

Hyper V Design Guide

Microsoft Virtualization Secrets
System Center 2016 Virtual Machine Manager Cookbook,
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Endpoint Security and Compliance Management Design Guide Using IBM Tivoli Endpoint Manager
Designing Hyper-V Solutions
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DB2 Virtualization
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Windows Server 2019 & PowerShell All-in-One For Dummies
Microsoft Hyper-V Cluster Design
Windows Server 2012 Hyper-V Installation and Configuration Guide
MCSA Windows Server 2012 R2 Complete Study Guide
Building Virtual Machine Labs
Windows Server 2012 Hyper-V Installation and Configuration Guide
MCSA 70-687 Cert Guide
70-410 Installing & Configuring Windows Server 2012 R2
Microsoft Azure Infrastructure Services for Architects
MCSA Guide to Installation, Storage, and Compute with Microsoft Windows Server 2016, Exam 70-740
MCITP: Windows Server 2008 Enterprise Administrator Study Guide
Windows Server 2008 Hyper-V
Pro Microsoft Hyper-V 2019
Hyper-V Security
Mastering Windows Server 2016
Windows Server 2008 Hyper-V Unleashed
Designing Hyper-V Solutions
Windows Server 2008 Hyper-V Resource Kit
Mastering Hyper-V Deployment
Windows Server 2016 Unleashed (includes Content Update Program)
MCSA Windows Server 2012 R2 Installation and Configuration Study Guide
Mastering Windows Server 2019
Learning Hyper-VMCSA 70-740 Cert Guide
MCSA 70-410 Cert Guide R2
Instant Hyper-V Server Virtualization Starter
Windows Server 2019 Inside Out
Virtualization Security

Microsoft Virtualization Secrets

Conquer Windows Server 2019—from the inside out! Dive into Windows Server 2019—and really put your Windows Server expertise to work. Focusing on Windows Server 2019's most powerful and innovative features, this supremely organized reference packs hundreds of timesaving solutions, tips, and workarounds—all you need to plan, implement, or manage Windows Server in enterprise, data center, cloud, and hybrid environments. Fully reflecting new innovations for security, hybrid cloud environments, and Hyper-Converged Infrastructure (HCI), it covers everything from cluster sets to Windows Subsystem for Linux. You'll discover how experts tackle today's essential tasks—and challenge yourself to new levels of mastery.

- Optimize the full Windows Server 2019 lifecycle, from planning and configuration through rollout and administration
- Leverage new configuration options including App Compatibility Features on Demand (FOD) or Desktop Experience
- Ensure fast, reliable upgrades and migrations
- Manage Windows servers, clients, and services through Windows Admin Center
- Seamlessly deliver and administer core DNS, DHCP, file, print, storage, and Internet services
- Use the Storage Migration Service to simplify storage moves and configuration at the destination
- Seamlessly integrate Azure IaaS and hybrid services with Windows Server 2019
- Improve agility with advanced container technologies, including container networking and integration into Kubernetes orchestration clusters
- Deliver Active Directory identity, certificate, federation, and rights management services
- Protect servers, clients, VMs, assets, and users with advanced Windows

Server 2019 security features, from Just Enough Administration to shielded VMs and guarded virtualization fabrics • Monitor performance, manage event logs, configure advanced auditing, and perform backup/recovery Windows Server 2019 For Experienced Windows Server Users and IT Professionals • Your role: Experienced intermediate to-advanced level Windows Server user or IT professional • Prerequisites: Basic understanding of Windows Server procedures, techniques, and navigation

System Center 2016 Virtual Machine Manager Cookbook,

This scenario-focused title provides concise technical guidance and insights for troubleshooting and optimizing networking with Hyper-V. Written by experienced virtualization professionals, this little book packs a lot of value into a few pages, offering a lean read with lots of real-world insights and best practices for Hyper-V networking optimization in Windows Server 2012. Focused guide extends your knowledge and capabilities with Hyper-V networking in Windows Server 2012 Shares hands-on insights from a team of Microsoft virtualization experts Provides pragmatic troubleshooting and optimization guidance from the field

Mastering Windows Server 2016

Server virtualization technologies are becoming more popular to help efficiently utilize resources by consolidating servers. IBM®, the first company that developed and made available the virtual technology in 1966, offers advanced, powerful, reliable, and cost-saving virtualization technologies in various hardware and software products including DB2® for Linux, UNIX, and Windows. This IBM Redbooks® publication describes using IBM DB2 9 with server virtualization. We start with a general overview of virtualization and describe specific server virtualization technologies to highlight how the server virtualization technologies have been implemented. With this introduction anyone new to virtualization will have a better understanding of server virtualization and the industry server virtualization technologies available in the market. Following the virtualization concept, we describe in detail the setup, configuration, and managing of DB2 with three leading server virtualization technologies: IBM Power Systems™ with PowerVM™ VMware Hyper-V We discuss the virtual machine setup with DB2 in mind to help IT support understand the effective ways of setting up a virtual environment specific for DB2. We explain the architecture and components of these three server virtualization technologies to allow DBAs to understand how a database environment using DB2 can benefit from using the server virtualization technologies. In addition, we discuss the DB2 features and functions that can take advantage of using server virtualization. These features are put into practice when describing how to set up DB2 with the three virtualization technologies discussed in this book. This book also includes a list of best practices from the various tests performed while using these virtualization technologies. These best practices can be used as a guideline or a reference when setting up DB2 using these virtualization technologies.

