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**Combinatori
al
Optimization**

**and
Applications**

Apress
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. *VMware Virtual SAN Cookbook* Packt Publishing Ltd

Management Information Systems provides comprehensive and integrative coverage of essential new technologies, information system applications, and their impact on business models and managerial decision-making in an exciting and interactive manner. The twelfth edition focuses on the major changes that have been made in information technology over the past two years, and includes new opening, closing, and Interactive Session cases. *VMware vSphere PowerCLI Reference* Packt Publishing Ltd This IBM® Redbooks® publication provides best practices for the IBM System Storage N series and SnapManager® for Virtual Infrastructure 2.0 (SMVI). We address the resource utilization issues typically found within virtual environments by leveraging the underlying Snapshot technology, which enables you to create point-in-time copies of your virtual machines or entire data stores and then restore from these backup copies at any level of granularity, datastore, VM, disk (VMDK), or guest file, simply and quickly when required. In addition, we provide best practices for protecting the SMVI server and recovering in case of a disaster. Furthermore,

we explain the seamless integration of N series storage solutions, including MetroCluster, so customers can leverage storage and virtualization technologies to create dynamic infrastructures that can create tremendous business value. The reader of this book will gain a deep understanding of how to implement SnapManager for Virtual Infrastructure in VMware vSphere

environments. VCP-DCV for vSphere 7.x (Exam 2V0-21.20) Official Cert Guide Cisco Press Achieve the performance, scalability, and ROI your business needs What can you do at the start of a virtualization deployment to make things run more smoothly? If you plan, deploy, maintain, and optimize vSphere solutions in your company, this unique book provides keen insight and

solutions. From hardware selection, network layout, and security considerations to storage and hypervisors, this book explains the design decisions you'll face and how to make the right choices. Written by two virtualization experts and packed with real-world strategies and examples, VMware vSphere Design, Second Edition will help you design smart

design decisions. Shows IT administrators how plan, deploy, maintain, and optimize vSphere virtualization solutions. Explains the design decisions typically encountered at every step in the process and how to make the right choices. Covers server hardware selection, network topology, security, storage, virtual machine design, and more Topics

include ESXi hypervisors deployment, vSwitches versus dvSwitches, and FC, FCoE, iSCSI, or NFS storage. Find out the "why" behind virtualization design decisions and make better choices, with VMware vSphere Design, Second Edition, which has been fully updated for vSphere 5.x. [Vsphere High Performance Cookbook](#) Packt Publishing Ltd. To help readers understand

virtualization and cloud computing, this book is designed to cover the theories and concepts enough to understand the cutting-edge technology. Meanwhile, in this book, the reader can gain hands-on skills on VMware Cloud Suite to create a private cloud. With the academic support from VMware, readers can use the VMware supported software to create various virtualized IT

infrastructures (HCI) use cases, and sophisticated combines compares enough for storage, solutions from various sized compute, and a vendor- enterprises. networking in neutral Then, the one unified perspective. virtualized IT system, He guides you infrastructure managed through the virtualized IT infrastructure can be made locally or from evaluation, available to an the cloud. planning, enterprise through the With HCI, you implementation, private cloud services. You can leverage the cloud's management, Getting Started with VMware Virtual San simplicity, helping you decide where HCI makes sense, and how to migrate legacy data centers without disrupting production systems. The author brings together all the HCI knowledge technical professionals and IT Pearson IT Certification Improve Manageability, Flexibility, Scalability, and Control with Hyperconverged Infrastructure Hyperconverged infrastructure

