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**Windows Server 2012 Hyper V
Deploying The Hyper V
Enterprise Server
Virtualization Platform
Shah Zahir Hussain**

NOTE: This title is also available as a free eBook on the Microsoft Download Center. It is offered for sale in print format as a convenience. Get a head start evaluating Windows Server 2012 R2 - with technical

insights from a Microsoft MVP and members of the Windows Server product team. Based on final Windows Server 2012 R2 release-to-manufacturing (RTM) software, this guide introduces new features and capabilities, with scenario-based advice on how the platform can meet the needs of your business. Get the high-level overview you need to begin preparing your deployment now. Coverage includes: Server virtualization and cloud solutions Availability and scalability Provisioning and storage management Security features, access, and data protection Infrastructure options Server management and

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automation

Fully updated for Windows Server 2012 R2! Designed to help enterprise administrators develop real-world, job-role-specific skills - this Training Guide focuses on deploying and managing core infrastructure services in Windows Server 2012 R2. Build hands-on expertise through a series of lessons, exercises, and suggested practices - and help maximize your performance on the job. This Microsoft Training Guide: Provides in-depth, hands-on training you take at your own pace Focuses on job-role-specific expertise for deploying and managing core infrastructure services Creates a

foundation of skills which, along with on-the-job experience, can be measured by Microsoft Certification exams such as 70-410 Topics include: Preparing for Windows Server 2012 R2 Deploying servers Server remote management New Windows PowerShell capabilities Deploying domain controllers Active Directory administration Network administration Advanced networking capabilities Check out the new Hyper-V, find new and easier ways to remotely connect back into the office, or learn all about Storage Spaces—these are just a few of the features in Windows Server 2012 R2 that are

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**explained in this updated edition from Windows authority Mark Minasi and a team of Windows Server experts led by Kevin Greene. This book gets you up to speed on all of the new features and functions of Windows Server, and includes real-world scenarios to put them in perspective. If you're a system administrator upgrading to, migrating to, or managing Windows Server 2012 R2, find what you need to do the job in this complete resource. Learn all about:
Installing or upgrading to and managing Windows Server 2012 R2 Understanding Microsoft NIC teams 2012 and PowerShell Setting up via GUI or updated**

Server Core 2012 Migrating, merging, and modifying your Active Directory Managing address spaces with IPAM Understanding new shared storage, storage spaces, and better tools Controlling access to file shares—a new and improved approach Using and administering Remote Desktop, Virtual Desktop, and Hyper-V®

Build a seamless, flexible, full-service datacenter solution Microsoft Windows Server 2016 Hyper-V is the IT administrator's guide to this rising datacenter solution. Hyper-V has already surpassed VMWare in datacenter management, identity service for multiple

devices, and more; this book shows you how to harness the power of this hypervisor to simplify the infrastructure, reduce costs, improve productivity, and better manage system resources. From a tour of the technology through architecture, deployment, and integration of System Center, Microsoft Azure, and Microsoft Azure Stack, the discussion illustrates the skills you need to create a complete solution for optimum enterprise management. Coverage includes Windows Azure capabilities for virtual machines, managing a hybrid cloud, IaaS, storage capabilities, PowerShell, and more, with practical real-world

guidance from a leading authority in the field. Hyper-V has recently undergone improvements in scalability and features that have positioned it as an ideal solution in the Small/Medium Business and Enterprise markets. This book shows you how to exploit these new capabilities to build a robust data solution for your organization. Discover the capabilities of Microsoft Hyper-V Architect a Hyper-V datacenter solution Plan and manage a deployment or migration Integrate complementary technologies for full scalability Data is everywhere—on desktops, laptops, phones, and multiple operating systems, accessed through email, text

messages, web searches, online services, and more. All of this data must be stored, accessible, updated, backed up, secured, managed, sorted, and analyzed—sometimes instantly. Hyper-V is the rising star in the virtualization space, and Microsoft Windows Server 2016 Hyper-V shows you how to turn greater capabilities into better datacenter solutions. Deploying the Hyper-V Enterprise Server Virtualization Platform Windows Server 2012 Automation with Powershell Cookbook Training Guide Configuring Advanced Windows

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Server 2012 R2 Services (MCSA)

Windows Server 2008 Hyper-V

Mastering Windows Server 2012 R2

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

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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.