Windows Server 2012 Hyper-V Cookbook

This book takes a comprehensive tutorial approach with plenty of screenshots and detailed step-by-step instructions. This book is for Windows server administrators, who may not necessarily be familiar with Hyper-V, and also for existing Hyper-V administrators who want to advance their skills in Windows Server 2012 Hyper-V.

Endpoint Security and Compliance Management Design Guide Using IBM Tivoli Endpoint Manager

An expert guide for IT administrators needing to create and manage a public cloud and virtual network using Microsoft Azure. With Microsoft Azure challenging Amazon Web Services (AWS) for market share, there has been no better time for IT professionals to broaden and expand their knowledge of Microsoft's flagship virtualization and cloud computing service. Microsoft Azure Infrastructure Services for Architects: Designing Cloud Solutions helps readers develop the skills required to understand the capabilities of Microsoft Azure for Infrastructure Services and implement a public cloud to achieve full virtualization of data, both on and off premise. Microsoft Azure provides granular control in choosing core infrastructure components, enabling IT administrators to deploy new Windows Server and Linux virtual machines, adjust usage as requirements change, and scale to meet the infrastructure needs of their entire organization. This accurate, authoritative book covers topics including IaaS cost and options, customizing VM storage, enabling external connectivity to Azure virtual machines, extending Azure Active Directory, replicating and backing up to Azure, disaster recovery, and much more. New users and experienced professionals alike will: Get expert guidance on understanding, evaluating, deploying, and maintaining Microsoft Azure environments from Microsoft MVP and technical specialist John Savill. Develop the skills to set up cloud-based virtual machines, deploy web servers, configure hosted data stores, and use other key Azure technologies. Understand how to design and implement serverless and hybrid solutions. Learn to use enterprise security guidelines for Azure deployment. Offering the most up to date information and practical advice, Microsoft Azure Infrastructure Services for Architects: Designing Cloud Solutions is an essential resource for IT administrators, consultants and engineers responsible for learning, designing, implementing, managing, and maintaining Microsoft virtualization and cloud technologies.

Designing Hyper-V Solutions

Using the Hyper-V virtualization capabilities built into Windows Server 2008, organizations can slash costs for power, space, and maintenance, and dramatically improve IT flexibility at the same time. This is the first book to offer comprehensive, independent, real-world coverage of planning, designing, implementing, and supporting Windows Server 2008 Hyper-V virtualization environments. Authored by Rand Morimoto and Jeff Guillet—top consultants of Microsoft technologies with unsurpassed experience deploying Hyper-V in enterprise organizations—this book delivers start-to-finish guidance for every facet of your virtualization initiative. Leverage the experience from hundreds of real world implementations of Hyper-V and Virtual Machine Manager 2008 in your deployment of a virtualized server environment. Implement best practices for planning, prototyping, and deploying Hyper-V—including strategies, processes, and

templates Install and configure Windows 2008 Server with Windows Hyper-V Services Provide guest operating systems ranging from Windows 2003 Server to Linux Administer Hyper-V Host Servers as standalone hosts or in multiple host environments Optimize Hyper-V Host Server and guest sessions, by efficiently allocating memory, processors, disk space, and other resources Move from basic server virtualization to a systematically managed virtual enterprise environment Use Virtual Machine Manager 2008 to centrally monitor all your Hyper-V hosts and guest sessions Quickly provision new guest images wherever and whenever you need them Implement reliable failover processes to overcome failures in guest sessions, host systems, or sites Troubleshoot problems with both Hyper-V hosts and guest operating systems

Mastering Microsoft Virtualization

Packed with hands-on activities, MCSA GUIDE TO INSTALLATION, STORAGE, AND COMPUTE WITH MICROSOFT WINDOWS SERVER 2016, EXAM 70-740 equips readers to pass the MCSE/MCSA certification exam while preparing users to become a successful Microsoft networking professional. A clear presentation emphasizes the skills to manage a Windows Server 2016 system and focuses on installation, management, and configuration. Extensive coverage of all exam objectives introduces Windows Server 2016 and covers server installation, server configuration and management, storage and file systems, Hyper-V virtualization, high availability, and server maintenance and monitoring. A full chapter highlights new technologies, including Nano Server and Windows Containers. Unlike many certification-focused books, this edition goes beyond the certification objectives to provide an understanding of the core technologies built into Windows Server. Numerous hands-on activities focus on virtualization. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

Microsoft System Center Deploying Hyper-V with Software-Defined Storage & Networking

Focused technical guidance from System Center experts Part of a series of specialized guidance on System Center--this book provides a single end-to-end resource on Microsoft's software-defined datacenter solution built upon Windows Server 2012 R2 Hyper-V and System Center 2012 R2 Virtual Machine Manager. The book walks you through a proof of concept (POC) deployment of a software-defined compute, storage, and networking infrastructure, starting from racking bare-metal servers through to the streamlined deployment of virtual machines.

DB2 Virtualization

This book focuses on readers starting their journey with Hyper-V, and assumes they have minimal or no knowledge of virtualization.