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| <p>managers need, whether their background is in storage, compute, virtualization, switching/routing, automation, or public cloud platforms. He explores leading solutions including the Cisco HyperFlex platform, VMware vSAN, Nutanix Enterprise Cloud, Cisco Application-Centric Infrastructure (ACI), VMware's NSX, the open source OpenStack and Open</p> | <p>vSwitch (OVS) / Open Virtual Network (OVN), and Cisco CloudCenter for multicloud management. As you explore discussions of automation, policy management, and other key HCI capabilities, you'll discover powerful new opportunities to improve control, security, agility, and performance. Understand and overcome key limits of traditional data center designs. Discover improvements</p> | <p>made possible by advances in compute, bus interconnect, virtualization, and software-defined storage. Simplify rollouts, management, and integration with converged infrastructure (CI) based on the Cisco Unified Computing System (UCS). Explore HCI functionality, advanced capabilities, and benefits. Evaluate key HCI applications, including DevOps,</p> |
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| <p>virtual desktops, ROBO, edge computing, Tier 1 enterprise applications, backup, and disaster recovery Simplify application deployment and policy setting by implementing a new model for provisioning, deployment, and management Plan, integrate, deploy, provision, manage, and optimize the Cisco HyperFlex hyperconverged</p> | <p>infrastructure platform Assess alternatives such as VMware vSAN, Nutanix, open source OpenStack, and OVS/OVN, and compare architectural differences with HyperFlex Compare Cisco ACI (Application-Centric Infrastructure) and VMware NSX approaches to network automation, policies, and security This book is part of the Networking Technology Series from</p> | <p>Cisco Press, which offers networking professionals valuable information for constructing efficient networks, understanding new technologies, and building successful careers. <i>IBM SAN Volume Controller Stretched Cluster with PowerVM and PowerHA</i> Packt Publishing Ltd A comprehensive, practical guide to accessing virtual desktops,</p> |
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applications, and services through a unified platform
 About This Book This is the first book on the market that delivers desktops and applications through a single Virtual Desktop Infrastructure platform
 Reduce enterprise costs by dynamically allocating resources with virtual storage, compute and networking
 This comprehensive guide provides simplified

operations, improved security, and accelerated time-to-value using VMware Horizon 7
 Who This Book Is For If you are a newcomer to system administration, and you wish to implement the Horizon environment, then this book is for you.
 Prior knowledge of Horizon is beneficial.
 What You Will Learn Walk through the configuration of VMware Horizon, including the new Horizon Access Point appliance

Implement a multi-site VMware Horizon pod using the Cloud Pod Architecture feature
 Understand the integration between VMware Horizon and VSAN, and see how they are deployed together
 Explore how to implement and maintain Microsoft RDS and Linux and Windows Desktop Pools
 Create and optimize desktop master images.
 Understand how to

manage the SSL certificates for each of the VMware Horizon components. In Detail VMware Horizon 7 has been a buzz since it was announced. One of the major reasons is the introduction of the new Instant Clones feature. This book will complement the product documentation by providing real-life examples of how it is implemented along with the latest features and

components of the platform. We'll explore the latest features of the platform, including those added through product acquisitions such as User Environment Manager and App Volumes. Further on, you will also be introduced to the new capabilities added to the core product such as Linked-Clone RDS pools. Upon completion of this book, you will have an understanding of the capabilities

and benefits VMware Horizon can provide to your organization, and how each of its components are implemented. Style and approach This comprehensive guide focuses on the practicality of VMware Horizon and how you can implement it in your organization. [IBM PowerVC Version 2.0 Introduction and Configuration](#) IBM Redbooks IBM® System Storage® N series

technology enables companies to extend their virtual infrastructures to include the benefits of advanced storage virtualization. The N series offers unified storage solutions that provide industry-leading technologies in the areas of storage efficiencies, instantaneous virtual machine and datastore cloning for virtual servers and virtual desktops, and virtual data center backup

and business continuance solutions. This IBM Redbooks® publication reviews the best practices for anyone who is implementing VMware® vSphere with N series unified storage arrays. Operationalizing VMware NSX Newnes 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. **VMware vSphere Design** IBM Redbooks This book is intended for

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| server administrators and storage administrators who would like to successfully build and scale a VSAN-backed vSphere infrastructure. A basic understanding of vSphere concepts and storage fundamentals will be helpful. <u>Learning Veeam® Backup & Replication for VMware vSphere</u> Press This is the eBook edition of the VCP-DCV for vSphere 7.x (Exam 2V0-21.20) | Cert Guide. This eBook does not include access to the Pearson Test Prep practice exams that comes with the print edition. Learn, prepare, and practice for VMware Certified Professional - Data Center Virtualization for vSphere 7 exam success with this VCP-DCV for vSphere 7.x (Exam 2V0-21.20) Cert Guide from Pearson IT Certification, a leader in IT Certification learning. | Master the VMware Certified Professional - Data Center Virtualization for vSphere 7 exam topics Assess your knowledge with chapter-opening quizzes Review key concepts with exam preparation tasks Practice with realistic exam questions VCP-DCV for vSphere 7.x (Exam 2V0-21.20) Cert Guide is a best-of-breed exam study guide. Leading experts John A. Davis, Steve Baca, |
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and Owen Thomas share preparation hints and test-taking tips, helping you identify areas of weakness and improve both your conceptual knowledge and hands-on skills. Material is presented in a concise manner, focusing on increasing your understanding and retention of exam topics. The book presents you with an organized test preparation routine through the use of proven series

