

VMware Hands On Labs NSX

Matt Liebowitz, Christopher Kusek, Rynardt Spies

The Complete VMware vSphere Guide Mike Brown, Hersey Cartwright, Martin Gavanda, Andrea Mauro, Karel Novak, Paolo Valsecchi, 2019-11-29 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.

Learning PowerCLI Robert van den Nieuwendijk, 2017-02-23 Learn to leverage the power of PowerCLI to automate your VMware vSphere environment with ease About This Book This is first book on the market that will enlighten you on the latest version of PowerCLI and how to implement it Effectively manage virtual machines, networks, and reports with the latest features of PowerCLI A comprehensive and practical book on automating VMware vSphere Who This Book Is For This book is ideal for you if you want to learn how to automate your VMware vSphere or vCloud infrastructure by getting the most out of PowerCLI. It's assumed that you have some experience in administrating a vSphere or vCloud environment. Knowledge of Microsoft's Windows PowerShell is not a prerequisite. What You Will Learn Explore PowerShell and PowerCLI cmdlets and their output objects See how to manage virtual machines and work with virtual networks Manage vCloud Director from PowerCLI Use Site Recovery Manager from PowerCLI to create a disaster recovery solution Manage NSX and vRealize Automation using REST API with PowerCLI Create and configure vSphere HA and DRS clusters Use vSphere Update Manager with PowerCLI to create patch baselines and scan hosts Explore reporting techniques to retrieve log files In Detail VMware vSphere PowerCLI, a free extension to Microsoft Windows PowerShell, enables you to automate the management of a VMware vSphere or vCloud environment. This book will show you how to automate your tasks and make your job easier. Starting with an introduction to the basics of PowerCLI, the book will teach you how to manage your vSphere and vCloud infrastructure from the command line. To help you manage a vSphere host overall, you will learn how to manage vSphere ESXi hosts, host profiles, host services, host firewall, and deploy and upgrade ESXi hosts using Image Builder and Auto Deploy. The next chapter will not only teach you how to create datastore and datastore clusters, but you'll also work with profile-driven and policy-based storage to manage your storage. To create a disaster recovery solution and retrieve information from vRealize Operations, you will learn how to use Site Recovery Manager and vRealize Operations respectively. Towards the end, you'll see how to use the REST APIs from PowerShell to manage NSX and vRealize Automation and create patch baselines, scan hosts against the baselines for missing patches, and re-mediate hosts. By the end of the book, you will be capable of using the best tool to automate the management and configuration of VMware vSphere. Style and approach This comprehensive book will teach system administrators everything about PowerCLI 6 and how to utilize it to automate VMware vSphere.

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 Features Deep dive into areas like management, security, scalability, availability and more with vSphere 6.7 Design, deploy and manage VMware vSphere virtual datacenters Implement monitoring and security of VMware workloads with ease Book Description vSphere 6.7 is the latest release of VMware's industry-leading, virtual cloud platform. It allows organisations to move to hybrid cloud computing by enabling them to run, manage, connect and secure applications in a common operating environment. This up-

to-date, 2nd edition provides complete coverage of vSphere 6.7. Complete with step-by-step explanations of essential concepts, practical examples and self-assessment questions, you will begin with an overview of the products, solutions and features of the vSphere 6.7 suite. You'll learn how to design and plan a virtual infrastructure and look at the workflow and installation of components. You'll gain insight into best practice configuration, management and security. By the end the book you'll be able to build your own VMware vSphere lab that can run even the most demanding of workloads. What you will learn

Explore the immense functionality of vSphere 6.7
Design, manage and administer a virtualization environment
Get tips for the VCP6-DCV and VCIX6-DCV exams
Understand how to implement different migration techniques across different environments
Explore vSphere 6.7's powerful capabilities for patching, upgrading and managing the configuration of virtual environments.
Understand core vSphere components
Master resource management, disaster recovery, troubleshooting, monitoring and security
Who this book is for
This book is for Administrators, Infrastructure Engineers, Architects, and Consultants with basic knowledge of VMware vSphere.

