

Journey To The Sddc

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Mastering VMware vSphere 6.7 - Martin Gavanda 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 6.7s 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.

Translog - 2002

Journey of the Tall Horse - Mervyn Millar 2006-04
"In 1826 a giraffe was captured in the African savannah and transported from Egypt to France to be presented to King Charles X as a prize addition to his menagerie. In 2004 a unique collection of performers from around the world joined together to tell its story with the help of a grand variety of puppet designers, actors, dancers, stilt-walkers, music, costumes, graphics - and a life-size puppet giraffe." "Journey of the Tall Horse tells how this ambitious collaboration came about, and how the contributors worked together, incorporating a huge range of styles and techniques and overcoming barriers of culture and language, to perform the show to great success. Filled with photographs, original design sketches and comments from all those involved, Mervyn Millar's eye-witness account takes the reader to the heart of the theatre-making process, capturing all the enthusiasm and exhaustion, frustrations and rewards of being involved in a groundbreaking stage production. The book also includes the performance script of Tall Horse by Khephra Burns."--BOOK JACKET.

VMware Software-Defined Storage - Martin Hosken 2016-08-29

The inside guide to the next generation of data storage

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

My American Journey - Joe Walker 2021-09-07

Born in a two-room house in rural Louisiana during the Jim Crow Era, Joe Walker shares the story of his life. As a child, he helped his father build houses; as an adolescent, he worked odd jobs to earn money. At an early age, Joe fell in love with radio, nurturing dreams of becoming a DJ. As one of 12 Black students to integrate an all-White school, he was humiliated, ridiculed, and belittled daily. Joe turned to music, and he excelled in band and played multiple instruments. Joe joined the Navy. Upon completing his active-duty military service, Joe embarked on a career in technology and retired from IBM.

The Origins of the Boxer Uprising - Joseph W. Esherick 1988-08-18

In the summer of 1900, bands of peasant youths from the villages of north China streamed into Beijing to besiege the foreign legations, attracting the attention of the entire world. Joseph Esherick reconstructs the early

history of the Boxers, challenging the traditional view that they grew from earlier anti-dynastic sects, and stressing instead the impact of social ecology and popular culture.

VMware Performance and Capacity Management - Iwan 'el' Rahabok 2016-03-31

Master SDDC Operations with proven best practices About This Book Understand the drawbacks of the traditional paradigm and management that make operations difficult in SDDC Master performance and capacity management in Software-Defined Data Center Operationalize performance and capacity monitoring with proven dashboards Who This Book Is For This book is primarily for any system administrator or cloud infrastructure specialist who is interested in performance management and capacity management using VMware technologies. This book will also help IT professionals whose area of responsibility is not VMware, but who work with the VMware team. You can be Windows, Linux, Storage, or Network team; or application architects. Note that prior exposure to the VMware platform of data-center and cloud-based solutions is expected. What You Will Learn Simplify the task of performance and capacity management Master the counters in vCenter and vRealize Operations and understand their dependency on one another Educate your peers and management on SDDC Operations Complete your SDDC monitoring to include non-VMware components Perform SDDC performance troubleshooting Explore real-life examples of how super metric and advanced dashboards Introduce and implement a Performance SLA Accomplish your Capacity Management by taking into service tiering and performance SLA In Detail Performance management and capacity management are the two top-most issues faced by enterprise IT when doing virtualization. Until the first edition of the book, there was no in-depth coverage on the topic to tackle the issues systematically. The second edition expands the first edition, with added information and reorganizing the book into three logical parts. The first part provides the technical foundation of SDDC Management. It explains the difference between a software-defined data center and a classic physical data center, and how it impacts both architecture and operations. From this strategic view, it zooms into the most common challenges—performance management and capacity management. It introduces a new concept called Performance SLA and also a new way of doing capacity management. The next part provides the actual solution that you can implement in your environment. It puts the theories together and provides real-life examples created together with customers. It provides the reasons behind each dashboard, so that you get the understanding on why it is required and what problem it solves. The last part acts as a reference section. It provides a complete reference to vSphere and vRealize Operations counters, explaining their dependencies and providing practical guidance on the values you should expect in a healthy environment. Style and approach This book covers the complex topic of managing performance and capacity in an easy-to-follow style. It relates real-world scenarios to topics in order to help you implement the book's teachings on the go.