Fully updated for Windows Server 2012 R2! Prepare for

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Microsoft Exam 70-410 - and help demonstrate your real-world mastery of implementing and configuring core services in Windows Server 2012 R2. Designed for experienced IT professionals ready to advance their status, Exam Ref focuses on the critical thinking and decision making acumen needed for success at the MCSA level. Focus on the expertise measured by these objectives: Install and configure servers Configure server roles and features Configure Hyper-V Deploy and configure core network services Install and administer Active Directory Create and manage Group Policy This Microsoft Exam Ref: Organizes its coverage by exam objectives. Features strategic, what-if scenarios to challenge you.

Implement a Hyper-V virtualization solution Microsoft Virtualization with Hyper-V shows you how to deploy Microsoft

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next-generation hypervisor-based server virtualization technology in a corporate environment. You'll get step-by-step guidelines for getting Hyper-V up and running, followed by best practices for building a larger, fault-tolerant solution using System Center Virtual Machine Manager 2008. This hands-on guide explains how to migrate physical systems to the virtual environment; use System Center Operations Manager; and secure, back up, and restore your Hyper-V solution. Plan and implement a Hyper-V installation

Configure Hyper-V components
Install and configure System Center Virtual Machine Manager 2008
Create and manage virtual machines
Back up and restore virtual machines
Monitor, back up, and restore the virtual solution
Secure your Hyper-V environment
Understand the virtual desktop infrastructure
Use third-party virtualization tools for Hyper-V

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Microsoft Server ailesinin en yeni üyesi olan Windows Server 2012 R2, eski sürümlerine göre daha görsel arayüzlü ve Windows 8 gibi yeni bir tasarımla yapılmış, altyapının üzerinde bir kullanım kolaylığı sağlamaktadır. Değişen arayüz ile birlikte performans ve daha stabil çalışmaya hedefleyen bu yeni nesil Server'ın tüm teknik özelliklerini ve yeniliklerini bu kitapta bulabileceksiniz. Microsoft Server 2012 R2 ile ilgili tüm yenilikler birebir örnekler ve açıklamalar doğrultusunda incelenerek öğretici ve öğretici bir formda kitap haline getirilmiştir. Böylece kitabın okuyuculara sağlayacağı en büyük katkı; yapılan işlemin ne amaçla ve neden yapıldığını bilerek yapılması, Windows Server 2012 ile beraber değişen arayüzün, sistem yöneticilerine zorluk çıkarmaması ve profesyonel iş hayatlarında rehber bir kitap olabilmesidir. Bu kitap; IT sektöründe çalışan, Microsoft

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Server ailesinin yeni üyesi hakkında bilgi edinmek isteyen herkese hitap etmektedir. • Windows Server 2012 Yenilikleri • Server 2012 R2 Failover Cluster • Disk Yapıları • Dosya Biçimleri • Active Directory Kurulumu • Active Directory Users and Groups • Active Directory Organizational Unit • Active Directory RecycleBin • NTFS ve File Server • NTFS izinleri • File Server Kurulumu • File Server Resource Manager • Distributed File System • Print Server Kurulum Amaçları • Fax Server • R2 ile Birlikte Gelen WDS Yenilikleri • Windows Server Update Services • Remote Desktop Services • Dynamic Host Configuration Protocol • Server 2012 R2 DHCP Failover Cluster • Domain Name System • DNS Zone Çeşitleri • DNS Server Kurulumu • DNS Manager • DNS Zone Oluşturma • DNS Zone Transfer • R2 DNS Yenilikleri • Windows Internet Name Service

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- IPAM Kurulumu ve R2 Yenilikleri • Internet Information Services 8.0 • IIS 8.0 Kurulumu • IIS Manager • Web Sitesi Yay?nlama • File Transfer Protocol • Virtual Private Network • VPN Server Kurulumu • HYPER-V • Virtual PC Kurulumu • Group Policy • Group Policy Management • R2 Üzerindeki Group Policy Yenilikleri • Active Directory Site and Services • Active Directory Master Roller • Windows Server Backup • Active Directory Backup & Restore • File Backup & Restore • PowerShell 5.0 • ve Daha Fazlas?

