize your administration skills effectively and efficiently

- Key Features
- Implement cost-effective virtualization solutions for your organization with actionable recipes
- Explore the concepts of VMM with real-world use cases
- Use the latest features with VMM 2016 such as Cluster OS Rolling Upgrade, Guarded Fabric and Storage Spaces

Direct Book Description Virtual Machine Manager (VMM) 2016 is part of the System Center suite to configure and manage datacenters and offers a unified management experience on-premises and Azure cloud. This book will be your best companion for day-to-day

## Read Online Veeam Monitor User Guide

virtualization needs within your organization, as it takes you through a series of recipes to simplify and plan a highly scalable and available virtual infrastructure. You will learn the deployment tips, techniques, and solutions designed to show users how to improve VMM 2016 in a real-world scenario. The chapters are divided in a way that will allow you to implement the VMM 2016 and additional solutions required to effectively manage and monitor your fabrics and clouds. We will cover the most important new features in VMM 2016 across networking, storage, and compute, including brand new Guarded Fabric, Shielded VMs and Storage Spaces Direct. The recipes in the book provide step-by-step instructions giving you the simplest way to dive into VMM fabric concepts, private cloud, and integration with external solutions such as VMware, Operations Manager, and the Windows Azure Pack. By the end of this book, you will be armed with the knowledge you require to start designing and implementing virtual infrastructures in VMM 2016. What you will learn

- Plan and design a VMM architecture for real-world deployment
- Configure fabric resources, including compute, networking, and storage
- Create and manage Storage Spaces Direct clusters in VMM
- Configure Guarded Fabric with Shielded VMs
- Create and deploy virtual machine templates and multi-tier services
- Manage Hyper-V and VMware environments from VMM
- Enhance monitoring and management capabilities
- Upgrade to VMM 2016 from previous versions

Who this book is for If you are a solutions architect, technical consultant, administrator, or any other virtualization enthusiast who needs to use Microsoft System Center Virtual Machine Manager in a real-world environment, then this is the book for you.

IBM ProtecTIER Implementation and Best Practices Guide

Active Directory Administration Cookbook

Preparing for the VCDX Panel Defense

A complete guide to VxRail Appliance administration and configuration

Managing Infrastructure with Puppet

Implement and configure storage and compute functionalities in Windows Server 2016

***Part of a series of specialized guides on System Center, this book focuses on Microsoft System Center Operations Manager. For the seasoned professional, it covers the role of the Operations Manager product, the best practices for working with management packs, how to use the reporting feature to simplify managing the product, how to thoroughly troubleshoot, and how to use and install Operations Manager in the Microsoft Azure Public Cloud environment.***

***Understand and implement VMware Virtual SAN: the heart of tomorrow's Software-Defined Datacenter (SDDC) VMware's breakthrough Software-Defined Datacenter (SDDC) initiative can help you virtualize your entire datacenter: compute, storage, networks, and associated services. Central to SDDC is VMware Virtual SAN (VSAN): a fully distributed storage architecture seamlessly integrated into the hypervisor and capable of scaling to meet any enterprise storage requirement. Now, the leaders of VMware's wildly popular***

*Virtual SAN previews have written the first authoritative guide to this pivotal technology. You'll learn what Virtual SAN is, exactly what it offers, how to implement it, and how to maximize its value. Writing for administrators, consultants, and architects, Cormac Hogan and Duncan Epping show how Virtual SAN implements both object-based storage and a policy platform that simplifies VM storage placement. You'll learn how Virtual SAN and vSphere work together to dramatically improve resiliency, scale-out storage functionality, and control over QoS. Both an up-to-the-minute reference and hands-on tutorial, Essential Virtual SAN uses realistic examples to demonstrate Virtual SAN's most powerful capabilities. You'll learn how to plan, architect, and deploy Virtual SAN successfully, avoid gotchas, and troubleshoot problems once you're up and running. Coverage includes Understanding the key goals and concepts of Software-Defined Storage and Virtual SAN technology Meeting physical and virtual requirements for safe Virtual SAN implementation Installing and configuring*

*Virtual SAN for your unique environment Using Storage Policy Based Management to control availability, performance, and reliability Simplifying deployment with VM 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*

*This IBM® Redbooks® publication provides best practice guidance for planning, installing, configuring, and employing the IBM TS7600 ProtecTIER® family of products. It provides the latest best practices for the practical application of ProtecTIER Software Version 3.4. This latest release introduces the new ProtecTIER Enterprise Edition TS7650G DD6 model high performance server. This book also includes information about the revolutionary and patented IBM HyperFactor® deduplication engine, along with other*

*data storage efficiency techniques, such as compression and defragmentation. The IBM System Storage® TS7650G ProtecTIER Deduplication Gateway and the IBM System Storage TS7620 ProtecTIER Deduplication Appliance Express are disk-based data storage systems: The Virtual Tape Library (VTL) interface is the foundation of ProtecTIER and emulates traditional automated tape libraries. For your existing ProtecTIER solution, this guide provides best practices and suggestions to boost the performance and the effectiveness of data deduplication with regards to your application platforms for your VTL and FSI (systems prior to version 3.4). When you build a ProtecTIER data deduplication environment, this guide can help IT architects and solution designers plan for the best option and scenario for data deduplication for their environments. This book can help you optimize your deduplication ratio, while reducing the hardware, power and cooling, and management costs. This Redbooks publication provides expertise that was gained from an IBM ProtecTIER System Client Technical Specialist*