Software-Defined Cloud Centers - Pethuru Raj 2018-05-04

This practical text/reference provides an exhaustive guide to setting up and sustaining software-defined data centers (SDDCs). Each of the core elements and underlying technologies are explained in detail, often supported by real-world examples. The text illustrates how cloud integration, brokerage, and orchestration can ensure optimal performance and usage of data resources, and what steps are required to secure each component in a SDDC. The coverage also includes material on hybrid cloud concepts, cloud-based data analytics, cloud configuration, enterprise DevOps and code deployment tools, and cloud software engineering. Topics and features: highlights how technologies relating to cloud

computing, IoT, blockchain, and AI are revolutionizing business transactions, operations, and analytics; introduces the concept of Cloud 2.0, in which software-defined computing, storage, and networking are applied to produce next-generation cloud centers; examines software-defined storage for storage virtualization, covering issues of cloud storage, storage tiering, and deduplication; discusses software-defined networking for network virtualization, focusing on techniques for network optimization in data centers; reviews the qualities and benefits of hybrid clouds, that bridge private and public cloud environments; investigates the security management of a software-defined data center, and proposes a framework for managing hybrid IT infrastructure components; describes the management of multi-cloud environments through automated tools, and cloud brokers that aim to simplify cloud access, use and composition; covers cloud orchestration for automating application integration, testing, infrastructure provisioning, software deployment, configuration, and delivery. This comprehensive work is an essential reference for all practitioners involved with software-defined data center technologies, hybrid clouds, cloud service management, cloud-based analytics, and cloud-based software engineering.

Global Reach - Ken Gaulden 2016-01-15

Since the 1980s, strategic sealift has been formally designated as a U.S. Navy mission. With over ninety percent of all military equipment and supplies required to support U.S. military forces in combat being delivered by sea, and as globalized interests and risks continue to spread, this mission is vital to the country's economic and national security. Despite its necessity, sealift is rarely discussed as anything other than an operations adjunct and must be carried out in an environment of unprecedented fiscal constraints. *Global Reach* provides a unique examination into the development and implementation of more than a century of U.S. national defense sealift policy. Presenting a comprehensive history on the evolution of sealift from the Spanish American War (1898) to Operation Enduring Freedom/Iraqi Freedom (2002–12), Herberger, Gaulden, and Marshall reflect on what has and has not worked in that time from both a legal and operational perspective. As international demands grow and change, so too must the sealift policies that are directly tied to how the nation will address them. With its thorough history and cogent analysis, *Global Reach* provides the context necessary to understand this complex, important topic, but also lays out a roadmap for how the U.S. can continue to meet and respond to the increasing challenges of the years to come.

VCA-DCV Official Cert Guide - Matthew Vandenberg 2014

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 Reinforce your learning with web-based practice exams An excellent "fundamentals" book on vSphere The Official VCA-DCV Certification 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 Official VCA-DCV Certification Guide focuses specifically on the objectives for the VCA-DCV, the VMware Certified Associate on Data Center Virtualization exam (VCAD510). Experts Matt Vandenberg and Jonathan

MacDonald 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 VCA-DCV exam, including the following: Datacenter virtualization: What is it and what are the components? Business challenges solved by virtualization Core components of vSphere: the virtual machine, ESXI, high availability vSphere storage, including physical versus virtual, storage types, thin provisioning, and more vSphere networking fundamentals, physical versus virtual switches, components, policies, I/O Mapping business challenges to vSphere solutions The Official VCA-DCV Certification 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 ...

My Fathers' Daughter - Hannah Pool 2009-01-06

What do you wear to meet your father for the first time? In 2004, Hannah Pool knew more about next season's lipstick colors than she did about Africa: a beauty editor for The Guardian newspaper, she juggled lattes and cocktails, handbags and hangouts through her twenties just like any other beautiful, independent Londoner. Her white, English adoptive relatives were beloved to her and were all the family she needed. Okay, if I treat it as a first date, then I'm on home turf. What image do I want to put across?...Classic, rather than trendy, and if my G-string doesn't pop out, I should be able to carry the whole thing off. Contacted by relatives she didn't know she had, she decided to visit Eritrea, the war-torn African country of her birth, and answer for herself the daunting questions every adopted child asks. Imagine what it's like to never have seen another woman or man from your own family. To spend your life looking for clues in the faces of strangers...We all need to know why we were given up. What Hannah Pool learned on her journey forms a narrative of insight, wisdom, wit, and warmth beyond all expectations. When I stepped off the plane in Asmara, I had no idea what lay ahead, or how those events would change me, and if I'd thought about it too hard I probably wouldn't have gotten farther than the baggage claim. A story that will "send shivers down [your] spine," (The Bookseller), *My Fathers' Daughter* follows Hannah Pool's brave and heartbreaking return to Africa to meet the family she lost -- and the father she thought was dead.

Mastering VMware vSphere 6.5 - Andrea Mauro 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.

