

Windows Server 2012 R2: Private Cloud Storage and Virtualization

Understanding Storage Architecture

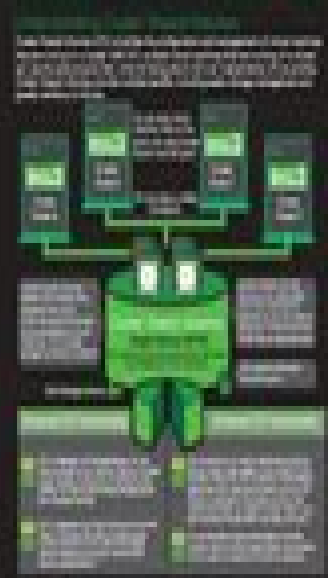
- JBOD**
Each drive is treated as a separate entity. Data is not striped or mirrored across drives. This is the simplest and least expensive configuration, but it offers no redundancy or performance benefits.
- RAID 0**
Data is striped across two or more drives. This configuration offers the highest performance but no redundancy. If one drive fails, all data is lost.
- RAID 1**
Data is mirrored across two drives. This configuration offers redundancy but lower performance than RAID 0.
- RAID 5**
Data is striped across three or more drives, with one drive used for parity. This configuration offers a balance of performance and redundancy.
- RAID 6**
Data is striped across four or more drives, with two drives used for parity. This configuration offers high redundancy and performance.
- RAID 10**
Data is mirrored and striped across four or more drives. This configuration offers the highest performance and redundancy.



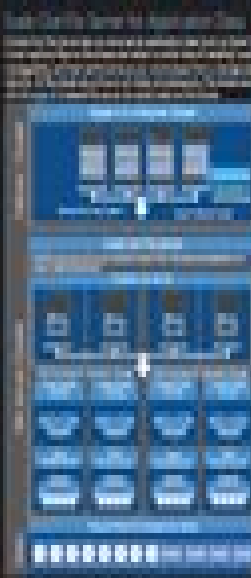
Virtual Hard Disks



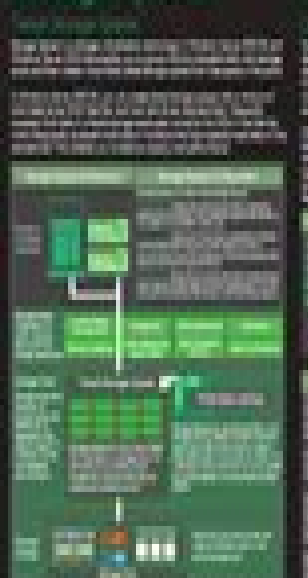
Cluster Shared Volumes



Scale-Out File Server and SMB



Storage Spaces



Deduplication



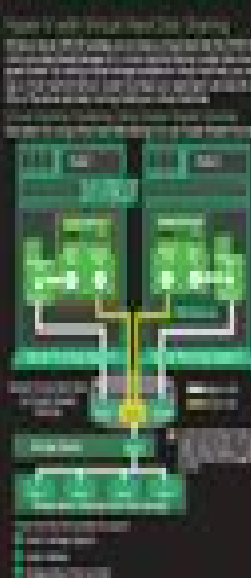
Hyper-V and Failover Clustering



Virtual Hard Disk Sharing



Virtual Hard Disk Sharing



Virtual Hard Disk Sharing



Windows Server 2012 R2 Virtualization Best Practices

**Adam Jorgensen, Bradley Ball, Steven
Wort, Ross LoForte, Brian Knight**



Windows Server 2012 R2 Virtualization Best Practices:

