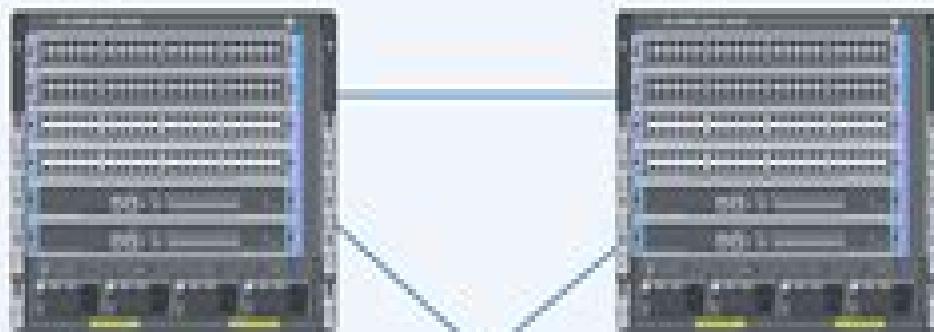Core Layer

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Mastering Vmware Vsphere 6

Andrea Mauro,Paolo Valsecchi,Karel Novak

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Mastering VMware vSphere 6 Nick Marshall,2015-04-06 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 6.7 Martin Gavanda,Andrea Mauro,Paolo Valsecchi,Karel Novak,2019-03-07 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 easeBook 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 learnExplore the

immense functionality of vSphere 6 7Design manage and administer a virtualization environmentGet tips for the VCP6 DCV and VCIX6 DCV examsUnderstand how to implement different migration techniques across different environmentsExplore vSphere 6 7s powerful capabilities for patching upgrading and managing the configuration of virtual environments Understand core vSphere componentsMaster resource management disaster recovery troubleshooting monitoring and securityWho this book is for This book is for Administrators Infrastructure Engineers Architects and Consultants with basic knowledge of VMware vSphere **Mastering Vmware Vsphere 6.5** Andrea Mauro,Paolo Valsecchi,Karel Novak,2017-12-15 Deliver great business value by adopting the virtualization platform VMware vSphere 6 5 from the design to the deploymentAbout 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 ForIf 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 DetailVMware 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 ApproachThis book acts as a reference guide providing real world scenarios and a possible baseline for each virtualization project based on VMware vSphere **Mastering VMware vSphere 6.5** Andrea Mauro,Paolo Valsecchi,Karel Novak,2017-12-15 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   Mastering VMware VSphere 6.5 Atindra Chaturvedi,2017 VMware vSphere 6 is a powerful server virtualization platform that enables best performance efficiency and availability for your infrastructure It is adaptive by nature and effectively aligns your business requirements to the IT infrastructure This advanced level tutorial will empower you to virtualize any application with ease as we will be covering all the latest enhancements and advanced functionalities of vSphere hypervisor Virtual Machines vCenter Server virtual storage and security We will teach you how to enhance and monitor vSphere performance by optimizing your virtual environment and solving performance issues We will also teach you how to upgrade your legacy vSphere to the latest version along with troubleshooting techniques We will demonstrate various command line actions that can help you to configure and manage storage for ESXi hosts in your data center virtual machine networking monitoring hosts adding third party extensions performing virtual machine operations and many more Basically command line will enable you to automate deployment and various other management tasks Resource description page

Mastering VMware Horizon 7 Peter von Oven,Barry Coombs,2016-10-14 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   Mastering VMware Horizon 7.8 Peter von Oven,Barry Coombs,2019-03-28 Discover advanced virtualization techniques and strategies to deliver centralized desktop and application services Key FeaturesLeverage advanced desktop virtualization techniques and strategies to transform your organization Build better virtualized services for your users with VMware Horizon 7 8Develop and deploy end to end virtualized solutionsBook Description Desktop virtualization can be tough but VMware Horizon 7 8 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 and 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 it 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 the mobile cloud so that you can use them to take full control of your virtualized infrastructure What you will learnSuccessfully configure Horizon 7 8 for the needs of your usersDeliver virtual desktops session based desktops and hosted applicationsBecome familiar with how to develop and deploy a complete end to end solutionDiscover how to optimize desktop OS images for virtual desktopsBuild optimize and tune desktop operating systems to deliver a superior end user experienceExplore the Horizon 7 8 infrastructure so that you can take full advantage of itWho this book is for This book is ideal for system admins and solution architects interested in gaining hands on experience with virtualization It will take you to an advanced level but at a pace that ensures you are always solving real world problems 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 is necessary   *Mastering VMware vSphere 5.5* Scott Lowe,Nick Marshall,2013-10-16 The 2013 edition of the bestselling vSphere book on the market Virtualization remains the hottest trend in the IT world and VMware vSphere is the industry s most widely deployed virtualization solution The demand for IT professionals skilled in virtualization and cloud related technologies is great and expected to keep growing This comprehensive Sybex guide covers all the features and capabilities of VMware vSphere showing administrators step by step how to install configure operate manage and secure it This perfect blend of hands on instruction conceptual explanation and practical application is reinforced with real world examples Led by Scott Lowe and Nick Marshall both VMware vExperts the author team provides expertise that will prepare IT professionals to excel in using this virtualization technology Virtualization is seen as a best practice for high availability and disaster recovery solutions as well as for applications such as Exchange Server and SharePoint IDC estimates that there are as many as 7 million jobs available worldwide in virtualization and cloud technology Provides hands on instruction in all the latest features and capabilities of VMware vSphere with both conceptual explanations and practical applications Author team is lead by Scott Lowe and Nick Marshall well known VMware experts and popular bloggers Mastering VMware vSphere provides what every virtualization professional needs to know   **Mastering VMware vSphere 5** Scott Lowe,2011-09-29 A new and updated edition of bestselling Mastering VMware vSphere 4 Written by leading VMware expert this book covers all the features and capabilities of VMware vSphere You ll learn how to install configure operate manage and secure the latest release Covers all