Operationalizing VMware NSX - Kevin Lees 2017-08-25

Virtualizing SQL Server with VMware - Michael Corey 2014-07-23

The start-to-finish guide to virtualizing business-critical SQL Server databases on VMware vSphere 5 By virtualizing business-critical databases, enterprises can drive far more value from existing IT infrastructure. But squeezing maximum performance out of a virtualized database instance is an art as much as a science. This indispensable start-to-finish guide brings together all the techniques, tips, and insights you need to succeed. Drawing on unsurpassed personal experience, three leading experts share complete best practices for deploying business-critical database servers in virtualized vSphere 5 environments. They cover the entire project lifecycle, bridging technical and communications gaps between SQL Server and VMware professionals that often make database virtualization more difficult than it needs to be. You'll find specific guidance for architects and administrators responsible for systems, storage, databases, applications, or VMware virtualization. The authors also present detailed, start-to-finish coverage of performance baselining and testing: all you need to make your virtualized databases as fast as they are cost effective. Although this book focuses on SQL, the authors' proven guidance for enhancing performance can be leveraged by any IT professional virtualizing a demanding Tier 1 application. Coverage includes • Business cases for database virtualization: consolidation, Database as a Service (DaaS), efficiency, and "SLAs on steroids" • Using the redundancy inherent in virtualization to improve availability • Constructing a careful, conservative implementation plan • Balancing disk, CPU, memory, and network for superior performance • Mastering the five key principles of database storage design • Leveraging memory: SQL MAX, page locking, NUMA, reservations, swapping, large memory pages, and more • Ensuring responsiveness by providing a fast, reliable, low-latency network • Supporting advanced AlwaysOn Failover Cluster Instances and Availability Groups • Baselining physical systems and properly determining

resource requirements • Configuring performance tests from beginning to end • Migrating existing SQL Server databases onto a vSphere platform • Avoiding traps and pitfalls in virtualizing production databases • Managing and monitoring virtualized database instances and resources

The Management of Security Cooperation - 2017

Intelligent Automation with VMware - Ajit Pratap Kundan
2019-03-30

Use self-driven data centers to reduce management complexity by deploying Infrastructure as Code to gain value from investments. Key Features Add smart capabilities in VMware Workspace ONE to deliver customer insights and improve overall security Optimize your HPC and big data infrastructure with the help of machine learning Automate your VMware data center operations with machine learning Book Description This book presents an introductory perspective on how machine learning plays an important role in a VMware environment. It offers a basic understanding of how to leverage machine learning primitives, along with a deeper look into integration with the VMware tools used for automation today. This book begins by highlighting how VMware addresses business issues related to its workforce, customers, and partners with emerging technologies such as machine learning to create new, intelligence-driven, end user experiences. You will learn how to apply machine learning techniques incorporated in VMware solutions for data center operations. You will go through management toolsets with a focus on machine learning techniques. At the end of the book, you will learn how the new vSphere Scale-Out edition can be used to ensure that HPC, big data performance, and other requirements can be met (either through development or by fine-tuning guidelines) with mainstream products. What you will learn Orchestrate on-demand deployments based on defined policies Automate away common problems and make life easier by reducing errors Deliver services to end users rather than to virtual machines Reduce rework in a multi-layered scalable manner in any cloud Explore the centralized life cycle management of hybrid clouds Use common code so you can run it across any cloud Who this book is for This book is intended for those planning, designing, and implementing the virtualization/cloud components of the Software-Defined Data Center foundational infrastructure. It helps users to put intelligence in their automation tasks to get self driving data center. It is assumed that the reader has knowledge of, and some familiarity with, virtualization concepts and related topics, including storage, security, and networking.

Software Defined Data Center with Red Hat Cloud and Open Source IT Operations Management - Dino Quintero
2020-11-04

This IBM® Redbooks® publication delivers a Site Reliability Engineering (SRE) solution for cloud workloads that uses Red Hat OpenStack for Infrastructure as a Service (IaaS), Red Hat OpenShift for Platform as a Service (PaaS), and IT operations management that uses open source tools. Today, customers are no longer living in a world of licensed software. Curiosity increased the demand for investigating the Open Source world for Community Open Source and Enterprise grade applications. IBM as one of the contributors to the Open Source community is interested in helping the software be maintained and supported. Having companies, such as IBM, support the evolution of Open Source software helps to keep the Open Source community striving for enterprise grade open source solutions. Lately, companies are working on deciphering how to take advantage of Enterprise and Community Open Source to implement in their enterprises. The business case for open source software is no longer a mystery and no surprise that most of the new positions in IT enterprises are related

to open source projects. The ability of a large enterprise to manage this sort of implementations is to engage in a hypertrophied cooperation, where the ability to not only cooperate with teams and people outside your organization, but also to find new ways of working together and devise new ways to improve the software and its code. A goal for this publication is to help the client's journey into the open source space and implement a private Cloud Container-based architecture with the ability to manage the entire IT Service Management processes from the open source framework. This publication describes the architecture and implementation details of the solution. Although not every piece of this solution is documented here, this book does provide instructions for what was achieved incorporating open source technologies. Moreover, with this publication, the team shares their collaboration experiences working in a team of technologists, open source developers, Red Hat, and the open source community. This publication is for designers, developers, managers, and anyone who is considering starting a Cloud open source project, or users who started that journey. This book also can be a manual to guide the implementation of a technical viable architecture and help those enterprises participate in an open source project but have not done so before. The reader must be familiar with principles in programming and basic software engineering concepts, such as source code, compilers, and patches.