VMware vSphere Performance Matt Liebowitz, Christopher Kusek, Rynardt Spies, 2014-04-25
Covering the latest VMware vSphere software, an essential book aimed at solving vSphere performance problems before they happen VMware vSphere is the industry's most widely deployed virtualization solution. However, if you improperly deploy vSphere, performance problems occur. Aimed at VMware administrators and engineers and written by a team of VMware experts, this resource provides guidance on common CPU, memory, storage, and network-related problems. Plus, step-by-step instructions walk you through techniques for solving problems and shed light on possible causes behind the problems. Divulges troubleshooting methodologies, performance monitoring tools, and techniques and tools for isolating performance problems
Details the necessary steps for handling CPU, memory, storage, and network-related problems
Offers understanding on the interactions between VMware vSphere and CPU, memory, storage, and network
VMware vSphere Performance is the resource you need to diagnose and handle VMware vSphere performance problems, and avoid them in the future.

Ultimate VMware NSX for Professionals: Leverage Virtualized Networking, Security, and Advanced Services of VMware NSX for Efficient Data Management and Network Excellence Vinay Aggarwal, 2023-12-16
Unleash the Power of NSX Datacenter for Seamless Virtualization and Unparalleled Security
Key Features

- Gain a profound understanding of the core principles of network virtualization with VMware NSX.
- Step-by-step explanations accompanied by screenshots for seamless deployments and configurations.
- Explore the intricate architecture of vital concepts, providing a thorough understanding of the underlying mechanisms.
- Coverage of the latest networking and security features in VMware NSX 4.1.1, ensuring you're up-to-date with the most advanced capabilities.
- Reinforce your understanding of core concepts with convenient reviews of key terms at the end of each chapter, solidifying your knowledge.

Book Description
Embark on a transformative journey into the world of network virtualization with 'Ultimate VMware NSX for Professionals.' This comprehensive guide

crafted by NSX experts, starts with an exploration of Software Defined Networking, NSX architecture, and essential components in a systematic approach. It then dives into the intricacies of deploying and configuring VMware NSX, unraveling key networking features through detailed packet walks. The book then ventures into advanced security realms—from Micro-segmentation to IDS/IPS, NTA, Malware Prevention, NDR, and the NSX Application Platform. Traverse through Datacenter Services, mastering NAT, VPN, and Load Balancing, with insights into the fundamentals of NSX Advanced Load Balancer. The exploration extends into NSX Multisite and NSX Federation, offering a detailed examination of onboarding, configuration, and expert tips for monitoring and managing NSX environments. To enrich your practical knowledge, immerse yourself in hands-on experiences with NSX Labs or VMware's complimentary Hands-on Labs, link provided in the book. What you will learn ● Master the foundational concepts of VMware NSX Datacenter. ● Explore logical switching, logical routing, VRF, EVPN, and bridging. ● Enhance network security with Micro-segmentation and advanced threat prevention mechanisms. ● Understand and configure NSX Datacenter services such as NAT, VPN, DHCP, and DNS. ● Implement NSX Advanced Load Balancer for efficient load balancing solutions. ● Dive into NSX Multisite and Federation for managing deployments across multiple locations. ● Acquire monitoring and management skills, covering authentication, authorization, backups, and more. ● VMware's free Hands-on Labs for practical experience. Table of Contents 1. Introduction to NSX Datacenter 2. Deploying NSX Infrastructure 3. Logical Switching 4. Logical Routing - NSX Edge Nodes 5. Logical Routing - NSX Gateways 6. Logical Routing - VRF and EVPN 7. Logical Bridging 8. Security - Micro-segmentation 9. Security - Advanced Threat Prevention 10. Security - Network Detection and Response 11. NSX DataCenter Services - 1 12. NSX DataCenter Services - 2 13. NSX Multisite Deployment 14. Monitoring and Managing NSX Index

Ultimate VMware NSX for Professionals Vinay Aggarwal,2023-12-16 Embark on a transformative journey into the world of network virtualization with 'Ultimate VMware NSX for Professionals.' This comprehensive guide crafted by NSX experts, starts with an exploration of Software Defined Networking, NSX architecture, and essential components in a systematic approach. It then dives into the intricacies of deploying and configuring VMware NSX, unraveling key networking features through detailed packet walks. The book then ventures into advanced security realms—from Micro-segmentation to IDS/IPS, NTA, Malware Prevention, NDR, and the NSX Application Platform. Traverse through Datacenter Services, mastering NAT, VPN, and Load Balancing, with insights into the fundamentals of NSX Advanced Load Balancer. The exploration extends into NSX Multisite and NSX Federation, offering a detailed examination of onboarding, configuration, and expert tips for monitoring and managing NSX environments. To enrich your practical knowledge, immerse yourself in hands-on experiences with NSX Labs or VMware's complimentary Hands-on Labs, link provided in the book.