MCSA Windows Server 2012 R2 Installation and Configuration Study Guide

Second Edition

Hyper-V Network Virtualization Cookbook

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Windows Server 2012 Hyper-V Installation and Configuration
Guide

This book will help you understand the capabilities of Microsoft Hyper-V, architect a Hyper-V solution for your datacenter, plan a deployment/migration, and then manage it all using native tools and System Center. Coverage also includes hybrid cloud scenarios specifically with Windows Azure to complete the full virtualization piece of providing data both on premise and off premise. In addition, you will explore the Windows Azure

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capabilities for virtual machines and managing a hybrid cloud, including Windows Azure's Internet as a Service (IaaS) and storage capabilities, how seamless management is possible with PowerShell and System Center, plus how Azure Storage can play a part in a company's complete solution. Key topics covered include: virtualization fundamentals, network virtualization, storage configuration, Hyper-V management and maintenance, failover clustering and migration, Hyper-V replica and cloud

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orchestration, private cloud implementation, Azure IaaS, Azure storage, managing with PowerShell, Hyper-V decoding, and Windows Server 2012 R2 integration.

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.

If you are a virtualization architect, engineer, or administrator who wants to leverage Hyper-V to create virtual networks (virtual data centers), this is

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the book for you. Prior knowledge of Hyper-V or a similar solution and a good understanding of the end goals of creating a virtual network is required.

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

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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

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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

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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!

Virtualizing Desktops and Apps with
Windows Server 2012 R2 Inside Out
Microsoft Virtualization with Hyper-V
Training Guide
Mastering Hyper-V 2012 R2 with System
Center and Windows Azure
Microsoft Hyper-V Cluster Design

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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.

Fully updated for Windows Server 2012 R2! Prepare for Microsoft Exam 70-412—and help demonstrate your real-

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world mastery of advanced configuration tasks for Windows Server infrastructure. Designed for experienced IT professionals ready to advance their status, Exam Ref focuses on the critical-thinking and decision-making acumen needed for success at the MCSA or MCSE level. Focus on the expertise measured by these objectives: Configure and manage high availability Configure file and storage solutions Implement business continuity and disaster recovery Configure network services Configure the Active Directory infrastructure Configure access and information protection solutions This Microsoft Exam Ref: Organizes its coverage by objectives for Exam 70-412. Features

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strategic, what-if scenarios to challenge candidates. Designed for IT professionals who have real-world experience configuring Windows Server 2012 R2 services in an enterprise environment. Note: Exam 70-412 counts as credit toward MCSA and MCSE certifications

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

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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

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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

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provides the information and practice you need.

This book is great for administrators who are new to automating Hyper-V administration tasks using PowerShell. If you are familiar with the PowerShell command line and have some experience with the Windows Server, this book is perfect for you.

Windows Server 2016 Unleashed (includes Content Update Program)

Microsoft Virtualization Secrets

Exam 70-410

Practical Guidance and Hands-On Labs

Microsoft Hyper-V PowerShell Automation

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.

This is a Packt Cookbook, full with over 75 recipes for VMM users to carry out vital tasks quickly and easily. This book is written for solutions architects, technical consultants, administrators, and any other virtualization lover who needs to use Microsoft System Center Virtual Machine Manager in a real world environment.

Conquer Windows Server 2012 R2

virtualization--from the inside out! Dive into Windows Server 2012 R2 virtualization--and really put your systems expertise to work. Focusing on both virtual desktop infrastructure and virtualized applications, this supremely organized reference packs hundreds of timesaving solutions, tips, and workarounds. Discover how the experts tackle Windows virtualization--and challenge yourself to new levels of mastery. Use virtualization to prevent business disruption, help improve security,

***simplify upgrades, and support mobile users
Plan and deploy User State Virtualization for a
consistent experience across locations and
devices Define users, applications, and
scenarios for any virtualization project Compare
and deploy both session-based and virtual
machine-based (VM-based) desktops Configure
Client Hyper-V and work with VMs in a Client
Hyper-V environment Install, design, configure,
and administer Microsoft Application
Virtualization (App-V) infrastructure and clients
Sequence applications for efficient and reliable***

deployment Help secure remote access to virtual desktops with Remote Desktop Gateway (RD Gateway) Plan and implement pooled and personal desktops Monitor virtualized apps and desktops for health and performance Learn the foundation of cloud computing and how to build your own Microsoft private cloud Written by a team of expert authors who are MVPs and leaders in their respective fields, this one-of-a-kind book is an essential resource for IT administrators who are responsible for implementing and managing a cloud

infrastructure. You'll quickly learn how cloud computing offers significant cost savings while also providing new levels of speed and agility. Serving as a how-to guide, Microsoft Private Cloud Computing walks you through building a secure, internal cloud and delivering it as a service to your company using Microsoft Windows Server Hyper-V and Microsoft System Center Virtual Machine Manager 2012. Walks you through the entire process: understanding cloud computing, understanding the Microsoft concept of a private cloud, deploying a private cloud

fabric, deploying services, and building a private cloud, as well as integrating it with Microsoft's public cloud to create a cross-premises or public cloud Discusses fabric management with System Center Virtual Machine Manager (VMM) 2012 Examines how to provide network and storage with VMM 2012 Looks at the VMM library configuration Discusses private cloud and cloud service management with Microsoft App Controller Microsoft Private Cloud Computing is a must-have comprehensive resource that covers all aspects of implementing a private

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cloud.