Learning VMware vRealize Automation - Sriram Rajendran
2016-02-03

Learn the fundamentals of vRealize Automation to accelerate the delivery of your IT services About This Book Learn to install the vRealize Automation product in a distributed architecture using a load balancer Plan backup and recovery strategies for every vRealize automation component Use vRealize Automation to manage applications and improve operational efficiency using this simple and intuitive guide Who This Book Is For This book is for anyone who wants to start their journey with vRealize Automation. It is your one-stop instruction guide to installing and configuring a distributed setup using NSX load balancer. Regardless of whether or not you have used vRealize Automation before, following the steps provided in each chapter will get you started with the product. What You Will Learn Understand the basic building blocks of vRealize Automation before embarking on the journey of installation Familiarize yourself with the requirements and steps that need to be performed during the first phase of the distributed installation Carry out a functional validation of the first phase of installation before completing the installation Build a blueprint for vSphere endpoint, an essential step for a successful deployment of a service catalog Create, configure, and deploy tenants, endpoints, blueprints, and the service catalog Get to grips with the failover process for all components in vRealize Automation Learn to configure the NSX loadbalancer for vRealize Orchestrator for high availability Leverage ASD to develop XaaS (Anything as a Service) in vRealize Automation to deliver valuable competence In Detail With the growing interest in Software Defined Data Centers (SDDC), vRealize Automation offers data center users an organized service catalog and governance for administrators. This way, end users gain autonomy while the IT department stays in control, making sure security and compliance requirements are met. Learning what each component does and how they dovetail with each other will bolster your understanding of vRealize Automation. The book starts off with an introduction to the distributed architecture that has been tested and installed in large scale deployments. Implementing and configuring distributed architecture with custom certificates is unarguably a demanding task, and it will be covered next. After this,

we will progress with the installation. A vRealize Automation blueprint can be prepared in multiple ways; we will focus solely on vSphere endpoint blueprint. After this, we will discuss the high availability configuration via NSX loadbalancer for vRealize Orchestrator. Finally, we end with Advanced Service Designer, which provides service architects with the ability to create advanced services and publish them as catalog items. Style and approach This book takes a step-by-step approach, is explained in a conversational and easy-to-follow style, and includes ample screenshots. Each topic is explained sequentially through planning, preparing, installing, configuring, and validating of all vRealize Automation's components.

Docker Deep Dive - Nigel Poulton 2020

Giving you the confidence you need to take on Docker in the real world, this guide is the ultimate book for learning Docker, brought to you by Docker Captain and leading educator in the container ecosystem. --

Using the IBM Security Framework and IBM Security Blueprint to Realize Business-Driven Security - Axel Buecker 2014-02-06

Security is a major consideration in the way that business and information technology systems are designed, built, operated, and managed. The need to be able to integrate security into those systems and the discussions with business functions and operations exists more than ever. This IBM® Redbooks® publication explores concerns that characterize security requirements of, and threats to, business and information technology (IT) systems. This book identifies many business drivers that illustrate these concerns, including managing risk and cost, and compliance to business policies and external regulations. This book shows how these drivers can be translated into capabilities and security needs that can be represented in frameworks, such as the IBM Security Blueprint, to better enable enterprise security. To help organizations with their security challenges, IBM created a bridge to address the communication gap between the business and technical perspectives of security to enable simplification of thought and process. The IBM Security Framework can help you translate the business view, and the IBM Security Blueprint describes the technology landscape view. Together, they can help bring together the experiences that we gained from working with many clients to build a comprehensive view of security capabilities and needs. This book is intended to be a valuable resource for business leaders, security officers, and consultants who want to understand and implement enterprise security by considering a set of core security capabilities and services.