Security Strategies in Windows Platforms and Applications Michael G. Solomon, 2013-07-26 This revised and updated second edition focuses on new risks threats and vulnerabilities associated with the Microsoft Windows operating system Particular emphasis is placed on Windows XP Vista and 7 on the desktop and Windows Server 2003 and 2008 versions It highlights how to use tools and techniques to decrease risks arising from vulnerabilities in Microsoft Windows operating systems and applications The book also includes a resource for readers desiring more information on Microsoft Windows OS hardening application security and incident management Topics covered include the Microsoft Windows Threat Landscape Microsoft Windows security features managing security in Microsoft Windows hardening Microsoft Windows operating systems and applications and security trends for Microsoft Windows computers Practical IPv6 for Windows Administrators Edward Horley, 2014-02-28 Practical IPv6 for Windows Administrators is a handy guide to implementing IPv6 in a Microsoft Windows environment This is the book you need if you are a Microsoft Windows Administrator confronted with IPv6 and in need of a quick resource to get up and going The book covers the current state of IPv6 and its support in Microsoft Windows It provides best practices and other guidance toward successful implementation This book is especially written with the goal of translating your current expertise in IPv4 into the new realm of IPv6 Special attention is given to dual stack configurations helping you to run IPv4 and IPv6 side by side and support both protocol versions during a transition period Practical IPv6 for Windows Administrators is also a fast reference you can look at to get something done quickly It covers IPv6 addressing management of IPv6 from Powershell Advanced Firewall configuration and use of IPv6 in Hyper V and virtual networking environments You ll find practical examples showing how IPv6 integrates with all the standard tools you use for IPv4 today tools like DNS and DHCP You ll also find insider knowledge on IPv6 that can help avert stumbling points on the road to deployment Provides a quick path from IPv4 expertise to IPv6 implementation Gives best practices specific to Windows on IPv6 and dual stack networks Is chock full of practical examples showing how to manage IPv6 on Windows *Learning Hyper-V* Vinícius R. Apolinário, 2015-05-30 This book focuses on readers starting their journey with Hyper V and assumes they have minimal or no knowledge of virtualization *Virtualizing Microsoft Business Critical Applications on VMware vSphere* Matt Liebowitz, Alex Fontana, 2014 Best practices guidance and tips for virtualizing Microsoft business critical applications on the VMware vSphere platform By virtualizing Microsoft s enterprise applications on vSphere you can drive down costs while migrating toward flexible low cost private cloud architectures This unique guidebook bridges the gap between the Microsoft and VMware worlds bringing together the deep knowledge cutting edge best practices and practical techniques you need to succeed Leading experts Matt Liebowitz and Alex Fontana present end to end coverage of virtualizing Windows Server 2012 AD domain controllers and failover clusters Exchange Server 2013 SQL Server 2012 and SharePoint Server 2013 They offer indispensable advice on sizing architecture performance availability

monitoring and metrics Throughout the authors share valuable tips tricks and insights from their own experiences For each Microsoft application they provide proof of concept sample configurations and clearly explain how new features impact virtualization You ll also find authoritative up to date guidance on licensing and other issues related to ensuring full support from both Microsoft and VMware Coverage includes Evaluating the benefits risks and challenges of virtualizing Microsoft business critical applications Identifying strategies for success associated with people processes and technology Reviewing VMware vSphere features most important to virtualizing business critical applications Taking advantage of new virtualization aware features built in to Windows Server 2012 domain controllers Designing and configuring vSphere High Availability vSphere HA clusters to run Windows enterprise applications Reflecting Exchange Server 2013 s new architecture to maximize its performance in virtualized environments Leveraging new SQL Server 2012 features to simplify the delivery of high availability on virtual servers Reducing SQL Server 2012 licensing costs through virtualization Planning designing and deploying virtualized SharePoint Server 2013 environments

Designing Hyper-V Solutions Saurabh Grover, 2015-08-07

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 **Microsoft Hyper-V PowerShell**