VMware NSX 6. 2 for VSphere Fundamentals Anthony Burke,Ron Fuller,Andreas la Quiante,Neil Moore,2017-03-15 This is the first definitive reference for all network and data center virtualization professionals planning, implementing, or

operating VMware NSX 6.2 for vSphere. It is the only NSX guide published by VMware, authored by VMware technical experts, and reflecting the experience of pioneering VMware NSX adopters representing a wide spectrum of environments, use cases, deployment sizes, and feature usage. Drawing on 50+ years of network, data center, and virtualization experience, the authors offer deep practical insights for maximizing the reliability and value of VMware NSX and the Software Defined Data Center (SDDC) in any data center environment. You'll master VMware NSX through practical hands-on labs and detailed configuration examples. Coverage includes: How VMware vSphere enables the agile, virtualized data center Establishing data center application and network topologies with VMware NSX Working with VMware NSX Manager, VMware NSX Controller, and clustering Defining logical switch networks with VXLAN Transforming routing architectures with the Distributed Logical Router (DLR) Implementing NSX edge routing and high availability Deploying each leading type of VPN with NSX Edge VPN services Balancing loads in your application topology Using additional NSX edge services, including Layer 2 bridging, NAT, and DHCP Securing your data center network with distributed firewalls Automating your security architecture for maximum efficiency Architecting, deploying, and migrating to Multi-vCenter NSX Monitoring, securing, and optimizing VMware NSX environments

NetAdmin 11/2021 190, 2021-11-02 NFT DeFi Blockchain Walmart IDC 2021 66 50% COVID-19 DDoS Cloud Workload Protection Platform CWPP Cloud Security Posture Management CSPM API Web App and API Protection WAAP Cloud Infrastructure Entitlement Management CIEM ASRC CVE-2018-0802 1.5 1.2 Apple Mac HTML IoT Ransomware DarkSide OT ICS Cybersecurity and Infrastructure Security Agency CISA Rising

Ransomware Threat to Operational Technology Assets PaaS / IaaS / SaaS IT VM HCI Mesh vSAN vSphere VMware vSphere 7 VMware 6 vSAN 7 Update 2 2021 3 vSphere 7 Update 2 vSAN vSAN 2-Nodes vSAN Stretched Cluster vSAN File Services vSAN 7 Update 2 2-Nodes vSAN vSAN File Services

Learning VMware NSX Ranjit Singh Thakurratan, 2017-08-24 Explore the foundational components of VMware NSX About This Book Install, manage, monitor and configure your NSX deployment. Understand VMware NSX's components and discover best practices to help you manage VMware NSX A step by step guide that will help you elevate your skills in deploying NSX to your environment Who This Book Is For The book is intended for network and system administrators that have hands on experience with VMware vSphere suite of products and would like to learn more about software defined networking and implementation of NSX. The readers are also expected to have basic networking knowledge and aware of basic switching and routing fundamentals. What You Will Learn Understand software-defined networks Deploy and configure VXLAN-enabled logical switches Secure your environment using Distributed Firewall and Data Security Configure third-party services in NSX Manage, configure, and deploy edge gateway services Perform various Edge operations including configuring CA certificates Explore the different monitoring options to check their traffic flow In Detail VMware NSX is a platform for the software-defined data center. It allows complex networking topologies to be deployed programmatically in seconds. SDNs allow ease of deployment, management, and automation in deploying and maintaining new networks while reducing and in some cases completely eliminating the need to deploy traditional networks. The book allows you a thorough understanding of implementing Software defined networks using VMware's NSX. You will come across the best practices for installing and configuring NSX to setup your environment. Then you will get a brief overview of the NSX Core Components NSX's basic architecture. Once you are familiar with everything, you will get to know how to deploy various NSX features. Furthermore, you will understand how to manage and monitor NSX and its associated services and features. In addition to this, you will also explore the best practices for NSX deployments. By the end of the book, you will be able to deploy VMware NSX in your own environment with ease. This book can come handy if you are preparing for VMware NSX certification. Style and approach This is an easy-to-follow guide with tested configuration steps to get you up and running quickly. This book covers the nitty-gritty of installing, configuring, managing, and monitoring VMware NSX.