elements and techniques. Exam topic lists make referencing easy. Chapter-ending Exam Preparation Tasks help you drill on key concepts you must know thoroughly. Review questions help you assess your knowledge, and a final preparation chapter guides you through tools and resources to help you craft your final study plan. Well regarded for its level of detail, assessment

features, and challenging review questions and exercises, this study guide helps you master the concepts and techniques that will allow you succeed on the VMware Certified Professional - Data Center Virtualization for vSphere 7 exam, including Architectures and Technologies VMware Products and Solutions Components and Requirements Installing, Configuring,

and Setup
Performance-
tuning,
Optimization,
Upgrades
Clusters and
High
Availability
Administrative
and
Operational
Tasks
*VMware
Workstation -
No Experience
Necessary*
John Wiley &
Sons
Lay the
foundations
for data
center
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vSphere 6 and
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your
understanding
of its power
About This
Book Learn
how server
virtualization
is achieved
and how a
virtual
infrastructure
is built using
VMware's
products and
solutions.
Design to
create a
scalable and
responsive
virtualization
platform for
hosting the
virtual
machine
workloads of a
business.
Manage
compute,
network and
storage
resources of a
virtual
infrastructure.
Relevant
conceptual
diagrams,
flowcharts and
screen-
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enable in-
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n of the
concepts.
Also, the
concise
writing style
makes this
book a very
easy read.
Who This Book
Is For This is a
book for any
experienced
technologist
who is new to
the realm of
Data Center
virtualization
wanting to
find a way to
get a head
start in
learning how
to design,
implement
and manage a
modern day
datacenter
virtualized

using VMware's core infrastructure solutions. It could also act as a comprehensive reference guide for Infrastructure Architects and System Administrators to aid them in their day to day activities. This book could easily find its place in reference materials used by professionals for VCP and VCAP certification exams. Keep in mind however that the book is not written to follow as a

blueprint for either of the exams. What You Will Learn Understand the architecture of the hypervisor and learn how to install and deploy and configure ESXi hosts Find out what forms a VMware Virtual Machine can take and also learn how to create and manage them Familiarize yourself with the concepts of vSphere Storage and learn how to present and manage storage in a vSphere environment

Create and manage software switching constructs such as the vNetwork Standard Switch and vNetwork Distributed Switches Monitor the performance of a vSphere environment using tools such as the vCenter Performance Graphs and 'esxtop' Manage SSL certificates in a vSphere environment Upgrade and patch a vSphere environment using vSphere Update

Manager In Detail Computer virtualization is a method to enable the running of multiple application workloads on a machine to achieve efficient utilization and reduce the number of physical machines in a data center. This has now become the foundation of many modern day data centers. What began as a technology to virtualize x86 architecture has now grown beyond the limits of a server's hardware and into the realm of storage and network virtualization. VMware is currently the market leader in developing data center virtualization solutions. This book goes into the details of designing and implementing VMware solutions that form the foundation of a VMware infrastructure. The book begins by introducing you to the concepts of server virtualization followed by the architecture of VMware's hypervisor – ESXi and then by its installation and configuration. You then learn what is required to manage a vSphere environment and configure advanced management capabilities of vCenter. Next you are taken through topics on vSphere Networking, Storage, ESXi Clustering, Resource Management and Virtual Machine Management. You will then be introduced