Automation Vinith Menon,2015-01-29 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 **Building Clouds with Windows Azure Pack** Amit Malik,2016-01-29 Bring the benefits of Azure Pack to your cloud service and discover the secrets of enterprise class solutions About This Book Build deploy and manage cloud solutions using combination of Windows Azure Pack System Center and Hyper V Impress your peers at work by learning to build applications that can leverage the cloud to meet the needs of your organization Get overall view about the functionalities of Azure Pack and understand how to build cloud fabric IaaS PaaS DBaaS offerings Who This Book Is For This book targets cloud and virtualization professionals willing to get hands on exposure to Windows Azure Pack It will help virtualization customers adopt cloud architecture and would also help existing cloud providers to understand the benefits of Azure Pack This book will also be of use to cloud professionals from other platforms such as VMware OpenStack to appreciate and evaluate Azure Pack What You Will Learn Learn about Windows Azure Pack architecture Get Cloud Fabric ready and then plan install and configure Windows Azure Pack solution Build VM clouds and IaaS offerings for private Cloud and service provider s Cloud solutions Learn about planning and deployment of three Cloud services models of WAP IaaS PaaS WebSites Service Bus DBaaS SQL MySQL Plan and manage Azure Pack plans subscriptions and add on s for tenants Experience the solution built from tenant or customer point of view Integrate Azure Pack with Service Management Automation SMA to automate your cloud Solution Extend your Azure Pack capabilities and integrate it with other vendors or solutions components such as VMware Cloud Cruiser etc In Detail Windows Azure Pack is an on premises cloud solution by Microsoft which can be leveraged by Organizations and Services providers for building an enterprise class cloud solution WAP provides consistent experience to Microsoft Azure along with capabilities such as multi tenancy high density self service automated WAP can be leveraged to provide both IaaS PaaS Offerings to internal and external customers In this book we will learn about planning and deployment of Cloud Fabric for Windows Azure Pack Azure Pack components VM Clouds and IaaS offerings PaaS Offering including WebSites Service Bus DBaaS offerings Automation with SMA and extending capabilities with third party products integration and tenant experience for all services Style and approach This book is a step by step

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CompTIA Server Study Guide Exam SK0 004 is your ticket to exam day confidence Hyper-V Architecture and Administration Richard Johnson, 2015-06-08 Hyper V Architecture and Administration Hyper V Architecture and Administration is an authoritative and comprehensive guide for professionals seeking deep technical mastery of Microsoft Hyper V virtualization The book meticulously traces the evolution and core principles of Hyper V positioning it in the context of today's fast paced virtualization landscape Readers are first grounded in essential virtualization concepts hypervisor types and the unique architectural role Hyper V plays in modern data centers including detailed explorations of security isolation mechanisms and Windows integration Expanding on foundational concepts the book delves into the sophisticated architecture underpinning Hyper V including partitioning models memory management device integration and high performance inter VM communication Extensive coverage is dedicated to real world administration system requirements secure host configuration advanced networking storage strategies and automation empowering administrators to plan deploy and optimize Hyper V environments at scale Advanced chapters unravel cutting edge topics such as shielded VMs role based administration secure boot disaster recovery and clustering for high availability Encompassing both on premises and hybrid cloud solutions the text leads readers through seamless integration scenarios with Azure advanced management using System Center and Azure Arc and key considerations for compliance and governance in hybrid deployments Whether you are

architecting enterprise grade infrastructures orchestrating VM lifecycles or optimizing for performance and security this book provides the depth clarity and practical insight needed to harness the full power of Hyper V in today s dynamic IT landscape

MC Microsoft Certified Azure Data Fundamentals Study Guide Jake Switzer,2022-04-14 The most authoritative and complete study guide for people beginning to work with data in the Azure cloud In MC Azure Data Fundamentals Study Guide Exam DP 900 expert Cloud Solution Architect Jake Switzer delivers a hands on blueprint to acing the DP 900 Azure data certification The book prepares you for the test and for a new career in Azure data analytics architecture science and more with a laser focus on the job roles and responsibilities of Azure data professionals You ll receive a foundational knowledge of core data concepts like relational and non relational data and transactional and analytical data workloads while diving deep into every competency covered on the DP 900 exam You ll also get Access to complimentary online study tools including hundreds of practice exam questions electronic flashcards and a searchable glossary Additional prep assistance with access to Sybex s superior interactive online learning environment and test bank Walkthroughs of skills and knowledge that are absolutely necessary for current and aspiring Azure data pros in introductory roles Perfect for anyone just beginning to work with data in the cloud MC Azure Data Fundamentals Study Guide Exam DP 900 is a can t miss resource for anyone prepping for the DP 900 exam or considering a new career working with Azure data

Windows Server 2012 Hyper-V Zahir Hussain Shah,2013-03-25 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

Mastering Hyper-V 2012 R2 with System Center and Windows Azure John Savill,2014-04-11 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 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 orchestration private cloud implementation Azure IaaS Azure storage managing with PowerShell Hyper V decoding and Windows Server 2012 R2 integration

Windows Server 2012 Hyper-V Cookbook Leandro Carvalho,2012-11-23 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