VMware NSX Fundamentals Anthony la Quiante,2016 More Than 11 Hours of Video Instruction on NSX More than 11 hours of training on key NSX basics. Description VMware NSX Fundamentals LiveLessons is a unique video product that provides a solid understanding of NSX product components for security and network virtualization. This video course provides the perspective for network administrators, security practitioners, and virtualization administrators to feel confident in their ability to deploy NSX. VMware NSX Fundamentals LiveLessons contains 14 individual videos lessons, for a total of more than 14 hours of instruction. The videos consist of live teaching, screencasts, whiteboard instruction, animations, and more. Instruction throughout offers detailed explanations, tips, and configuration verifications. The video lessons cover the following topics: Lesson 1 Software-Defined Data Center Lesson 2 Networking Fundamentals Lesson 3 NSX Lab Lesson 4 NSX Manager and NSX Control Cluster Lesson 5 Logical Switch Networks Lesson 6 Distributed Logical Routing Lesson 7 Edge Routing and High Availability Lesson 8 Virtual Private Networks Lesson 9 NSX Edge Load Balancer Lesson 10 Distributed Firewalls Lesson 11 Automating the Security Architecture Lesson 12 Additional Edge Services Lesson 13 Multi-vCenter NSX Lesson 14 Operations About the Instructors Ron Fuller is a staff engineer in the Network and Security Business Unit (NSBU) focused on NSX for VMware. He has 21 years of experience in the industry and has held certifications from VMware, Novell, HP, Microsoft, ISC2, SNIA, and Cisco, including two CCIEs No. 5851 (Routing and Switching/Storage Networking). His focus is working with customers to address their challenges with comprehensive end-to-end data center architectures and how they can best utilize VMware technology to their advantage. He is the co-author of both editions of the Cisco Press title NX-OS and Cisco Nexus Switching, as well as the Cisco Press NX-OS Configuration Fundamentals LiveLesson and Cisco IP Multicast Fundamentals video series. He has had the opportunity to speak at Cisco Live in Europe, Australia, and the United States on multiple topics. He lives in Ohio with his wife and four wonderful children and enjoys travel and auto racing. He can be found on Twitter ccie5851. Anthony Burke is a senior systems engineer in the Network and Security Business at VMware. He works with customers to see benefits of the software-defined data center and validates use cases in a technical presales...

Building Virtual Machine Labs Tony V. Robinson,2017-06 Virtualization is a skill that most IT or security pros take for granted. The sheer number of choices and requirements can be a daunting challenge to face for beginners and veterans alike. With this book, you'll learn how to build a robust, customizable virtual environments suitable for both a personal home lab, as well as a dedicated office training environment. You will learn how to: - Understand the mechanics of virtualization and how they influence the design of your lab - Build an extensive baseline lab environment on any one of five commonly used hypervisors (VMware vSphere Hypervisor, VMware Fusion, VMware Workstation, Oracle Virtualbox, and Microsoft Client Hyper-V) - Harden your lab environment against VM escapes and other security threats - Configure the pfSense firewall distribution to provide security, segmentation, and network services to your virtual lab - Deploy either Snort or

Suricata open-source IDS platforms in IPS mode to further enhance the flexibility, segmentation and security of your lab network - Deploy Splunk as a log management solution for your lab - Reconfigure the provided baseline lab environment to better suit your individual needs Easy to follow steps and illustrations provide detailed, comprehensive guidance as you build your custom-tailored lab. Both IT and security professionals need practice environments to better hone their craft. Learn how to build and maintain your own with Building Flexible Virtual Machine Labs