*(CTS), Development, and Quality Assurance teams. This planning should be done by the Sales Representative or IBM Business Partner, with the help of an IBM System CTS or IBM Solution Architect.*

*This is a Packt Cookbook, full with over 75 recipes for VMM users to carry out vital tasks quickly and easily. This book is written for solutions architects, technical consultants, administrators, and any other virtualization lover who needs to use Microsoft System Center Virtual Machine Manager in a real world environment.*

*Hyperconverged Infrastructure Data Centers*

*Essential Virtual San*

*Essential Virtual SAN (VSAN)*

*Implementing VxRail HCI Solutions*

*VCP6 Off Cert Gd (Cov ePub \_3*

*Learning Veeam® Backup & Replication for VMware vSphere*

*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 scale-out Explore*

**migration methodologies for VxRail systems**  
**Book 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 learn

- Set up the hardware and software requirements for a VxRail installation
- Monitor the status of VxRail appliances with the VxRail Manager plugin
- Get to grips with all the administration interfaces used to manage the VxRail appliance
- Understand vCenter roles and permissions management in the VxRail cluster
- Discover best practices for vSAN configuration in the VxRail cluster
- Find out about VxRail cluster scale-out rules and how to expand the VxRail cluster
- Deploy active-passive solutions for VxRail with VMware Site Recovery Manager (SRM)

Who this 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.**

**How do you start? How should you build a plan for cloud migration for your entire portfolio? How will your organization be affected by these changes? This book, based on real-world cloud experiences by enterprise IT teams, seeks to provide the answers to these questions. Here, you'll see what makes the cloud so compelling to enterprises; with which applications you should start your cloud journey; how your organization will change, and how skill sets will evolve; how to measure progress; how to think about security, compliance, and business buy-in; and how to exploit the ever-growing feature set that the cloud offers to gain strategic and competitive advantage.**

**Part of a series of specialized guides on System Center, this book helps you optimize your System Center Data Protection Manager environment. It focuses on best practices, design concepts, how-to procedures, and in-depth technical troubleshooting.**

**VMware 2V0-620 and 2V0-621 exams retired in 2019. We are continuing to make this content available for those who wish to use it to study the foundational information it contains. Trust the Official Cert Guide series from VMware Press**

to help you learn, prepare, and practice for exam success. They are the only VMware authorized self-study books and are built with the objective of providing assessment, review, and practice to help ensure you are fully prepared for your certification exam. Master VMware certification exam topics Assess your knowledge with chapter-opening quizzes Review key concepts with exam preparation tasks This is the eBook edition of The VCP6-DCV Official Cert Guide. This eBook does not include the practice exam that comes with the print edition. The VCP6-DCV Official Cert Guide presents you with an organized test preparation routine through the use of proven series elements and techniques. “Do I Know This Already?” quizzes open each chapter and enable you to decide how much time you need to spend on each section. Exam topic lists make referencing easy. Chapter-ending Exam Preparation Tasks help you drill on key concepts you must know thoroughly. The VCP6-DCV Official Cert Guide focuses specifically on the objectives for the VMware Certified Professional 6 – Data Center Virtualization (VCP6-DCV #2VO-621) exam. Leading VMware consultants, trainers, and data center 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. Well-regarded for its level of detail,

**assessment features, comprehensive design scenarios, and challenging review questions and exercises, this official study guide helps you master the concepts and techniques that will enable you to succeed on the exam the first time. The official study guide helps you master all the topics on the VCP6-DCV (#2VO-621) exam, including: Securing vSphere environments Implementing advanced network virtualization policies, features, and Network I/O control (NIOC) Configuring and using VMware storage protocols, VSAN and VVOL software-defined storage, ESXi host interactions, and Storage I/O Control (SIOC) Upgrading vSphere deployments to 6.x, including vCenter Server and ESXi Hosts Planning and using Resource Pools Implementing backup/recovery with VMware Data Protection and vSphere Replication Troubleshooting performance, storage, networks, upgrades, clusters, and more Successfully configuring Auto Deploy environments with host profiles and virtualized workloads Configuring and administering vSphere high availability Using advanced VM settings, content libraries, and vCloud Air connectors The VCP6-DCV Official Cert Guide is part of a recommended learning path from VMware that includes simulation and hands-on training from authorized VMware instructors and self-study products from VMware Press. To find out more about instructor-led training, e-learning, and hands-on instruction offered worldwide, please visit [www.vmware.com/training](http://www.vmware.com/training).**