Windows Server 2012 Hyper-V

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

Hyper-V Replica Essentials

A comprehensive and practical guide to Windows Server 2016 About This Book In-depth coverage of new features of Windows Server 2016 Gain the necessary skills and knowledge to design and implement Microsoft Server 2016 in enterprise environment Know how you can support your medium to large enterprise and leverage your experience in administering Microsoft Server 2016, A practical guide to administering Windows server 2016 Who This Book Is For The book is targeted at System Administrators and IT professionals who would like to design and deploy Windows Server 2016 (physical and logical) Enterprise infrastructure. Previous experience of Windows Server operating systems and familiarity with networking concepts is assumed. System administrators who are upgrading or migrating to Windows Server 2016 would also find this book useful. What You Will Learn Familiarize yourself with Windows Server 2016 ideology, the core of most datacenters running today New functions and benefits provided only by the new Windows Server 2016 Get comfortable working with Nanoserver Secure your network with new technologies in Server 2016 Harden your Windows Servers to help keep those bad guys out! Using new built-in integration for Docker with this latest release of Windows Server 2016 Virtualize your datacenter with Hyper-V In Detail Windows Server 2016 is the server operating system developed by Microsoft as part of the Windows NT family of operating systems, developed concurrently with Windows 10. With Windows Server 2016, Microsoft has gotten us thinking outside of the box for what it means to be a system administration, and comes with some interesting new capabilities. These are exciting times to be or to become a server administrator! This book covers all aspects of administration level tasks and activities required to gain expertise in Microsoft Windows Server 2016. You will begin by getting familiar and comfortable navigating around in the interface. Next, you will learn to install and manage Windows Server 2016 and discover some tips for adapting to the new server management ideology that is all about centralized monitoring and configuration. You will deep dive into core Microsoft infrastructure technologies that the majority of companies are going to

run on Server 2016. Core technologies such as Active Directory, DNS, DHCP, Certificate Services, File Services, and more. We will talk about networking in this new operating system, giving you a networking toolset that is useful for everyday troubleshooting and maintenance. Also discussed is the idea of Software Defined Networking. You will later walk through different aspects of certificate administration in Windows Server 2016. Three important and crucial areas to cover in the Remote Access role -- DirectAccess, VPN, and the Web Application Proxy -- are also covered. You will then move into security functions and benefits that are available in Windows Server 2016. Also covered is the brand new and all-important Nano Server! We will incorporate PowerShell as a central platform for performing many of the functions that are discussed in this book, including a chapter dedicated to the new PowerShell 5.0. Additionally, you will learn about the new built-in integration for Docker with this latest release of Windows Server 2016. The book ends with a discussion and information on virtualizing your datacenter with Hyper-V. By the end of this book, you will have all the ammunition required to start planning for and implementing Windows Server 2016. Style and approach This book offers a practical and wide coverage of all features of brand new Microsoft Server 2016 along with tips on daily administration tasks.

Optimizing and Troubleshooting Hyper-V Networking

Your one-stop reference for Windows Server 2019 and PowerShell know-how Windows Server 2019 & PowerShell All-in-One For Dummies offers a single reference to help you build and expand your knowledge of all things Windows Server, including the all-important PowerShell framework. Written by an information security pro and professor who trains aspiring system administrators, this book covers the broad range of topics a system administrator needs to know to run Windows Server 2019, including how to install, configure, and secure a system. This book includes coverage of: Installing & Setting Up Windows Server Configuring Windows Server 2019 Administering Windows Server 2019 Configuring Networking Managing Security Working with Windows PowerShell Installing and Administering Hyper-V Installing, Configuring, and Using Containers If you're a budding or experienced system administrator looking to build or expand your knowledge of Windows Server, this book has you covered.

Windows Server 2019 & PowerShell All-in-One For Dummies

This is the eBook version of the print title. Note that the eBook does not provide access to the practice test software that accompanies the print book. *Learn, prepare, and practice for MCSA 70-687 exam success with this Cert Guide from Pearson IT Certification, a leader in IT certification. Master MCSA 70-687 exam topics for Windows 8.1 configuration Assess your knowledge with chapter-ending quizzes Review key concepts with exam preparation tasks MCSA 70-687 Cert Guide: Configuring Microsoft® Windows 8.1 is a best-of-breed exam study guide. Best-selling authors and expert instructors Don Poulton, Randy Bellet, and Harry Holt 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 enable you to succeed on the exam the first time. The study guide helps you master all the topics on the MCSA 70-687 exam, including the following: Windows 8.1 introduction Hardware readiness and compatibility Installation and upgrades, including VHDs Migrating users, profiles, and applications Configuring devices and device drivers Installing, configuring, and securing applications Configuring Internet Explorer Configuring Hyper-V virtualization Configuring TCP/IP, network settings, and network security Configuring and securing access to files and folders, including OneDrive and NFC Configuring local security, authentication, and authorization Configuring remote connections and management Configuring and securing mobile devices Configuring Windows Updates Managing disks, backups, and system/file recovery Managing/monitoring system performance

Microsoft Hyper-V Cluster Design

Organizations today are more widely distributed than ever before, which can make systems management tasks, such as distributing software, patches, and security policies, extremely challenging. The IBM® Tivoli® Endpoint Manager platform is architected for today's highly diverse, distributed, and complex IT environments. It provides real-time visibility and control through a single infrastructure, single agent, and single console for systems lifecycle management, endpoint protection, and security configuration and vulnerability management. This platform enables organizations to securely manage their global IT infrastructures faster and more accurately, resulting in improved governance, control, visibility, and business agility. Plus, it gives organizations the ability to handle tomorrow's unforeseen challenges. In this IBM Redbooks® publication, we provide IT security professionals with a better understanding around the challenging topic of endpoint management in the IT security domain. We focus on IBM Tivoli Endpoint Manager for Security and Compliance and describe the product architecture and provide a hands-on design guide for deploying the solution. This book is a valuable resource for security professionals and architects who want to understand and implement a centralized endpoint management infrastructure and endpoint protection to better handle security and compliance challenges.