VMware NSX Network Essentials Sreejith.C,2016-09-30 Learn how to virtualize your network and discover the full potential of a Software Defined Data Center. A smarter way to use network resources begins here About This Book Experience the dynamism and flexibility of a virtualized software defined data center with NSX Find out how to design your network infrastructure based on what your organization needs From security to automation, discover how NSX's impressive range of features can unlock a more effective and intelligent approach to system administration Who This Book Is For If you're a network administrator and want a simple but powerful solution to your network virtualization headaches, look no further than this fast-paced, practical guide. What You Will Learn Deep dive into NSX-v Manager, Controller deployment, and design decisions Get to know the strategies needed to make decisions on each mode of VXLAN that is based on physical network design Deploy Edge Gateway and leverage all the gateway features and design decisions Get to grips with NSX-v Security features and automate security Leverage Cross VC, identify the benefits, and work through a few deployment scenarios Troubleshoot an NSX-v to isolate problems and identify solutions through a step-by-step process In Detail VMware NSX is at the forefront of the software-defined networking revolution. It makes it even easier for organizations to unlock the full benefits of a software-defined data center - scalability, flexibility - while adding in vital security and automation features to keep any sysadmin happy. Software alone won't power your business - with NSX you can use it more effectively than ever before, optimizing your resources and reducing costs. Getting started should be easy - this guide makes sure it is. It takes you through the core components of NSX, demonstrating how to set it up, customize it within your current network architecture. You'll learn the principles of effective design, as well as some things you may need to take into consideration when you're creating your virtual networks. We'll also show you how to construct and maintain virtual networks, and how to deal with any tricky situations and failures. By the end, you'll be confident you can deliver, scale and secure an exemplary virtualized network with NSX. Style and approach This book provides you with an introduction to software-defined networking with VMware NSX. Focusing on the most essential elements, so you can put your knowledge into practice quickly, it's a guide dedicated to anyone who understands that sometimes real-world problems require virtualized solutions.

Mastering VMware NSX for vSphere Elver Sena Sosa,2020-04-06 A clear, comprehensive guide to VMware's latest virtualization solution Mastering VMware NSX for vSphere is the ultimate guide to VMware's network security virtualization platform. Written by a rock star in the VMware community, this book offers invaluable guidance and crucial reference for

every facet of NSX, with clear explanations that go far beyond the public documentation. Coverage includes NSX architecture, controllers, and edges; preparation and deployment; logical switches; VLANs and VXLANs; logical routers; virtualization; edge network services; firewall security; and much more to help you take full advantage of the platform's many features. More and more organizations are recognizing both the need for stronger network security and the powerful solution that is NSX; usage has doubled in the past year alone, and that trend is projected to grow—and these organizations need qualified professionals who know how to work effectively with the NSX platform. This book covers everything you need to know to exploit the platform's full functionality so you can: Step up security at the application level Automate security and networking services Streamline infrastructure for better continuity Improve compliance by isolating systems that handle sensitive data VMware's NSX provides advanced security tools at a lower cost than traditional networking. As server virtualization has already become a de facto standard in many circles, network virtualization will follow quickly—and NSX positions VMware in the lead the way vSphere won the servers. NSX allows you to boost security at a granular level, streamline compliance, and build a more robust defense against the sort of problems that make headlines. Mastering VMware NSX for vSphere helps you get up to speed quickly and put this powerful platform to work for your organization.

Learning VMware NSX - Second Edition Ranjit Singh Thakurratan, 2017-08-24 Explore the foundational components of VMware NSX About This Book* Install, manage, monitor and configure your NSX deployment.* Understand VMware NSX's components and discover best practices to help you manage VMware NSX* A step by step guide that will help you elevate your skills in deploying NSX to your environment Who This Book Is For The book is intended for network and system administrators that have hands on experience with VMware vSphere suite of products and would like to learn more about software defined networking and implementation of NSX. The readers are also expected to have basic networking knowledge and aware of basic switching and routing fundamentals. What You Will Learn* Understand software-defined networks* Deploy and configure VXLAN-enabled logical switches* Secure your environment using Distributed Firewall and Data Security* Configure third-party services in NSX* Manage, configure, and deploy edge gateway services* Perform various Edge operations including configuring CA certificates* Explore the different monitoring options to check their traffic flow In Detail VMware NSX is a platform for the software-defined data center. It allows complex networking topologies to be deployed programmatically in seconds. SDNs allow ease of deployment, management, and automation in deploying and maintaining new networks while reducing and in some cases completely eliminating the need to deploy traditional networks. The book allows you a thorough understanding of implementing Software defined networks using VMware's NSX. You will come across the best practices for installing and configuring NSX to setup your environment. Then you will get a brief overview of the NSX Core Components NSX's basic architecture. Once you are familiar with everything, you will get to know how to deploy various NSX features. Furthermore, you will understand how to manage and monitor NSX and its