***System Center 2012 R2 Virtual Machine Manager
Cookbook***

***Windows Server 2012 Hyper-V
Optimizing and Troubleshooting Hyper-V
Storage***

***Exam Ref 70-412 Configuring Advanced
Windows Server 2012 R2 Services (MCSA)
Configuring Advanced Windows Server 2012 R2
Services***

*Save time and resources by getting to know
the best practices and intelligence from*

industry experts About This Book* This book helps you gain a fresh perspective through a recipe-based approach on the new Microsoft Server 2016 Hyper-V* Over 80 recipes to help you master the administrative tasks of Hyper-V and get to grips with advanced solutions and techniques for virtualization* These hands-on advanced recipes will help you deploy, maintain, and upgrade Hyper-V virtual machines Who This Book Is For This book is for Hyper-V administrators who are looking to take advantage of all exciting new

*features that Microsoft Server 2016 Hyper-V has to offer. What you will learn**
Install and manage Hyper-V in Full, Server Core, and Nano Server Get to know how to migrate and upgrade physical and virtual machines* Configure disks, network, memory, security, and auditing settings for virtual machines* Take a deep dive into high availability and disaster recovery* Save time and money by getting to grips with PowerShell automation* Understand the new features around network and nested virtualization, distributed*

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storage QoS, Hyper-V Replica, and much more Gain a full view of your virtual machines and host servers through monitoring, reporting, and troubleshooting tips* Take advantage of a bonus appendix that explains Hyper-V and backup architecture and the difference between versions of Hyper-V In Detail Hyper-V is a Windows-based, very cost-effective virtualization solution with easy-to-use and well-known administrative consoles. You will master Hyper-V deployment, migration, and management by learning tips, tricks,*

and best practices, especially when it comes to advanced-level tasks. You will learn how to quickly deploy and automate multiple VMs, and support Hyper-V clusters through different installation methods. You will learn the concepts efficiently with the help of up-to-date real-world examples and improve the scalability and efficiency of large-scale VM deployments with Nano Server. By the end of this book, you will be an ace Windows Server 2016 Hyper-V with the skills needed to administer and manage it effectively and

survive in the brave new world of mobile-first, cloud-first. Further, take advantage of bonus appendix explaining Hyper-V and backup architecture and the difference between versions.

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

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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

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experienced system administrator looking to build or expand your knowledge of Windows Server, this book has you covered. Discusses how to configure and manage Microsoft Server 2012's expanded capabilities, covering data management, user permissions, networking tools, and data integrity.

Prepare for Microsoft Exam 70-740—and help demonstrate your real-world mastery of Windows Server 2016 installation, storage, and compute features and capabilities. Designed for experienced IT professionals

ready to advance their status, Exam Ref focuses on the critical-thinking and decision-making acumen needed for success at the MCSA level. Focus on the expertise measured by these objectives:

- Install Windows Servers in host and compute environments*
- Implement storage solutions*
- Implement Hyper-V*
- Implement Windows containers*
- Implement high availability*
- Maintain and monitor server environments*

This Microsoft Exam Ref:

- Organizes its coverage by exam objectives*
- Features strategic, what-if scenarios to challenge*

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you • Assumes you have experience working with Windows Server in an enterprise environment; are familiar with core networking infrastructure, topologies, architectures, and protocols; and have experience with Windows clients and virtualization About the Exam Exam 70-740 focuses on the skills and knowledge necessary to implement and configure storage and compute features and functionality in Windows Server 2016. About Microsoft Certification Passing this exam earns you credit toward a Microsoft

Certified Solutions Associate (MCSA) certification that demonstrates your mastery of core Windows Server 2016 skills for reducing IT costs and delivering more business value. Exam 70-741 (Networking with Windows Server 2016) and Exam 70-742 (Identity with Windows Server 2016) are also required for MCSA: Windows Server 2016 certification. See full details at: microsoft.com/learning

Installing and Configuring Windows Server 2012 R2

Designing Hyper-V Solutions

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WINDOWS SERVER 2012 R2

**Windows Server 2008 Hyper-V Resource Kit
Manage Your Datacenter with Hyper-V,
Virtual PC, Virtual Server, and
Application Virtualization**