Windows Server 2012 Hyper-V Installation and Configuration Guide

Prepare for the MCSA Windows Server 2012 R2 Exams Microsoft's new version of the MCSA certification for Windows Server 2012 R2 requires passing three exams (or one Upgrade exam if you have your MCSA or MCITP in Windows Server 2008). This value-priced study guide includes more than 1,000 pages of quality exam-prep content, covering 100% of the objective domains of all three exams (as well as the Upgrade exam, 70-417). In addition, you get access to an interactive

practice test environment with more than 500 questions, electronic flashcards, and videos showing how to perform the more difficult tasks. Both first-time MCSA candidates and those wishing to upgrade from Server 2008 certification will benefit from this complete test-prep guide. Completely updated to cover the Windows Server 2012 R2 Exams Provides a comprehensive study guide for all three MCSA Windows Server 2012 R2 exams: 70-410, 70-411, and 70-412, as well as the Upgrade exam: 70-417 Covers installing and configuring Windows Server 2012; deploying and configuring DNS service; administering Active Directory; creating and managing Group Policy Objects; and configuring server roles and features, Hyper-V, and core networking services Explains basic networking concepts, DHCP, deploying and maintaining servers, configuring a network policy server infrastructure and high availability in Windows Server 2012, and much more Features real-world scenarios, hands-on exercises, practice exam questions, electronic flashcards, and over an hour of video demonstrations Covers all exam objectives MCSA Windows Server 2012 R2 Complete Study Guide arms you with all the information you must master to achieve MCSA certification on Windows Server 2012 R2.

MCSA Windows Server 2012 R2 Complete Study Guide

Go-to guide for using Microsoft's updated Hyper-V as a virtualization solution Windows Server 2012 Hyper-V offers greater scalability, new components, and more options than ever before for large enterprise systems and small/medium businesses. Windows Server 2012 Hyper-V Installation and Configuration Guide is the place to start learning about this new cloud operating system. You'll get up to speed on the architecture, basic deployment and upgrading, creating virtual workloads, designing and implementing advanced network architectures, creating multi-tenant clouds, backup, disaster recovery, and more. The international team of expert authors offers deep technical detail, as well as hands-on exercises and plenty of real-world scenarios, so you thoroughly understand all features and how best to use them. Explains how to deploy, use, manage, and maintain the Windows Server 2012 Hyper-V virtualization solutions in large enterprises and small-to medium-businesses Provides deep technical detail and plenty of exercises showing you how to work with Hyper-V in real-world settings Shows you how to quickly configure Hyper-V from the GUI and use PowerShell to script and automate common tasks Covers deploying Hyper-V hosts, managing virtual machines, network fabrics, cloud computing, and using file servers Also explores virtual SAN storage, creating guest clusters, backup and disaster recovery, using Hyper-V for Virtual Desktop Infrastructure (VDI), and other topics Help make your Hyper-V virtualization solution a success with Windows Server 2012 Hyper-V Installation and Configuration Guide.

Building Virtual Machine Labs

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.

Windows Server 2012 Hyper-V Installation and Configuration Guide

This is the eBook version of the print title. Note that the eBook does not provide access to the practice test software that accompanies the print book. Access to the appendixes and video lessons is available through product registration at Pearson IT Certification; or see instructions in back pages of your eBook. Learn, prepare, and practice for MCSA 70-740 exam success with this Cert Guide from Pearson IT Certification, a leader in IT certification. Master MCSA 70-740 exam topics Assess your knowledge with chapter-ending quizzes Review key concepts with exam preparation tasks Learn from more than one hour of video lessons MCSA 70-740 Cert Guide is a best-of-breed exam study guide. Leading technology trainer and consultant Anthony Sequeira shares 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 to succeed on the exam the first time. The study guide helps you master all the topics on the MCSA 70-740 exam, including: Windows Server installation in host and compute environments, including Nano Server Storage: configuring disks and volumes, implementing server storage, and data duplication Hyper-V implementation, including VM settings, storage, and networking Windows container deployment and management High availability: HA/DR options, failover clustering, Storage Spaces Direct, VM movement, and network load balancing Server environment maintenance and monitoring

MCSA 70-687 Cert Guide

Maximize your administration skills effectively and efficiently Key Features Implement cost-effective virtualization solutions for your organization with actionable recipes Explore the concepts of VMM with real-world use cases Use the latest features with VMM 2016 such as Cluster OS Rolling Upgrade, Guarded Fabric and Storage Spaces Direct Book Description Virtual Machine Manager (VMM) 2016 is part of the System Center suite to configure and manage datacenters and offers a unified management experience on-premises and Azure cloud. This book will be your best companion for day-to-day virtualization needs within your organization, as it takes you through a series of recipes to simplify and plan a highly scalable and available virtual infrastructure. You will learn the deployment tips, techniques, and solutions designed to show users how to improve VMM 2016 in a real-world scenario. The chapters are divided in a way that will allow you to implement the VMM 2016 and additional solutions required to effectively manage and monitor your fabrics and clouds. We will cover the most important new features in VMM 2016 across networking, storage, and compute, including brand new Guarded Fabric, Shielded VMs and Storage Spaces Direct. The recipes in the book provide step-by-step instructions giving you the simplest way to dive into VMM fabric concepts, private cloud, and integration with external solutions such as VMware, Operations Manager, and the Windows Azure Pack. By the end of this book, you will be armed with the knowledge you require to start designing and implementing virtual infrastructures in VMM 2016. What you will learn Plan and design a VMM architecture for real-world deployment Configure fabric resources, including compute, networking, and storage Create and manage Storage Spaces Direct clusters in VMM Configure Guarded Fabric with Shielded VMs Create and deploy virtual machine templates and multi-tier services Manage Hyper-V and VMware environments from VMM Enhance monitoring and management capabilities Upgrade to VMM 2016 from previous versions Who this book is for If you are a solutions architect, technical consultant, administrator, or any other virtualization enthusiast who needs to use Microsoft System Center Virtual Machine Manager in a real-world environment, then this is the book for you.