the new features and capabilities of the much anticipated new release of VMware vSphere Discusses the planning installation operation and management for the latest release Reviews migration to the latest vSphere software Offers hands on instruction and clear explanations with real world examples Mastering VMware vSphere is the strategic guide you need to maximize the opportunities of virtualization   Mastering VMware vSphere 4 Scott Lowe,2010-10-26 As part of the highly acclaimed Mastering series from Sybex this book offers a comprehensive look at VMware vSphere 4 how to implement it and how to make the most of what it offers Coverage Includes Shows administrators how to use VMware to realize significant savings in hardware costs while still providing adequate servers for their users Demonstrates how to partition a physical server into several virtual machines reducing the overall server footprint within the operations center Explains how VMware subsumes a network to centralize and simplify its management thus alleviating the effects of virtual server sprawl Now that virtualization is a key cost saving strategy Mastering VMware vSphere 4 is the strategic guide you need to maximize the opportunities   Virtualization and Private Cloud with VMware Cloud Suite Lee Chao,2017-03-16 To help readers understand virtualization and cloud computing this book is designed to cover the theories and concepts enough to understand the cutting edge technology Meanwhile in this book the reader can gain hands on skills on VMware Cloud Suite to create a private cloud With the academic support from VMware readers can use the VMware supported software to create various virtualized IT infrastructures sophisticated enough for various sized enterprises Then the virtualized IT infrastructure can be made available to an enterprise through the private cloud services   VMware vSphere 6.5 Cookbook Abhilash G B,Cedric Rajendran,2018-01-22 Deploy and manage VMware vSphere 6 5 components with ease Key Features Simplified and to the point theory and practical recipes to deploy and manage vSphere 6 5 Discover the best ways to deploy stateless and stateful ESXi hosts and upgrade them Storage and network resource management Certificate management using VMCA Monitor the performance of a vSphere environment Book Description VMware vSphere is a complete and robust virtualization product suite that helps transform data centers into simplified on premises cloud infrastructures providing for the automation and orchestration of workload deployment and life cycle management of the infrastructure This book focuses on the latest release of VMware vSphere and follows a recipe based approach giving you hands on instructions required to deploy and manage a vSphere environment The book starts with the procedures involved in upgrading your existing vSphere infrastructure to vSphere 6 5 followed by deploying a new vSphere 6 5 environment Then the book delves further into the procedures involved in managing storage and network access to the ESXi hosts and the virtual machines running on them Moving on the book covers high availability and fair distribution utilization of clustered compute and storage resources Finally the book covers patching and upgrading the vSphere infrastructure using VUM certificate management using VMCA and finishes with a chapter covering the tools that can be used to monitor the performance of a vSphere infrastructure What you will learn Upgrade your existing vSphere environment or perform a fresh deployment Automate the deployment and

management of large sets of ESXi hosts in your vSphere Environment Configure and manage FC iSCSI and NAS storage and get more control over how storage resources are allocated and managed Configure vSphere networking by deploying host wide and data center wide switches in your vSphere environment Configure high availability on a host cluster and learn how to enable the fair distribution and utilization of compute resources Patch and upgrade the vSphere environment Handle certificate request generation and renew component certificates Monitor performance of a vSphere environment Who this book is for If you are a system administrator support professional or anyone interested in learning how to install configure and manage a vSphere environment then this book is for you This task oriented reference guide will also benefit consultants or infrastructure architects who design and deploy vSphere 6 5 environments   Data Center Virtualization Certification: VCP6.5-DCV Exam Guide Andrea Mauro,Paolo Valsecchi,2018-08-27 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