A Shipper's Guide to Stowage of Cargo in Marine Containers - 1982

Azure Stack Hub Demystified - Richard Young 2021-10-07
Deploy, configure, administer, and run Microsoft Azure Stack Hub Key Features
Understand the topics required for the Microsoft Azure AZ-600 exam
Configure and provide services from Microsoft Azure Stack Hub
Implement data center integration with Microsoft Azure Stack Hub
Book Description
Azure Stack Hub is the on-premise offering from Microsoft, which provides Azure Cloud services within a customer's own data center. It provides consistent processes between on-site and the cloud, allowing developers to test locally and deploy to the cloud in exactly the same manner. Azure Stack Hub Demystified provides complete coverage of deploying, configuring, administering, and running Microsoft Azure Stack Hub efficiently. Firstly, you will learn how to deploy Azure Stack Hub within an organization. As you progress, you'll understand configuration and the different services provided by the platform. The book also focuses on the underlying architecture and

connectivity options for the modern data center. Later, you will understand various approaches to DevOps and their implementation, and learn key topics for the AZ-600 exam. By the end of this Azure book, you will have a thorough understanding of Azure Stack Hub and the services that are provided by the platform, along with the confidence and information you need to be able to pass the AZ-600 exam. What you will learn
Understand the architecture of Azure Stack Hub
Get up to speed with the management and administration of Azure Stack Hub
Explore how to administer virtual networking within your Azure Stack
Become well versed in using the Azure Stack Hub support model and updating Azure Stack Hub
Understand how licensing and billing is done with Azure Stack Hub
Discover the tools that can be used to implement security within Azure Stack Hub
Focus on how DevOps practices can be incorporated with Azure Stack Hub
Who this book is for
If you are an Azure Administrator and Azure Stack Hub Operator who provides or is looking to provide cloud services to end users or customers within their own data center, then this book is for you. This book will also be beneficial to those who are preparing for Exam AZ-600: Configuring and Operating a Hybrid Cloud with Microsoft Azure Stack Hub.

Movement of Units in Air Force Aircraft - United States. Department of the Army 1978

Etowah River User's Guide - Joe Cook 2013-05-01

From its headwaters on the southern slope of the Tennessee Valley divide near Dählonega to its confluence with the Oostanaula to form the Coosa in Rome, the Etowah is a river full of interesting surprises. Paddle over Native American fish weirs and past the Etowah Indian Mounds, one of the most intact Mississippian Culture sites in the Southeast. See the quarter-mile tunnel created to divert the Etowah during Georgia's gold rush and the pilings from antebellum bridges burned in the Civil War. This guide offers all the information needed for even novice paddlers to feel comfortable jumping in a boat and heading downstream, including detailed, accurate maps; put in/take out and optimal river flow information; mile-by-mile points of interest; and an illustrated natural history guide to help identify animals and plants commonly seen in and around the river. A fishing primer offers tips to understand the habits of some of the many native fish species found in the Etowah, from trout in the river's upper reaches to bass and bream in the midsection and catfish and drum below Lake Allatoona. Along the way, river explorers will come to understand the threats facing this unique Georgia place, and the guide offers suggestions for how to take action to help protect the Etowah and keep its beauty and biodiversity safe for future explorers. A Wormsloe Foundation nature book.

VMware Software-Defined Storage - Martin Hosken 2016-08-11

The inside guide to the next generation of data storage technology
VMware Software-Defined Storage, A Guide to the Policy Driven, Software-Defined Storage Era presents the most in-depth look at VMware's next-generation storage technology to help solutions architects and operational teams maximize quality storage design. Written by a double VMware Certified Design Expert, this book delves into the design factors and capabilities of Virtual SAN and Virtual Volumes to provide a uniquely detailed examination of the software-defined storage model. Storage-as-a-Service (STaaS) is discussed in terms of deployment through VMware technology, with insight into the provisioning of storage resources and operational management, while legacy storage and storage protocol concepts provide context and demonstrate how Virtual SAN and Virtual Volumes are meeting traditional challenges. The discussion on architecture emphasizes the economies of storage alongside specific design factors for next-generation VMware based storage

solutions, and is followed by an example in which a solution is created based on the preferred option identified from a selection of cross-site design options. Storage hardware lifecycle management is an ongoing challenge for IT organizations and service providers. VMware is addressing these challenges through the software-defined storage model and Virtual SAN and Virtual Volumes technologies; this book provides unprecedented detail and expert guidance on the future of storage. Understand the architectural design factors of VMware-based storage Learn best practices for Virtual SAN stretched architecture implementation Deploy STaaS through vRealize Automation and vRealize Orchestrator Meet traditional storage challenges with next-generation storage technology Virtual SAN and Virtual Volumes are leading the way in efficiency, automation, and simplification, while maintaining enterprise-class features and performance. As organizations around the world are looking to cut costs without sacrificing performance, availability, or scalability, VMware-based next-generation storage solutions are the ideal platform for tomorrow's virtual infrastructure. VMware Software-Defined Storage provides detailed, practical guidance on the model that is set to transform all aspects of vSphere data center storage.