associated services and features. In addition to this, you will also explore the best practices for NSX deployments. By the end of the book, you will be able to deploy VMware NSX in your own environment with ease. This book can come handy if you are preparing for VMware NSX certification. Style and approach This is an easy-to-follow guide with tested configuration steps to get you up and running quickly. This book covers the nitty-gritty of installing, configuring, managing, and monitoring VMware NSX.

VMware NSX Cookbook Tony Sangha, Bayu Wibowo, 2018-03-29 Network virtualization at your fingertips Key Features Over 70 practical recipes created by two VCIX-NV certified NSX experts Explore best practices to deploy, operate, and upgrade VMware NSX for vSphere Leverage NSX REST API using various tools from Python in VMware vRealize Orchestrator Book Description This book begins with a brief introduction to VMware's NSX for vSphere Network Virtualization solutions and how to deploy and configure NSX components and features such as Logical Switching, Logical Routing, layer 2 bridging and the Edge Services Gateway. Moving on to security, the book shows you how to enable micro-segmentation through NSX Distributed Firewall and Identity Firewall and how to do service insertion via network and guest introspection. After covering all the feature configurations for single-site deployment, the focus then shifts to multi-site setups using Cross-vCenter NSX. Next, the book covers management, backing up and restoring, upgrading, and monitoring using built-in NSX features such as Flow Monitoring, Traceflow, Application Rule Manager, and Endpoint Monitoring. Towards the end, you will explore how to leverage VMware NSX REST API using various tools from Python to VMware vRealize Orchestrator. What you will learn Understand, install, and configure VMware NSX for vSphere solutions Configure logical switching, routing, and Edge Services Gateway in VMware NSX for vSphere Learn how to plan and upgrade VMware NSX for vSphere Learn how to use built-in monitoring tools such as Flow Monitoring, Traceflow, Application Rule Manager, and Endpoint Monitoring Learn how to leverage the NSX REST API for management and automation using various tools from Python to VMware vRealize Orchestrator Who this book is for If you are a security and network administrator and looking to gain an intermediate level for network and security virtualization, then this book is for you. The reader should have a basic knowledge with VMware NSX.

Clear and Simple VMware NSX 6.2 and vSphere Virtual Networks Rick Crisci, 2018 This course is designed to help you understand all of the concepts behind NSX. We'll start at the very beginning, and learn basic networking. If you are a vSphere Administrator with a limited networking background, this will be a huge help. We'll then learn about the networking tools included with vSphere Enterprise Plus, including the Standard and Distributed virtual switches. Basic concepts such as port groups and VMkernel ports will be explained in a clear and simple manner. We'll also look deeper into the feature set, covering topics such as private VLANs, port mirroring, and network I/O control. NSX will be covered in a few different sections. First we'll learn the basics about NSX objects, and differentiate between management, control, and data planes.

From there we'll delve deeply into switching and routing functions within NSX. We'll also cover security, and how NSX can provide microsegmentation. We explain how Service Composer can be used to provide third-party integration. And we'll look at Cross-vCenter NSX, which was released with NSX 6.2. This course will also help you prepare for the VMware VCP6-NV exam. In order to take the VCP6-NV exam you will need to complete some course requirements from VMware as well. Be sure to check those out as you prepare to get certified. This course will also help you prepare for the VMware vSphere 6.5 Foundations exam. We can also provide Lab Rentals with manuals that you can use as a companion to this course.--Resource description page.