70-410 Installing & Configuring Windows Server 2012 R2

Get to grips with a new technology, understand what it is and what it can do for you, and then get to work with the most important features and tasks. The approach would be in a tutorial manner that will guide the users in an orderly manner toward virtualization. This book is conceived for system administrator and advanced PC enthusiasts who want to venture into the virtualization world. Although this book goes from scratch up, knowledge on server Operative Systems, LAN and networking has to be in place. Having a good background on server administration is desirable, including networking service.

Microsoft Azure Infrastructure Services for Architects

Deploy Microsoft Virtualization and VDI solutions using real-world Hyper-V configurations About This Book Get acquainted with the basics of Windows Server Hyper-V 2012 R2 and understand how to efficiently design a highly available

virtualization solution Assess your physical server environment and understand the fundamentals of server consolidation and sizing of Hyper-V hosts Design practical solutions for common design patterns with explanations of these design decisions Who This Book Is For This book is aimed at IT admins, consultants, and architects alike who wish to deploy, manage, and maintain Hyper-V solutions in organizations of various sizes. Readers are expected to have a working knowledge of managing Windows Servers and a fair understanding of networking and storage concepts. What You Will Learn Set up independent and highly available clustered Hyper-V hosts via GUI and PowerShell Acquire knowledge about Generation 1 and 2 Virtual Machines, their creation and management, and also look at the VM Conversion process Understand NIC Teaming, Extensible Virtual Switch, and other networking advancements Gain insight into virtual machine storage changes and its follow-up benefits Discover backup and recovery patterns for Hyper-V Familiarize yourself with the essentials of Hyper-V Replica Leverage the benefits of Microsoft VDI In Detail The IT community has already experienced the benefits of server virtualization. However, they were limited to one option primarily until Microsoft released its flagship Hypervisor platform. Windows Server Hyper-V 2012 and R2 along with Hyper-V Server 2012 and R2 present a cost effective yet robust virtualization solution to enterprises who wish to consolidate their physical server workloads or migrate their pre-existing VMware workloads to Hyper-V. Hyper-V has proven to be a stable and an economical virtualization solution and with its high availability, live migration, and new network virtualization and storage enhancement features, enterprises will never feel the need to consider another alternative. This book is a practical, example-oriented tutorial that will guide you through the basics and architecture of the Hyper-V platform and thereafter help you understand how to build your Virtualization infrastructure from the ground up. The book then goes on to focus on scalability and high availability aspects and trains you in setting up highly available Hyper-V clusters and the live migration of virtual machines. You will also learn about the advancements in virtual networking and storage in Windows Server 2012. After the implementation guidance, the book then advises you on how to set up backup and recovery and how to prepare a disaster recovery plan via Hyper-V Replica. The book concludes with a good insight into Microsoft VDI implementation guidance. Style and approach This is a handy and easy-to-follow guide that describes virtualization concepts and the Hyper-V design approach. Each topic is explained sequentially and is enhanced with real-world scenarios, practical examples, screenshots, and step-by-step explanations to help readers understand clearly.

MCSA Guide to Installation, Storage, and Compute with Microsoft Windows Server 2016, Exam 70-740

Securing virtual environments for VMware, Citrix, and Microsoft hypervisors Virtualization changes the playing field when it comes to security. There are new attack vectors, new operational patterns and complexity, and changes in IT architecture and deployment life cycles. What's more, the technologies, best practices, and strategies used for securing physical environments do not provide sufficient protection for virtual environments. This book includes step-by-step configurations for the security controls that come with the three leading hypervisor--VMware vSphere and ESXi, Microsoft Hyper-V on Windows Server 2008, and Citrix XenServer. Includes strategy for securely implementing network policies

and integrating virtual networks into the existing physical infrastructure Discusses vSphere and Hyper-V native virtual switches as well as the Cisco Nexus 1000v and Open vSwitch switches Offers effective practices for securing virtual machines without creating additional operational overhead for administrators Contains methods for integrating virtualization into existing workflows and creating new policies and processes for change and configuration management so that virtualization can help make these critical operations processes more effective This must-have resource offers tips and tricks for improving disaster recovery and business continuity, security-specific scripts, and examples of how Virtual Desktop Infrastructure benefits security.

MCITP: Windows Server 2008 Enterprise Administrator Study Guide

Hyper-V Security is intended for administrators with a solid working knowledge of Hyper-V Server, Windows Server, and Active Directory. An administrator with a functional environment will be able to use the knowledge and examples present in this book to enhance security.

Windows Server 2008 Hyper-V

In-depth and comprehensive, this official RESOURCE KIT delivers the information you need to plan, implement, and manage a virtualized enterprise infrastructure. Covers R2 features. You get authoritative technical guidance from those who know the technology best—leading industry experts and the Windows Virtualization Team—along with sample scripts, job aids, and other essential resources. Get expert advice on how to: Manage the project visioning phase—scope, risks, budget Design Hyper-V server infrastructure and components Apply the steps and tools that streamline installation Configure single or multiple Hyper-V servers Plan a server workload consolidation strategy Use console-based tools to manage central and remote operations Minimize downtime when migrating from Microsoft Virtual Server to Hyper-V Apply security best practices Implement business continuity and recovery plans Monitor health and tune performance CD features: Library of Windows PowerShell scripts for automating Hyper-V management tasks Understanding Microsoft Virtualization Solutions From Desktop to Datacenter eBook Job aids and links to useful virtualization-related resources and tools Fully searchable eBook of this guide A Note Regarding the CD or DVD For customers who purchase an ebook version of this title, instructions for downloading the CD files can be found in the ebook.