VMware vRealize Operations Essentials Matthew Steiner,2015-12-31 Harness the power of VMware vRealize Operations to efficiently manage your IT infrastructure About This Book Extract the optimum performance availability and capacity of your IT infrastructure with the help of vRealise Operations Manager Leverage the power of strategic reports to drive tactful decision making within the IT department A pragmatic guide to proficiently manage your applications and storage Who This Book Is For If you are a vSphere administrator and wish to optimize your virtual environment this book is

your go to guide on vRealize Operations As a vSphere administrator it is assumed that you have a good understanding of both physical and virtual infrastructure A basic knowledge of application monitoring and log analysis would be useful when we dive into the capabilities of the solution What You Will Learn Architect design and install vRealize Operations Migrate from the previous vCenter Operations Manager 5 x version configure vR Ops policies and create custom groups Use out of the box Dashboards Views and Reports and create your own customized Dashboards Views and Reports Apply the Alerting framework of Symptoms Recommendations and Actions and create your own Alerting content Leverage the power of Capacity Planning to maximize the utilization of your virtual infrastructure Manage the rest of your infrastructure including storage and applications with vRealize Operations Management Packs Extend the solution with vRealize Hyperic and Log Insight In Detail This book will enable you to deliver on the operational disciplines of Performance Health Capacity Configuration and Compliance by making the best use of solutions provided by vRealize Operations Starting with architecture design and sizing we will ensure your implementation of vRealize Operations is a success We will dive into the utilization of a solution to manage your vSphere infrastructure Then we will employ out of the box Dashboards and the very powerful Views and Reporting functionality of vRealize Operations to create your custom dashboards and address your reporting requirements Next we go through the Alerting framework and how Symptoms Recommendations and Actions are used to achieve efficient operations Later you will master the topic of Capacity Planning where we look at how important it is to craft appropriate policies to match your requirements and we ll consider attitude toward capacity risk which will aid you to build future project requirements into your capacity plans Finally we will look at extending the solution to manage Storage Applications and other IT infrastructures using Management Packs from Solution Exchange as well as how the solution can be enhanced with the integration of Log Insight Style and approach This book is a pragmatic step by step guide that will quickly build your knowledge of the key capabilities of vRealize Operations As well as learning about the solution we will provide you with real world examples that will help you customize and enhance your virtual environment **Virtualization Security** Dave Shackleford,2012-11-08 Securing virtual environments for VMware Citrix and Microsoft hypervisors Virtualization changes the playing field when it comes to security There are new attack vectors new operational patterns and complexity and changes in IT architecture and deployment life cycles What s more the technologies best practices and strategies used for securing physical environments do not provide sufficient protection for virtual environments This book includes step by step configurations for the security controls that come with the three leading hypervisor VMware vSphere and ESXi Microsoft Hyper V on Windows Server 2008 and Citrix XenServer Includes strategy for securely implementing network policies and integrating virtual networks into the existing physical infrastructure Discusses vSphere and Hyper V native virtual switches as well as the Cisco Nexus 1000v and Open vSwitch switches Offers effective practices for securing virtual machines without creating additional operational overhead for administrators Contains methods for integrating

virtualization into existing workflows and creating new policies and processes for change and configuration management so that virtualization can help make these critical operations processes more effective This must have resource offers tips and tricks for improving disaster recovery and business continuity security specific scripts and examples of how Virtual Desktop Infrastructure benefits security *Mastering VMware Horizon 6* Peter von Oven,Barry Coombs,2015-03-27 If you are working as a desktop admin part of a EUC team an architect or a consultant on a desktop virtualization project and you are looking to use VMware s Horizon solution this book is for you This book will demonstrate the new capabilities of Horizon 6 You should have experience in desktop management using Windows and Microsoft Office and be familiar with Active Directory SQL Windows Remote Desktop Session Hosting and VMware vSphere infrastructure ESXi and vCenter Server technology **Mastering VMware VSphere 6.7 - Second Edition** Martin Gavanda,Andrea Mauro,Paolo Valsecchi,Karel Novak,2019 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 VMware vSphere provides a powerful flexible and secure foundation for next generation applications and datacenters that help you with your digital transformation efficiently Mastering VMware vSphere 6 7 Second Edition begins by covering an overview of all the products solutions and features of the vSphere 6 7 suite comparing the evolutions with the previous releases You ll learn to design and plan a virtualization infrastructure to drive performance analysis and then proceed with the workflow and installation of components Along with new network trends that will help you in optimally designing the vSphere environment you will also learn the best practices involved in configuring and managing virtual machines in a vSphere infrastructure With vSphere 6 7 you ll make use of more powerful capabilities for patching upgrading and managing the configuration of the virtual environment The concluding chapters focus on core vSphere components as storage and network and you will learn all you need about resource management followed by topics as high availability and disaster recovery troubleshooting monitoring and security By the end the book you will discover different approaches on how to build your own VMware vSphere lab to help you run even the most demanding workloads What you will learn Get a deep understanding of vSphere 6 7 functionalities Design a virtualization environment based on VMware vSphere 6 7 Manage and administer a vSphere 6 7 environment and resources Get tips for the VCP6 DCV and VCIX6 DCV exams Implement different migration techniques across different environments Deploy and understand different concepts of VMware vSphere 6 7 lab Who this book is for If you are an administrator infrastructure engineer IT architect or an IT consultant who has basic knowledge of VMware vSphere and now wants to master it then this book is for you Downloading the example code for this book You can download the example code files for all Packt books you have purchased from your account at http www PacktPub com If you purchased this book elsewhere you can visit http www P

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