VMware NSX Automation Fundamentals Thiago Koga, Caio Oliveira, 2018-04-16

[NSX-T Logical Routing](#) Shashank Mohan, 2021-11-30 This book is a one-stop guide for IT professionals with a background in traditional and software-defined networks looking to expand or hone their skill set and has been developed through a combination of extensive research and testing in both development and production environments. It provides reliable information on a fundamental component of NSX-T, logical routing. A comprehensive understanding of this capability will help IT professionals with design, implementation, troubleshooting, and enhancements. The book starts with an introduction to the foundational components of the NSX-T platform and how NSX-T fits into the software-defined data center. The focus then moves to tunnel endpoints, which is a critical aspect of the NSX-T platform, and the differences between overlays and underlays are explained. Once the basics are covered, it provides a detailed description of how NSX-T components communicate. Next, the book introduces logical routing and its components and provides a better understanding of how these components function with one another. Several packet walks are illustrated to explain NSX-T logical routing behavior in different scenarios. After mastering logical routing, it explains how NSX-T ensures data plane availability, which is explored at various layers of NSX-T. Finally, the book explores the concepts and intricacies of routing into and out of the NSX-T environment. It deep dives into utilizing the Border Gateway Protocol (BGP), Open Shortest Path First (OSPF), and Static Routing. What You Will Learn Know how VMware NSX-T endpoints communicate Understand how NSX-T logical routing works Know how NSX-T provides high availability for the data plane Understand how NSX-T operates with static and dynamic routing protocols Configure the platform Who This Book Is For Readers with an intermediate to advanced skill set who wish to further their knowledge, those who focus on datacenter technology, those planning to move to a software-defined datacenter to transform the way their current datacenter works, and anyone looking to learn about VMware NSX-T and how it operates

VMware Certified Professional 6 Exam Guide (Exam #2V0-642) Rakesh Kumar Verma, 2022-06-20 Learn, Master & Ace VMware Network Virtualization Exam #2V0-642 with hands-on knowledge KEY FEATURES ● Get your grips on the basics of NSX-V network virtualization platform ● Explore NSX core components along with a detailed compare and contrast of its

benefits and implementation ● In-depth practical demonstration of network function virtualisation concepts with system image ● Integrate VMware NSX Integration with third party tools, products, services and systems using APIs ● Start with the basics and progress to advanced concepts in every chapter ● Deep dive into vDS capabilities including creation & deletion, adding/deleting ESXi hosts, configuring virtual ports and much more ● Hands-on demonstration on configuring and managing vSphere Networking, Network Security, NSX Network Services

DESCRIPTION Starting with the very basics of Networking virtualization, this book is a comprehensive guide to help you get certified as a VMware Professional. This book discusses the relationships between physical and virtual network infrastructure, networking devices, their working concepts and moves on to demonstrating the installation, configuration, administration, and operations performance in VMware NSX environment. The easy to follow explanations along with relevant visual aids like snapshots, tables and relevant figures will help you to practically follow the course of the book with ease. Initial chapters explore the various components of VMware NSX, its architecture and implementation in the network. Going forward its integration with third-party hardware, applications and services have been discussed extensively. Automation, Monitoring, and role assignments have been covered in concluding sections of the guide thus providing an end-to-end visibility on the topic. With all the information mentioned in this guide, grasped, and fully understood, you can target cracking the prestigious VMware certification VCP6-NV-2V0-642 successfully.

WHAT YOU WILL LEARN ● Understand Network Virtualization & NSX Core Components ● Explore VMware NSX Technology and Architecture & Physical Infrastructure requirements ● Configure & Manage vSphere Networking ● Install, configure, manage & Upgrade VMware NSX Virtual Network ● Understand how to Configure & Administer Network Security ● Deploy a Cross-vCentre NSX environment ● Perform Operations Tasks in a VMware NSX Environment

WHO THIS BOOK IS FOR This book is intended for IT infrastructure personnel engaged in networking, datacenter and cloud administration. With the knowledge gained through this guide, you can get certified as a VMware Professional (VCP6-NV-2V0-642) and progress further in your networking career. Prior understanding of the relationship between physical and virtual network infrastructures alongwith networking devices & their working concepts is necessary.

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