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| <p>to SSL Certificate Management and its use in a vSphere environment. Finally, you will learn about the lifecycle management of a vSphere environment by effectively monitoring, patching and upgrading vSphere components using Update Manager. By the end of the book, you will know how to use VMware's vSphere suite of components to lay the foundation of a modern day virtual</p> | <p>infrastructure. Style and approach This is an easy-to-follow guide that will give you everything you need to fully understand the concepts involved in data center virtualization. The screenshots, concept diagrams, and flowcharts included will help you understand the subjects discussed better. <u>VMware Horizon View High Availability</u> Packt Publishing</p> | <p>Understand and implement VMware Virtual SAN: the heart of tomorrow's Software-Defined Datacenter (SDDC) VMware's breakthrough Software-Defined Datacenter (SDDC) initiative can help you virtualize your entire datacenter: compute, storage, networks, and associated services. Central to SDDC is VMware Virtual SAN (VSAN): a fully</p> |
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distributed storage architecture seamlessly integrated into the hypervisor and capable of scaling to meet any enterprise storage requirement. Now, the leaders of VMware's wildly popular Virtual SAN previews have written the first authoritative guide to this pivotal technology. You'll learn what Virtual SAN is, exactly what it offers, how to implement it, and how to

maximize its value. Writing for administrators, consultants, and architects, Cormac Hogan and Duncan Epping show how Virtual SAN implements both object-based storage and a policy platform that simplifies VM storage placement. You'll learn how Virtual SAN and vSphere work together to dramatically improve resiliency, scale-out storage functionality, and control

over QoS. Both an up-to-the-minute reference and hands-on tutorial, Essential Virtual SAN uses realistic examples to demonstrate Virtual SAN's most powerful capabilities. You'll learn how to plan, architect, and deploy Virtual SAN successfully, avoid gotchas, and troubleshoot problems once you're up and running. Coverage includes Understanding the key goals and concepts of Software-

Defined Storage and Virtual SAN technology Meeting physical and virtual requirements for safe Virtual SAN implementation Installing and configuring Virtual SAN for your unique environment Using Storage Policy Based Management to control availability, performance, and reliability Simplifying deployment with VM Storage Policies Discovering key Virtual SAN

architectural details: caching I/O, VASA, witnesses, pass-through RAID, and more Ensuring efficient day-to-day Virtual SAN management and maintenance Interoperating with other VMware features and products Designing and sizing Virtual SAN clusters Troubleshooting, monitoring, and performance optimization **IBM System Storage N series and VMware**

vSphere Storage Best Practices
Packt Publishing Ltd
Annotation
Enter the new era of data storage that combines database and networking technologies with this introductory comparison and practical implementation of Storage Area Networks.
Multiple vendor reference: This book provides solutions and schemes from competing SAN vendors, including an appendix of

available SAN products. Readers will learn to customize their own SAN solution: Authors forecast future growth of SANs in an Advanced Study of Virtual Interface. Technically accurate instruction: NIIT recently earned the National Education and Training group Excellence Award for defect-free deliveries of Learning products. Even highly experienced system or

network professionals are unfamiliar with SAN functionality and terminology. This book opens with an overview of the need for data storage in an enterprise environment, the different types of data storage devices, and existing data storage techniques. The authors build on that foundation with an exploration of the evolution of SAN, the various networking models and

data-centric applications, a chapter dedicated to fiber channel, and practical solutions for centralized, heterogeneous, and high-speed data storage challenges. The second half of this book delves into more practical applications of the SAN: designing, implementing, managing, and troubleshooting a SAN. The last chapter explores how SAN fits into the current Web scenario, and VI

Architecture as a new system of cluster communications. Unlike competing titles, this book provides solutions for alternative SAN vendors, comparing SAN schemes for competitive products. NIIT is a global eBusiness IT Solutions Corporation that has provided over 650 Educational Multimedia Software titles and more than 10,000 hours of instructor-led training during its 16

years of training delivery. Judged the Best Training Company through an opinion poll among over 1000 CIOs, software professionals, and IT users by ComputerWorld magazine, NIIT provides classroom-based training, technology-based training, and Internet-based training. Essential Virtual SAN Packt Publishing Ltd This book is a practical, hands-on

guide that will help you learn everything you need to know to administer your environment with VMware vCenter Server. Throughout the book, there are best practices and useful tips and tricks which can be used for day-to-day tasks. If you are an administrator or a technician starting with VMware, with little or no knowledge of virtualization products, this book is ideal for you. Even

if you are an IT professional looking to expand your existing environment, you will be able to use this book to help you improve the management of these environments. IT managers will find it helpful in terms of improving cost efficiency, ensuring required levels of service and utilising its excellent reporting abilities.