China Cloud Rising - Jinzy Zhu 2014-05-28

In twenty years, China's expenditures for research and development will surpass those of the United States, a trend that epitomizes nationalistic ambitions to regain intellectual prestige for a country that had once invented paper and gunpowder. Tens of billions of dollars have been poured into a new technology superstructure as China seeks to transform its economy from a crippling reliance on manufacturing outsourcing. Cloud computing represents a dynamic foundation for the new superstructure that can foster the growth of a socio-capitalistic ecosystem, creating a new class of green exports in the form of highly sophisticated software and services. With Cloud computing, China is seeking to establish a new Silk Road, where its cultural products will once again change the world.

Building VMware Software-Defined Data Centers - Valentin Hamburger 2016-12-12

Make the most of software-defined data centers with revolutionary VMware technologies About This Book Learn how you can automate your data center operations and deploy and manage applications and services across your public, private, and hybrid infrastructure in minutes Drive great business results with cost-effective solutions without compromising on ease, security, and controls Transform your business processes and operations in a way that delivers any application, anywhere, with complete peace of mind Who This Book Is For If you are an IT professional or VMware administrator who virtualizes data centers and IT infrastructures, this book is for you. Developers and DevOps engineers who deploy applications and services would also find this book useful. Data center architects and those at the CXO level who make decisions will appreciate the value in the content. What You Will Learn Understand and optimize end-to-end processes in your data center Translate IT processes and business needs into a technical design Apply and create vRO workflow automation functionalities to services Deploy NSX in a virtual environment Technically accomplish DevOps offerings Set up and use vROPs to master the SDDC resource demands Troubleshoot all the components of SDDC In Detail VMware offers the industry-leading software-defined data center (SDDC) architecture that combines compute, storage, networking, and management offerings into a single unified platform. This book uses the most up-to-date, cutting-edge VMware products to help you deliver a complete unified hybrid cloud experience within your infrastructure. It will help you build a unified hybrid cloud based on SDDC architecture and

practices to deliver a fully virtualized infrastructure with cost-effective IT outcomes. In the process, you will use some of the most advanced VMware products such as vSphere, VCloud, and NSX. You will learn how to use vSphere virtualization in a software-defined approach, which will help you to achieve a fully-virtualized infrastructure and to extend this infrastructure for compute, network, and storage-related data center services. You will also learn how to use EVO:RAIL. Next, you will see how to provision applications and IT services on private clouds or IaaS with seamless accessibility and mobility across the hybrid environment. This book will ensure you develop an SDDC approach for your datacenter that fulfills your organization's needs and tremendously boosts your agility and flexibility. It will also teach you how to draft, design, and deploy toolsets and software to automate your datacenter and speed up IT delivery to meet your lines of businesses demands. At the end, you will build unified hybrid clouds that dramatically boost your IT outcomes. Style and approach With the ever-changing nature of businesses and enterprises, having the capability to navigate through the complexities is of utmost importance. This book takes an approach that combines industry expertise with revolutionary VMware products to deliver a complete SDDC experience through practical examples and techniques, with proven cost-effective benefits.

Public Roads - 2011

Software-Defined Data Infrastructure Essentials - Greg Schulz 2017-06-14

Software-Defined Data Infrastructures Essentials provides fundamental coverage of physical, cloud, converged, and virtual server storage I/O networking technologies, trends, tools, techniques, and tradecraft skills. From webscale, software-defined, containers, database, key-value store, cloud, and enterprise to small or medium-size business, the book is filled with techniques, and tips to help develop or refine your server storage I/O hardware, software, and services skills. Whether you are new to data infrastructures or a seasoned pro, you will find this comprehensive reference indispensable for gaining as well as expanding experience with technologies, tools, techniques, and trends. We had a front row seat watching Greg present live in our education workshop seminar sessions for ITC professionals in the Netherlands material that is in this book. We recommend this amazing book to expand your converged and data infrastructure knowledge from beginners to industry veterans. –Gert and Frank Brouwer, Brouwer Storage Consultancy Software-Defined Data Infrastructures Essentials provides the foundational building blocks to improve your craft in several areas including applications, clouds, legacy, and more. IT professionals, as well as sales professionals and support personnel, stand to gain a great deal by reading this book.–Mark McSherry, Oracle Regional Sales Manager Looking to expand your data infrastructure IQ? From CIOS to operations, sales to engineering, this book is a comprehensive reference, a must read for IT infrastructure professionals, beginners to seasoned experts.–Tom Becchetti, Advisory Systems Engineer Greg Schulz has provided a complete 'toolkit' for storage management along with the background and framework for the storage or data infrastructure professional or those aspiring to become one.–Greg Brunton, Experienced Storage and Data Management Professional

Data Infrastructure Management - Greg Schulz 2019-01-30

This book looks at various application and data demand drivers, along with data infrastructure options from legacy on premise, public cloud, hybrid, software-defined data center (SDDC), software data infrastructure (SDI), container as well as serverless along with infrastructure as a Service (IaaS), IT as a Service

(ITaaS) along with related technology, trends, tools, techniques and strategies. Filled with example scenarios, tips and strategy considerations, the book covers frequently asked questions and answers to aid strategy as well as decision-making.