Fully updated for Windows Server 2012 R2!
Designed to help enterprise administrators
develop real-world, job-role-specific skills - this
Training Guide focuses on configuration of
advanced services in Windows Server 2012 R2.
Build hands-on expertise through a series of
lessons, exercises, and suggested practices - and
help maximize your performance on the job. This

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Microsoft Training Guide: Focuses on job-role-specific expertise for advanced configuration tasks Fully updated for Windows Server 2012 R2, including new practices Provides in-depth, hands-on training you take at your own pace Creates a foundation of skills which, along with on-the-job experience, can be measured by Microsoft Certification exams such as 70-412 Topics include: Advanced Active Directory Infrastructure Active Directory Sites and Replication Advanced DHCP and DNS Active Directory Certificate Services Backup and Recovery Advanced File Services and Storage High Availability Site

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Resilience Dynamic Access Control and Active Directory Rights Management Services Active Directory Federation Services

This book is a step-by-step guide packed with recipes that cover architecture design and planning. The book is also full of deployment tips, techniques, and solutions. 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. We assume that you have previous experience with Windows 2012 R2 and

Read PDF Windows Server 2012 Hyper V Deploying The Hyper V Enterprise Server Virtualization Platform Shah Zahir Hussain Hyper-V.

This book is intended to provide you with an overview of the new features and enhancements introduced in Windows Server 2012 R2. The intended audience for this book is IT pros who deploy, manage, and maintain Windows Server workloads in data center, private cloud, and hosting provider environments. We assume that you are at least somewhat familiar with the features and capabilities of the previous platform Windows Server, but it is not strictly necessary. Managers and Windows Server users may find this book a useful support in their work. The most

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Important content is as follows: News of the replication DFS and de-duplication across Windows Server 2012 R2 News in active directory in Windows Server 12 R2 News in certificate services, bitlocker and authenticated wired access in Windows Server 2012 R2 News in DHCP and DNS in Windows Server 2012 R2 News in failover clustering in Windows Server 12 R2 News file services and storage and resource management in Windows Server 2012 R2 News of the resource manager in Windows Server 2012 R2 file server Hyper V roll in Windows Server 2012 Virtual machine generation Virtual

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machine automatic activation Hyper-V networks.
Features new and modified New features of hyper-
V in Windows Server 2012 R2 virtual switch
Developments of networks in Windows Server
2012 R2 Technologies new and improved
networks Windows Server 2012 R2 What's new
in IP network management (IPAM IN) Windows
Server 2012 R2 Features new of remote access
in Windows Server 2012 R2 Adjustment scale on
side of Windows Server 2012 R2 virtual
reception News in printing and document services
in Windows Server 2012 R2 What's new in
security and protection in Windows Server 2012

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R2 Security in Windows Server 20012 R2

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

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pragmatic troubleshooting and optimization
guidance from the field

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

Mastering Windows Server 2016 Hyper-V

Microsoft Private Cloud Computing

Windows Server 2012 Hyper-V Cookbook

Microsoft System Center Virtual Machine Manager
2012 Cookbook

**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.**

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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

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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

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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. 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.

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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

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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.

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This books 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.

Microsoft System Center Deploying Hyper-V with
Software-Defined Storage & Networking
Windows Server 2016 Hyper-V Cookbook - Second
Edition

Exam Ref 70-410 Installing and Configuring Windows
Server 2012 R2 (MCSA)

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Pro Microsoft Hyper-V 2019

Introducing Windows Server 2012 R2

Cookbook with recipes based on real life examples. This book is written to assist the daily tasks for systems administrators, engineers, and architects working with Windows Server 2012.

This scenario-focused title provides concise technical guidance and insights for troubleshooting and optimizing storage 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

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practices for Hyper-V storage optimization. Focused guide extends your knowledge and capabilities with Hyper-V storage in Windows Server 2012 Shares hands-on insights from a team of Microsoft virtualization experts Provides pragmatic troubleshooting and optimization guidance from the field

"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

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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.

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

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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.

Windows Server 2012 R2. New Features and Enhancements

Windows Server 2012: Up and Running
Exam Ref 70-740 Installation, Storage and Compute with Windows Server 2016

Insiders Guide to Microsoft's Hypervisor

Optimizing and Troubleshooting Hyper-V Networking
*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

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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

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examples, screenshots, and step-by-step explanations to help readers understand clearly.