Pro Microsoft Hyper-V 2019

Deploy Microsoft Virtualization and VDI solutions using Real-World Hyper-V Configurations The latest server virtualization platform (Hypervisor) release from Microsoft, Windows Server Hyper-V, is not only economical and user-friendly but also a robust and resilient solution. Hyper-V is now one of the top contenders in the server virtualization area, and is already leading in some markets. This book is a handy and easy-to-follow guide that describes the concepts of virtualization and the Hyper-V design approach. Each topic is explained sequentially to help you build

an understanding of Hyper-V and thereafter deploy a fully functional and robust solution, alongside a disaster recovery failover plan. I'm looking forward to all of you becoming Hyper-V experts! This book is intended for a wide audience. It is meant for IT admins and consultants who are either planning to adopt virtualization or migrate to Hyper-V as a suitable hypervisor platform. It is also for architects who wish to gain greater insights into the intricacies of the low-cost yet robust and reliable solution of Hyper-V. The book will train you on virtualization and Hyper-V. However, a working knowledge and experience in managing Windows Servers and a fair understanding of networking and storage concepts is expected here. Code words in text, database table names, folder names, filenames, file extensions, pathnames, dummy URLs, user input, and Twitter handles are shown as follows: "To keep things simple, we will refer to the location as C:\ClusterStorage."

Hyper-V Security

The only book to take an in-depth look at deploying Hyper-V Now in its second generation, the popular Hyper-V boasts technical advances that create even more dynamic systems than ever before. This unique resource serves an authoritative guide to deploying Windows Server 2008 R2 Hyper-V comprehensively. Step-by-step instructions demonstrate how to design a Hyper-V deployment, build a Hyper-V host environment, and design a management system with System Center Virtual Machine Manager 2008 R2. Features real-world examples that show you how to design a Hyper-V deployment, build a Hyper-V host environment, and design a management system Walks you through incorporating System Center Operations Manager 2008 R2, System Center Data Protection Manager 2010, and System Center Essentials 2010 Offers authoritative coverage of Hyper-V security, business continuity, and an array of VM roles, including domain controllers, Exchange Server, SQL Server, and System Center This in-depth guide is the ultimate resource for system administrators, engineers, and architects, and IT consultants deploying Hyper-V.

Mastering Windows Server 2016

This book is written in a friendly and practical style with numerous tutorials centred on common as well as atypical Hyper-V cluster designs. This book also features a sample cluster design throughout to help you learn how to design a Hyper-V in a real-world scenario. Microsoft Hyper-V Cluster Design is perfect for the systems administrator who has a good understanding of Windows Server in an Active Directory domain and is ready to expand into a highly available virtualized environment. It only expects that you will be familiar with basic hypervisor terminology.

Windows Server 2008 Hyper-V Unleashed

"Windows Server 2012 Hyper-V Cookbook" is a practical cookbook packed with recipes showing and explaining all the features and components of Hyper-V. You'll learn from best practices, tips and tricks and examples of how to automate daily and common tasks. If you are an administrator who wants to master Microsoft

Server Virtualization with Windows Server 2012 Hyper-V, then this book is for you. You should be comfortable with virtualization concepts and practices, and knowledge of previous versions of Windows Server would be an advantage.

Designing Hyper-V Solutions

Master Windows Server installation and configuration with hands-on practice and interactive study aids for the MCSA: Windows Server 2012 R2 exam 70-410 MCSA: Windows Server 2012 R2 Installation and Configuration Study Guide: Exam 70-410 provides complete preparation for exam 70-410: Installing and Configuring Windows Server 2012 R2. With comprehensive coverage of all exam topics and plenty of hands-on practice, this self-paced guide is the ideal resource for those preparing for the MCSA on Windows Server 2012 R2. Real-world scenarios demonstrate how the lessons are applied in everyday settings. Readers also get access to the interactive practice tests, electronic flashcards, and video demonstration of the more difficult tasks, which help readers fully understand the scope of principles at work. Exam 70-410 is one of three exams MCSA candidates must take to obtain their MCSA: Windows Server 2012 R2. The test is aligned with the 2012 update to the Windows server operating system, and so is the book. This study guide contains everything users need to know for the exam, including the 2012 update's changes to Hyper-V and Active Directory. Avoid surprises on exam day, and master the material while learning to: Install and configure Windows Server 2012 R2 Configure Hyper-V and server roles and features Install and administer Active Directory Manage Group Policy Exam prep is about more than passing the test—it helps you gain hands-on experience performing more complex operations, giving you the confidence you need to successfully apply what you've learned in a work environment. If you're looking to triumph over the MCSA exam 70-410, MCSA: Windows Server 2012 R2 Installation and Configuration Study Guide: Exam 70-410 provides the information and practice you need.