Requirements Engineering for Service and Cloud Computing - Muthu Ramachandran 2017-04-10

This authoritative text/reference describes the state of the art in requirements engineering for software systems for distributed computing. A particular focus is placed on integrated solutions, which take into account the requirements of scalability, flexibility, sustainability and operability for distributed environments. Topics and features: discusses the latest developments, tools, technologies and trends in software requirements engineering; reviews the relevant theoretical frameworks, practical approaches and methodologies for service requirements; examines the three key components of the requirements engineering process, namely requirements elicitation, requirements specification, and requirements validation and evaluation; presents detailed contributions from an international selection of highly reputed experts in the field; offers guidance on best practices, and suggests directions for further research in the area.

Vmware Performance and Capacity Management, Second Edition - Iwan 'El' Rahabok 2016-03-30

Master SDDC Operations with proven best practices About This Book- Understand the drawbacks of the traditional paradigm and management that make operations difficult in SDDC- Master performance and capacity management in Software-Defined Data Center- Operationalize performance and capacity monitoring with proven dashboards Who This Book Is For This book is primarily for any system administrator or cloud infrastructure specialist who is interested in performance management and capacity management using VMware technologies. This book will also help IT professionals whose area of responsibility is not VMware, but who work with the VMware team. You can be Windows, Linux, Storage, or Network team; or application architects. Note that prior exposure to the VMware platform of data-center and cloud-based solutions is expected. What You Will Learn- Simplify the task of performance and capacity management- Master the counters in vCenter and vRealize Operations and understand their dependency on one another- Educate your peers and management on SDDC Operations- Complete your SDDC monitoring to include non-VMware components- Perform SDDC performance troubleshooting- Explore real-life examples of how super metric and advanced dashboards- Introduce and implement a Performance SLA- Accomplish your Capacity Management by taking into service tiering and performance SLA In Detail Performance management and capacity management are the two top-most issues faced by enterprise IT when doing virtualization. Until the first edition of the book, there was no in-depth coverage on the topic to tackle the issues systematically. The second edition expands the first edition, with added information and reorganizing the book into three logical parts. The first part provides the technical foundation of SDDC Management. It explains the difference between a software-defined data center and a classic physical data center, and how it impacts both architecture and operations. From this strategic view, it zooms into the most common challenges-performance management and capacity management. It introduces a new concept called Performance SLA and also a new way of doing capacity management. The next part provides the actual solution that you can implement in your environment. It puts the theories together and provides real-life examples created together with customers. It provides the reasons behind each dashboard, so that you get the understanding on why it is required and what problem it solves. The last part acts as a reference section. It provides a complete reference to vSphere and vRealize Operations

counters, explaining their dependencies and providing practical guidance on the values you should expect in a healthy environment. Style and approach This book covers the complex topic of managing performance and capacity in an easy-to-follow style. It relates real-world scenarios to topics in order to help you implement the book's teachings on the go.

Vsphere High Performance Cookbook - Prasenjit Sarkar 2013-01-01

vSphere High Performance Cookbook is written in a practical, helpful style with numerous recipes focusing on answering and providing solutions to common, and not-so common, performance issues and problems. The book is primarily written for technical professionals with system administration skills and some VMware experience who wish to learn about advanced optimization and the configuration features and functions for vSphere 5.1.

Virtualize Oracle Business Critical Databases - Charles Kim 2014-06-08

Virtualize Oracle Business Critical Databases, October 2018 Update: This book is a single source of information for an Oracle DBA to understand the benefits of virtualization and how to effectively deploy Oracle Databases on VMware's SDDC platform. This book is targeted for DBAs looking at implementing Oracle on a virtualized infrastructure. Key topics include deployment, scaling, troubleshooting and performance tuning. The authors, Charles Kim, George Trujillo, Steven Jones and Sudhir Balasubramanian, have spent a number of years focusing on virtualizing Tier-One high performance Oracle platforms. The authors include VMware VCPs, VMware vExperts as well as an Oracle ACE, Oracle ACE Director and hold certifications in the Oracle stack. Imagine a world where your system administrator(s) provisions a fully functional Linux server that is patched with all the up-to-date kernel parameters, updated device drivers, and updated configurations in 1 hour. The time that you make the request to the time that you get access to a server that has a fully configured Red Hat 6/7 or Oracle Linux 6/7 environment is within a couple of hours. On top of all this, the build is consistent and reliable every time. This should be a realistic goal for most companies today, and this book can guide you along your journey.