### **Administrator's Guide to VMware Vsan**

### **Mastering Veeam Backup & Replication**

### **Design, configure, and manage an efficient virtual infrastructure with VMM in System Center 2016, 3rd Edition**

### **Data Center Virtualization Certification: VCP6.5-DCV Exam Guide**

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

### **The Complete VMware vSphere Guide**

Set up a secure network at home or the office Fully revised to cover Windows 10 and Windows Server 2019, this new edition of the trusted Networking For Dummies helps both beginning network administrators and home users to set up and maintain a network. Updated coverage of broadband and wireless technologies, as well as storage and back-up procedures, ensures that you'll learn how to build a wired or wireless network, secure and optimize it, troubleshoot problems, and much more. From connecting to the Internet and setting up a wireless network to solving networking problems and backing up your data—this #1 bestselling guide covers it all. Build a wired or wireless network Secure and optimize your network Set up a server and manage Windows user accounts Use the cloud—safely Written by a seasoned technology author—and jam-packed with tons of helpful step-by-step instructions—this is the book network

administrators and everyday computer users will turn to again and again. Harness the power of Hyper-V 2016 to build high-performance infrastructures that suit your needs About This Book Design and build a reliable and efficient Hyper-V infrastructure. Fine-tune your Hyper-V performance by adopting network and storage best practices. Manage, monitor, and protect your workloads with System Center and Microsoft Azure. Who This Book Is For If you are working with Hyper-V and want to optimize its performance and effectiveness, this book is for you. This book will help you close the gap between the Hyper-V lab and production environments. What You Will Learn Automate and accelerate the deployment of Hyper-V host and nano servers Create high availability solutions using failover clustering Design redundant solutions with Hyper-V Replica Protect your workloads by making a backup or learning disaster recovery Use the best practices of network and storage Master the performance and scalability of storage virtualization Migrate your existing virtualization workloads to Hyper-V2016 Manage your Hyper-V stack with System Center and Azure Bridge the gap between the Hyper-V lab and production environment In Detail Hyper-V Server and Windows Server 2016 with Hyper-V provide best-in-class virtualization capabilities. Hyper-V is a Windows-based, very cost-effective virtualization solution with easy-to-use

and well-known administrative consoles. This book will assist you in designing, implementing, and managing highly effective and highly available Hyper-V infrastructures. With an example-oriented approach, this book covers all the different tips and suggestions to configure Hyper-V and provides readers with real-world proven solutions. This book begins by deploying single clusters of High Availability Hyper-V systems including the new Nano Server. This is followed by steps to configure the Hyper-V infrastructure components such as storage and network. It also touches on necessary processes such as backup and disaster recovery for optimal configuration. The book does not only show you what to do and how to plan the different scenarios, but it also provides in-depth configuration options. These scalable and automated configurations are then optimized via performance tuning and central management ensuring your applications are always the best they can be. Style and approach This book covers Hyper-V best practices in a step-by-step manner with clear and concise examples. A beginner's guide to help you design, deploy and administer your System Center Operations Manager 2016 and 2012 R2 environments About This Book Discover how to monitor complex IT environments with System Center Operations Manager using tips, tricks and best practice recommendations from industry experts. Learn how to create eye-catching dashboards and

reports to help deliver a tangible return on investment back to your organization. Optimize, troubleshoot and perform disaster recovery in Operations Manager using step by step examples based on real-world scenarios. Who This Book Is For The target audience for this book is the IT Pro or System Administrator who wants to deploy and use System Center Operations Manager but has no previous knowledge of the product. As a 'Getting Started' book, our primary objective is to equip you with the knowledge you need to feel comfortable when working with common monitoring scenarios in OpsMgr. With this in mind, deep-diving into less-common OpsMgr features such as Audit Collection Services (ACS), Agentless Exception Monitoring (AEM) and Application Performance Monitoring (APM) has been intentionally omitted. What You Will Learn Install a new System Center 2016 Operations Manager Management Group Design and provision custom views to relevant support teams. Understand how to deploy agents Work with management packs Monitor network devices Model your IT services with distributed applications Create dashboards and custom visualizations Tune, optimize, maintain and troubleshoot System Center Operations Manager In Detail Most modern IT environments comprise a heterogeneous mixture of servers, network devices, virtual hypervisors, storage solutions, cross-platform operating systems and applications. All this

complexity brings a requirement to deliver a centralized monitoring and reporting solution that can help IT administrators quickly identify where the problems are and how best to resolve them. Using System Center Operations Manager (OpsMgr), administrators get a full monitoring overview of the IT services they have responsibility for across the organization - along with some useful management capabilities to help them remediate any issues they've been alerted to. This book begins with an introduction to OpsMgr and its core concepts and then walks you through designing and deploying the various roles. After a chapter on exploring the consoles, you will learn how to deploy agents, work with management packs, configure network monitoring and model your IT services using distributed applications. There's a chapter dedicated to alert tuning and another that demonstrates how to visualize your IT using dashboards. The final chapters in the book discuss how to create alert subscriptions, manage reports, backup and recover OpsMgr, perform maintenance and troubleshoot common problems. Style and approach A beginner's guide that focuses on providing the practical skills required to effectively deploy and administer OpsMgr with walkthrough examples and tips on all the key concepts.

System Center 2016 Virtual Machine Manager Cookbook,  
System Center 2012 Operations Manager Unleashed

## Administrator's Guide to VMware Virtual SAN

Actionable, proven solutions to identity management and authentication on servers and in the cloud