Windows Server 2008 Hyper-V Resource Kit

Book + Content Update Program This is the most comprehensive and realistic guide to Windows Server 2016 planning, design, prototyping, implementation, migration, administration, and support. Extensively updated, it contains unsurpassed independent and objective coverage of Windows Server 2016's key innovations, from the cloud and containers to security and mobility. Windows Server 2016 Unleashed reflects the authors' extraordinary experience implementing Windows Server 2016 in large-scale environments since its earliest alpha releases. Microsoft MVP Rand Morimoto and colleagues fully address all aspects of deploying and operating Windows Server 2016, including Active Directory, networking, application services, security, administration, business continuity, virtualization, optimization, and troubleshooting. You'll find up-to-the-minute coverage of new features ranging from Storage Spaces Direct to Cluster-Aware Updating, and Dynamic Access Control to Nano Server. Valuable for Windows pros at all levels, this book will be indispensable especially for intermediate-to-advanced level professionals seeking expert, in-depth solutions. Every chapter contains tips, tricks, best practices, and lessons learned from actual deployments—practical help for solving real problems. Detailed information on how to: Take full advantage of key Windows Server 2016 innovations Plan, prototype,

install, migrate to, and deploy Windows Server 2016 and Server Core Design a modern Windows Server Active Directory, from OUs and infrastructure to Federated Forests and Lightweight Directories Deliver reliable networking services: DNS, WINS, DNSSEC, DHCP, IPv, IPAM, and IIS Systematically harden server-level security Protect data in transit with PKI, certificates, rights management, and IPsec encryption Safely provide appropriate remote and mobile access for your users Efficiently administer, automate, maintain, and document Windows Server production environments Control Windows devices centrally with Group Policies and Policy Management Implement advanced fault tolerance, clustering, and other business continuity features Optimize, tune, and debug Windows Server, and plan for growth Leverage integrated application services, including SharePoint and Hyper-V In addition, this book is part of InformIT's Content Update Program, which provides content updates for major technology improvements! As significant updates are made to Windows Server 2016, sections of this book will be updated or new sections will be added to match the updates to the technologies. As updates become available, they will be delivered to you via a free Web Edition of this book, which can be accessed with any Internet connection. To learn more, visit informit.com/cup. How to access the Web Edition: Follow the instructions in the book to learn how to register your book to access the FREE Web Edition.

Mastering Hyper-V Deployment

A fast-paced, step-by-step guide to configuring Hyper-V Replica in various deployment scenarios. Hyper-V Replica Essentials is for Windows Server administrators who want to improve their system availability and speed up disaster recovery. You will need experience in Hyper-V deployment because Hyper-V Replica is built in the Hyper-V platform.

Windows Server 2016 Unleashed (includes Content Update Program)

Go-to guide for using Microsoft's updated Hyper-V as a virtualization solution Windows Server 2012 Hyper-V offers greater scalability, new components, and more options than ever before for large enterprises and small/medium businesses. Windows Server 2012 Hyper-V Installation and Configuration Guide is the place to start learning about this new cloud operating system. You'll get up to speed on the architecture, basic deployment and upgrading, creating virtual workloads, designing and implementing advanced network architectures, creating multitenant clouds, backup, disaster recovery, and more. The international team of expert authors offers deep technical detail, as well as hands-on exercises and plenty of real-world scenarios, so you thoroughly understand all features and how best to use them. Explains how to deploy, use, manage, and maintain the Windows Server 2012 Hyper-V virtualization solutions in large enterprises and small-to medium-businesses Provides deep technical detail and plenty of exercises showing you how to work with Hyper-V in real-world settings Shows you how to quickly configure Hyper-V from the GUI and use PowerShell to script and automate common tasks Covers deploying Hyper-V hosts, managing virtual machines, network fabrics, cloud computing, and using file servers Also explores virtual SAN storage, creating guest clusters, backup and disaster recovery, using

Hyper-V for Virtual Desktop Infrastructure (VDI), and other topics Help make your Hyper-V virtualization solution a success with Windows Server 2012 Hyper-V Installation and Configuration Guide.

MCSA Windows Server 2012 R2 Installation and Configuration Study Guide

Mastering Windows Server 2019

Unbeatable advice and expert tips for evaluating, designing, and deploying virtualization solutions If you're an IT professional, you know that virtualization is essential in today's computer infrastructures. This valuable reference is your key to all things Microsoft virtualization. Written by a Microsoft Most Valuable Professional (MVP), it breaks down all the various technologies, what they mean to your organization in terms of saving money and solving problems, and how to design and deploy various solutions effectively. You'll find invaluable tips and information on such topics as Hyper-V, the changes that Windows 8 brings, private cloud scenarios, and more. Written by well-known 11-time Microsoft MVP, Windows expert, and Microsoft insider, John Savill Provides practical advice and expert insights on understanding, evaluating, designing, and deploying virtualization solutions Keeps you up to date with how Windows 8 and Windows Server "8" affect your virtualization processes Covers virtualization in all its forms--machine, application, and user Explores the private cloud and public cloud and what they mean to your organization Focuses on Microsoft solutions such as Hyper-V, but also delves into Citrix, Quest software, AppSense, and other Microsoft partner solutions Discusses bringing your own device requirements through VDI and session virtualization and which one is right Features video demonstrations and walkthroughs of some processes Microsoft Virtualization Secrets is like having a built-in Microsoft expert on hand to help you avoid mistakes and save time!

Learning Hyper-V

MCSA 70-740 Cert Guide

Hyper-V is one of the top virtualization products, and this practical guide focuses on the essentials of Windows Server 2008 Hyper-V. Written by the Microsoft team behind the Hyper-V product, this book shows you how to perform key virtualization scenarios, such as server consolidation, software test and development, and a dynamic data center and demonstrates how Hyper-V can be used to reduce cost and eliminate the complexity of a server infrastructure by consolidating workloads to a small number of machines. In addition, the material addresses using DPM, and SCOM with VMM in order to maintain and manage Hyper-V environments.