VMware Cross-Cloud Architecture - Ajit Pratap Kundan 2018-03-30

Enhance your virtualization skills by mastering storage and network virtualization with automation across different Clouds Key Features Migrate and build your applications in Hybrid Cloud with VMware Cross Cloud components and services Gain in-depth configuration insights of VMware Cross Cloud architecture Learn to migrate applications from VMware to AWS and IBM Cloud Book Description Over the past two decades, VMware vSphere has been known as the most trusted and reliable virtualization platform. VMware Cross-Cloud Architecture shows you how to design and configure Cross Cloud Architecture by using VMware Cloud Foundation and vRealize Suite with various use cases across private, public, and hybrid Cloud. This book takes you through everything from a basic understanding of virtualization to advanced aspects of storage and network virtualization, clustering, automation, and management. This book will be your guide to designing all aspects of Cloud. We start with the challenges faced by a traditional data center, define problem statements for you, and then brief you on respective solutions. Moving on, all kinds of virtualization and Cloud offerings from AWS and IBM Soft Layer are introduced and discussed in detail. Then, you'll learn how to design IT infrastructures for new and existing applications with a combination of Cloud Foundation, vRealize Suite, and vSphere enabled with VSAN and NSX. Furthermore, you'll learn how to design and configure high availability, disaster recovery, and apply an appropriate compliance

matrix. Toward the end of the book, you will learn how to calculate the TCO/ROI, along with the VMware products packaging and licensing in detail. What you will learn
Install and configure the Cloud foundation with Cross-Cloud services
Configure vSphere high availability with the vCenter redundancy setup
Architect and configure VMware with AWS Cloud Deploy VMware components in IBM Soft Layer
Extend your DR setup with VMware to consume DRaaS
Design and configure software-defined networking
Implement compliance regulations to fix violations
Who this book is for
This book is for administrators, Cloud architects and network engineers who want to globalize their infrastructure using VMware and AWS services. An initial setup of workloads and data center is beneficial.

AR 385-10 11/27/2013 THE ARMY SAFETY PROGRAM , Survival Ebooks - Us Department Of Defense

AR 385-10 11/27/2013 THE ARMY SAFETY PROGRAM , Survival Ebooks

VMware NSX Automation Fundamentals - Thiago Koga
2018-04-16

Cloud Computing with Security and Scalability. - Naresh Kumar Sehgal 2022-09-03

This book provides readers with an overview of Cloud Computing, starting with historical background on mainframe computers and early networking protocols, leading to current concerns such as hardware and systems security, performance, emerging areas of IoT, Edge Computing, and healthcare etc. Readers will benefit from the in-depth discussion of cloud computing usage and the underlying architectures. The authors explain carefully the “why’s and how’s” of Cloud Computing, so engineers will find this book an invaluable source of information to the topic. This third edition includes new material on Cloud Computing Scalability, as well as best practices for using dynamic cloud infrastructure, and cloud operations management with cost optimizations.

Several new examples and analysis of cloud security have been added, including ARM architecture and https protocol. Provides practical guidance for software developers engaged in migrating in-house applications to Public Cloud; Describes for IT managers how to improve their Cloud Computing infrastructures; Includes coverage of security concerns with Cloud operating models; Uses several case studies to illustrate the “why’s and how’s” of using the Cloud; Examples and options to improve Cloud Computing Scalability.

VMware vRealize Operations Performance and Capacity Management - Iwan 'e1' Rahabok 2014-12-26

If you are an IT professional who is interested in performance management and capacity management in a virtual data center, then this book is ideal for you. The book is an intermediate-level book.

Design Tools and Methods in Industrial Engineering - Caterina Rizzi 2019-09-19

This book reports on cutting-edge design methods and tools in industrial engineering, advanced findings in mechanics and material science, and relevant technological applications. Topics span from geometric modelling tools to applications of virtual/augmented reality, from interactive design to ergonomics, human factors research and reverse engineering. Further topics include integrated design and optimization methods, as well as experimental validation techniques for product, processes and systems development, such as additive manufacturing technologies. This book is based on the International Conference on Design Tools and Methods in Industrial Engineering, ADM 2019, held on September 9–10, 2019, in Modena, Italy, and organized by the Italian Association of Design Methods and Tools for Industrial Engineering, and the Department of Engineering “Enzo Ferrari” of the University of Modena and Reggio Emilia, Italy. It provides academics and professionals with a timely overview and extensive information on trends and technologies in industrial design and manufacturing.