**Using
Storage Area
Networks**
Packt

Publishing Ltd
Successfully create and manage your Hyper-V environment without any of the marketing fluff. This book's lab-driven, hands-on approach will get you up and running as quickly and efficiently as possible. Virtualization is the cornerstone of today's data center. As a modern-day IT pro, you are required to manage environments that are in a regular state of flux and increasing in both size and

complexity. To keep up, you need practical information in a format that is succinct, yet comprehensive and highly applicable. Pro Hyper-V 2019 breaks down critical and time-saving topics into a series of easy-to-digest chapters, showing you how to perform Hyper-V management tasks using both GUI and PowerShell-based tools. Building on your existing knowledge of Windows Server

management, Active Directory, networking, and storage, experts and Microsoft MVPs Syrewicze and Siddaway begin with a foundation of why computing workloads are virtualized. This is followed by chapters covering the range of management tasks associated with virtualized environments, including: managing hosts and guest machines;

networking, storage, and high availability (host and guest); disaster recovery and virtual machine migration; and monitoring. What You'll Learn Apply practical information to administer your Hyper-V environments Understand multiple administration styles (GUI, command line, and automation) Written by IT pros for IT pros - just the information you really need without

the padding Administer and use containers Utilize hands-on labs to learn about storage, networking, and high availability Who This Book Is For IT administrators tasked with implementing Hyper-V environments or migrating from VMware. IT pros joining a team that is responsible for managing Hyper-V and "lone administrators" covering the gamut in smaller organizations will also find

this book indispensable. *VMware vSphere PowerCLI Reference* Packt Publishing Ltd VMware's vSAN has rapidly proven itself in environments ranging from hospitals to oil rigs to e-commerce platforms and is one of the top three players in the hyperconverged space. Along the way, it has matured to offer unsurpassed features for data integrity, availability, and space

efficiency. vSAN 6.7 U1 has radically simplified IT operations and supports the transition to hyperconverged infrastructures (HCI). The authors of the vSAN Deep Dive have thoroughly updated their definitive guide to this transformative technology. Writing for vSphere administrators, architects, and consultants, Cormac Hogan, and Duncan Epping explain what vSAN is,

how it has evolved, what it now offers, and how to gain maximum value from it. The book offers expert insight into preparation, installation, configuration, policies, provisioning, clusters, architecture, and more. You'll also find practical guidance for using all data services, stretched clusters, and two node configurations. This book is part of the Deep Dive series. Combine this book

with the vSphere 6.5 Host Deep Dive, and the vSphere 6.7 Clustering Deep Dive, and you have an in-depth and comprehensive set of books that deliver the information you need to design and administer both vSphere and vSAN in the enterprise. Often referred to in the virtual community as the vSphere Resource kit, the Host Resource Deep Dive zooms in on hardware

resources such as CPU and Memory and covers how the vSphere resource scheduler manages these. The vSAN Deep Dive discusses how to leverage local storage devices to create a shared storage platform and the Clustering Deep Dive builds on top of that and zooms in how a group of ESXi hosts work together and provide compute clustering services. Buy

all three and become your organizations' private cloud superhero! [Implementing VMware Horizon 7 Que Publishing IBM® Power Virtualization Center \(IBM® PowerVCTM\)](#) is an advanced enterprise virtualization management offering for IBM Power Systems. This IBM Redbooks® publication introduces IBM PowerVC and helps you understand its functions, planning, installation, and setup. It also shows

how IBM PowerVC can integrate with systems management tools such as Ansible or Terraform and that it also integrates well into a OpenShift container environment. IBM PowerVC Version 2.0.0 supports both large and small deployments, either by managing IBM PowerVM® that is controlled by the Hardware Management Console (HMC), or by IBM PowerVM NovaLink. With this

capability, IBM PowerVC can manage IBM AIX®, IBM i, and Linux workloads that run on IBM POWER® hardware. IBM PowerVC is available as a Standard Edition, or as a Private Cloud Edition. IBM PowerVC includes the following features and benefits: Virtual image capture, import, export, deployment, and management Policy-based virtual machine (VM) placement to improve

server usage Snapshots and cloning of VMs or volumes for backup or testing purposes Support of advanced storage capabilities such as IBM SVC vdisk mirroring of IBM Global Mirror Management of real-time optimization and VM resilience to increase productivity VM Mobility with placement policies to reduce the burden on IT staff in a simple-to-install and