Virtualizing Microsoft Business Critical Applications on VMware vSphere Matt Liebowitz,Alexander Fontana,2013-07-30 Best practices guidance and tips for virtualizing Microsoft business critical applications on the VMware vSphere platform By virtualizing Microsoft s enterprise applications on vSphere you can drive down costs while migrating toward flexible low cost private cloud architectures This unique guidebook bridges the gap between the Microsoft and VMware worlds bringing together the deep knowledge cutting edge best practices and practical techniques you need to succeed Leading experts Matt Liebowitz and Alex Fontana present end to end coverage of virtualizing Windows Server 2012 AD domain controllers and failover clusters Exchange Server 2013 SQL Server 2012 and SharePoint Server 2013 They offer indispensable advice on sizing architecture performance availability monitoring and metrics Throughout the authors share valuable tips tricks and insights from their own experiences For each Microsoft application they provide proof of concept sample configurations and clearly explain how new features impact virtualization You ll also find authoritative up to date guidance on licensing and other issues related to ensuring full support from both Microsoft and VMware Coverage includes Evaluating the benefits risks and challenges of virtualizing Microsoft business critical applications Identifying strategies for success associated with people processes and technology Reviewing VMware vSphere features most important to virtualizing business critical applications Taking advantage of new virtualization aware features built in to Windows Server 2012 domain controllers Designing and configuring vSphere High Availability vSphere HA clusters to run Windows enterprise applications Reflecting Exchange Server 2013 s new architecture to maximize its performance in virtualized environments Leveraging new SQL Server 2012 features to simplify the delivery of high availability on virtual servers Reducing SQL Server 2012 licensing costs through virtualization Planning designing and deploying virtualized SharePoint Server 2013 environments

Windows Server 2012 Hyper-V Installation and Configuration Guide Aidan Finn,Patrick Lownds,Michel Luescher,Damian Flynn,2013-03-12 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 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

CompTIA Server+ Certification All-in-One Exam Guide (Exam SK0-004) Daniel Lachance, 2016-12-23 Complete coverage of every objective for the CompTIA Server exam Take the CompTIA Server exam with confidence using this highly effective self study guide CompTIA Server Certification All in One Exam Guide Exam SK0 004 offers complete coverage of every topic on the latest version of the exam You will get in depth explanations of the latest server types and components virtualization IPv4 and IPv6 networking cloud computing security troubleshooting and more The book and electronic content provide 350 accurate practice questions along with in depth answers explanations learning objectives and exam tips Coverage includes General concepts CompTIA Server essentials Server hardware Server operating systems Storage Network concepts Security Troubleshooting Performance optimization Electronic content includes Practice exam questions

Professional Microsoft SQL Server 2014 Administration Adam Jorgensen, Bradley Ball, Steven Wort, Ross LoForte, Brian Knight, 2014-09-09 Learn to take advantage of the opportunities offered by SQL Server 2014 Microsoft s SQL Server 2014 update means big changes for database administrators and you need to get up to speed quickly because your methods workflow and favorite techniques will be different from here on out The update s enhanced support of large scale enterprise databases and significant price advantage mean that SQL Server 2014 will become even more widely adopted across the industry The update includes new backup and recovery tools new AlwaysOn features and enhanced cloud capabilities In memory OLTP Buffer Pool Extensions for SSDs and a new Cardinality Estimator can improve functionality and smooth out the workflow but only if you understand their full capabilities

Professional Microsoft SQL Server 2014 is your comprehensive guide to working with the new environment Authors Adam Jorgensen Bradley Ball Ross LoForte Steven Wort and Brian Knight are the dream team of the SQL Server community and they put their expertise to work guiding you through the changes Improve oversight with better management and monitoring Protect your work with enhanced security features Upgrade performance tuning scaling replication and clustering Learn new options for backup and recovery *Professional Microsoft SQL Server 2014* includes a companion website with sample code and efficient automation utilities plus a host of tips tricks and workarounds that will make your job as a DBA or database architect much easier Stop getting frustrated with administrative issues and start taking control *Professional Microsoft SQL Server 2014* is your roadmap to mastering the update and creating solutions that work

Optimizing and Troubleshooting Hyper-V Networking Mitch Tulloch, Windows Server Team, 2013-07-15 This scenario focused title provides concise technical guidance and insights for troubleshooting and optimizing networking with Hyper V Written by

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