MCSA 70-410 Cert Guide R2

This is the eBook version of the print title. Note that the eBook does not provide access to the practice test software that accompanies the print book. Learn,

prepare, and practice for MCSA 70-410 exam success with this Cert Guide from Pearson IT Certification, a leader in IT certification. Master MCSA 70-410 exam topics for Windows Server 2012 R2 installation and configuration Assess your knowledge with chapter-ending quizzes Review key concepts with exam preparation tasks MCSA 70-410 Cert Guide: Installing and Configuring Microsoft® Windows Server 2012R2 is a best-of-breed exam study guide. Best-selling authors and expert instructors Don Poulton and David Camardella 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 enable you to succeed on the exam the first time. The study guide helps you master all the topics on the MCSA 70-410 exam, including the following: Installing and configuring Windows Server 2012 Configuring Windows Server 2012 R2 local storage Configuring access to files and shares Configuring and monitoring print and document services Configuring remote management of servers Configuring Hyper-V server virtualization Creating and configuring virtual machine storage and virtual networks Configuring IPv4 and IPv6 addressing Configuring Dynamic Host Configuration Protocol (DHCP) Deploying and configuring Dynamic Host Configuration Protocol (DHCP) Deploying and configuring Domain Name System (DNS) Installing Active Directory domain controllers Creating and managing Active Directory user and computer accounts Creating and managing Active Directory Groups and Organizational Units (OUs) Creating and applying Group Policy Objects Configuring security policies, application restrictions, and Windows Firewall Don Poulton (A+, Network+, Security+, MCSA, MCSE) is an independent consultant who has worked with computers since the days of 80-column punch cards. He has consulted extensively with training providers, preparing study materials for Windows technologies. He has written or contributed to several Que titles, including Security+ Lab Manual; MCSA/MCSE 70-299 Exam Cram 2; MCTS 70-620 Exam Prep; and MCSA 70-687 Cert Guide: Configuring Microsoft Windows 8.1. David Camardella, an expert on deploying and administering Microsoft technologies, has served as technical reviewer on several previous Pearson Microsoft certification titles.

Instant Hyper-V Server Virtualization Starter

The IT pro's must-have guide to Windows Server 2016 Mastering Windows Server 2016 is a complete resource for IT professionals needing to get quickly up to date on the latest release. Designed to provide comprehensive information in the context of real-world usage, this book offers expert guidance through the new tools and features to help you get Windows Server 2016 up and running quickly. Straightforward discussion covers all aspects, including virtualization products, identity and access, automation, networking, security, storage and more, with clear explanations and immediately-applicable instruction. Find the answers you

need, and explore new solutions as Microsoft increases their focus on security, software-defined infrastructure, and the cloud; new capabilities including containers and Nano Server, Shielded VMs, Failover Clustering, PowerShell, and more give you plenty of tools to become more efficient, more effective, and more productive. Windows Server 2016 is the ideal server for Windows 10 clients, and is loaded with new features that IT professionals need to know. This book provides a comprehensive resource grounded in real-world application to help you get up to speed quickly. Master the latest features of Windows Server 2016 Apply new tools in real-world scenarios Explore new capabilities in security, networking, and the cloud Gain expert guidance on all aspect of Windows Server 2016 migration and management System administrators tasked with upgrading, migrating, or managing Windows Server 2016 need a one-stop resource to help them get the job done. Mastering Windows Server 2016 has the answers you need, the practicality you seek, and the latest information to get you up to speed quickly.

Windows Server 2019 Inside Out

Virtualization Security

Enhance and secure your datacenter with the newest Microsoft server platform Key Features Develop necessary skills to design and implement Microsoft Server 2019 in enterprise environment Provide support to your medium to large enterprise and leverage your experience in administering Microsoft Server 2019 Effectively administering Windows server 2019 with the help of practical examples Book Description Mastering Windows Server 2019 - Second Edition covers all of the essential information needed to implement and utilize this latest-and-greatest platform as the core of your data center computing needs. You will begin by installing and managing Windows Server 2019, and by clearing up common points of confusion surrounding the versions and licensing of this new product. Centralized management, monitoring, and configuration of servers is key to an efficient IT department, and you will discover multiple methods for quickly managing all of your servers from a single pane of glass. To this end, you will spend time inside Server Manager, PowerShell, and even the new Windows Admin Center, formerly known as Project Honolulu. Even though this book is focused on Windows Server 2019 LTSC, we will still discuss containers and Nano Server, which are more commonly related to the SAC channel of the server platform, for a well-rounded exposition of all aspects of using Windows Server in your environment. We also discuss the various remote access technologies available in this operating system, as well as guidelines for virtualizing your data center with Hyper-V. By the end of this book, you will have all the ammunition required to start planning for, implementing, and managing Windows. What you will learn Work with the updated Windows Server 2019 interface, including Server Core and Windows Admin Center Secure your network and data with new technologies in Windows Server 2019 Learn about containers and understand the appropriate situations to use Nano Server Discover new ways to integrate your data center with Microsoft Azure Harden your Windows Servers to help keep the bad guys out Virtualize your data center with Hyper-V Who this book is for If you are a System Administrator or an IT professional interested in designing and deploying Windows Server 2019 then this book is for you. Previous experience of Windows Server operating systems and

familiarity with networking concepts is required.

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