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| <p>easy-to-use graphical user interface (GUI) Automated Simplified Remote Restart for improved availability of VMs ifor when a host is down Role-based security policies to ensure a secure environment for common tasks The ability to enable an administrator to enable Dynamic Resource Optimization on a schedule IBM PowerVC Private Cloud Edition includes all of the IBM</p> | <p>PowerVC Standard Edition features and enhancements : A self-service portal that allows the provisioning of new VMs without direct system administrator intervention. There is an option for policy approvals for the requests that are received from the self-service portal. Pre-built deploy templates that are set up by the cloud administrator that simplify the deployment of</p> | <p>VMs by the cloud user. Cloud management policies that simplify management of cloud deployments. Metering data that can be used for chargeback. This publication is for experienced users of IBM PowerVM and other virtualization solutions who want to understand and implement the next generation of enterprise virtualization management for Power</p> |
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Systems. Unless stated otherwise, the content of this publication refers to IBM PowerVC Version 2.0.0.

Storage and Network Convergence Using FCoE and iSCSI

Pearson Educación

Along with servers and networking infrastructure, networked storage is one of the fundamental components of a modern data center. Because storage networking has evolved over the past two decades,

the industry has settled on the basic storage networking technologies. These technologies are Fibre Channel (FC) storage area networks (SANs), Internet Small Computer System Interface (iSCSI)-based Ethernet attachment, and Ethernet-based network-attached storage (NAS). Today, lossless, low-latency, high-speed FC SANs are viewed as the high-

performance option for networked storage. iSCSI and NAS are viewed as lower cost, lower performance technologies. The advent of the 100 Gbps Ethernet and Data Center Bridging (DCB) standards for lossless Ethernet give Ethernet technology many of the desirable characteristics that make FC the preferred storage networking technology. These characteristics include comparable

speed, low latency, and lossless behavior. Coupled with an ongoing industry drive toward better asset utilization and lower total cost of ownership, these advances open the door for organizations to consider consolidating and converging their networked storage infrastructures with their Ethernet data networks. Fibre Channel over Ethernet (FCoE) is one

approach to this convergence, but 10-Gbps-enabled iSCSI also offers compelling options for many organizations with the hope that their performance can now rival that of FC. This IBM® Redbooks® publication is written for experienced systems, storage, and network administrators who want to integrate the IBM System Networking and Storage technology successfully into new and

existing networks. This book provides an overview of today's options for storage networking convergence. It reviews the technology background for each of these options and then examines detailed scenarios for them by using IBM and IBM Business Partner convergence products. [Management Information Systems](#) IBM Redbooks This primer on NSX-T helps you understand

the capabilities and features of NSX-T, how to configure and manage NSX-T, and integrate NSX-T with other software. The book is the first in a series that will teach you the basics of NSX-T, which is an update of VMware's original software-defined networking (SDN) architecture aimed at making networks agile and flexible. You will become familiar with VMware's

software-defined data center (SDDC) ecosystem and how NSX-T fits in. You will understand NSX-T components such as NSX-T Manager, NSX-T Edge Transport Nodes, and NSX-T Host Transport Nodes. And you will learn how to install and configure network services such as East/West and North/South routing capabilities, layer two switching, VRF, EVPN, multicast, and

layer two bridging. The book provides best practices on how to configure routing and switching features, and teaches you how to get the required visibility of not only your NSX-T platform but also your NSX-T-enabled network infrastructure. The book explains security, advanced network features, and multi-site capabilities and demonstrates how network and security services can

be offered across multiple on-premise locations with a single pane of glass for networking and security policy management. The interface with public cloud services is discussed and the book explains NSX-T operation in

an on-premise private cloud and positioning and integrating NSX-T on a public cloud (off premises). What You Will Learn Understand how NSX-T fits in the VMware SDDC ecosystem Know what NSX-T is, its

components, and the terminology used Install NSX-T Configure NSX-T network services Manage the NSX-T network Who This Book Is For Virtualization administrators , system integrators, and network administrators