

Windows Server 2012 R2: Private Cloud Storage and Virtualization

Understanding Storage Architecture

Storage Architecture
The storage architecture of a server is the foundation of its data management capabilities. It defines how data is stored, accessed, and protected. Understanding the components and their interactions is crucial for designing a robust and scalable storage solution.

Storage Architecture Components
The storage architecture consists of several key components, including the operating system, storage controllers, storage devices, and the data itself. These components work together to ensure data integrity, availability, and performance.

Storage Architecture Benefits
A well-designed storage architecture offers numerous benefits, such as improved data security, enhanced performance, and simplified management. It also enables organizations to optimize their storage resources and reduce costs.



Virtual Hard Disks

Virtual Hard Disks
Virtual hard disks (VHDs) are a key component of virtualization, allowing multiple virtual machines (VMs) to run on a single physical host. Each VM has its own VHD, which acts as its primary storage. This architecture provides flexibility, scalability, and ease of management.

Virtual Hard Disk Advantages
VHDs offer several advantages over traditional physical hard drives. They are portable, can be easily backed up and restored, and can be dynamically resized. Additionally, they enable the use of storage optimization techniques like deduplication and compression.

Virtual Hard Disk Management
Managing VHDs involves monitoring their size, performance, and health. Tools like the Windows Server Resource Manager (WSRM) can help administrators manage VHDs effectively, ensuring optimal storage utilization and performance.



Cluster Shared Volumes

Cluster Shared Volumes
Cluster Shared Volumes (CSVs) are a feature of Windows Server 2012 R2 that allow multiple nodes in a failover cluster to access and manage the same storage volume simultaneously. This is useful for applications that require high availability and shared storage.

Cluster Shared Volume Benefits
CSVs provide several benefits, including increased storage utilization, simplified management, and improved disaster recovery. They allow for the consolidation of storage resources and the creation of a single point of access for multiple nodes.

Cluster Shared Volume Configuration
Configuring CSVs involves setting up a failover cluster and then adding the storage volumes to the cluster. This process ensures that all nodes in the cluster have access to the shared storage and can manage it consistently.

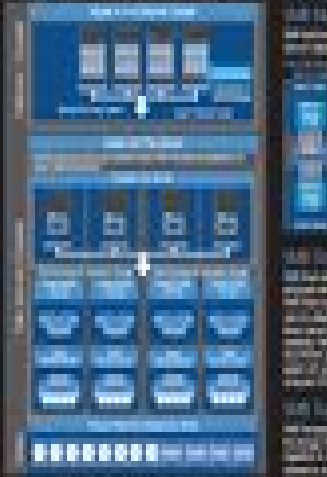


Scale-Out File Server and SMB

Scale-Out File Server and SMB
The Scale-Out File Server (SOFS) and SMB (Server Message Block) are key components of Windows Server 2012 R2's storage architecture. SOFS allows for the creation of a single, large file server that can scale out across multiple nodes, while SMB provides a standard protocol for accessing files and storage resources.

Scale-Out File Server Advantages
SOFS offers several advantages, including the ability to scale storage capacity and performance by adding more nodes to the file server. It also provides a single point of access for clients, simplifying management and improving performance.

SMB Configuration
Configuring SMB involves setting up the file server and then sharing the storage resources. This process ensures that clients can access the shared storage using the SMB protocol, which is a standard for file sharing in Windows environments.



Storage Message Block (SMB)
SMB is a network protocol for sharing files and storage resources between computers. It is a standard protocol used by Windows operating systems to access files and storage resources on a network. SMB allows for the sharing of files and folders, as well as the ability to access storage resources on a remote server.

SMB Advantages
SMB offers several advantages, including ease of use, compatibility with a wide range of operating systems, and the ability to access storage resources on a network. It is a standard protocol that is widely supported and used in enterprise environments.

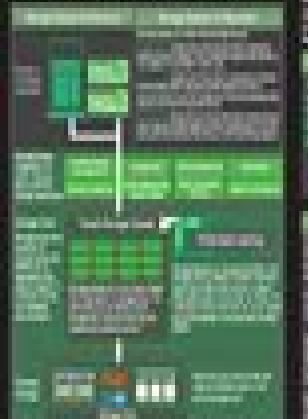
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Storage Spaces

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Storage Spaces is a feature of Windows Server 2012 R2 that allows for the creation of a single, large storage pool from multiple physical disks. This pool can then be used to create virtual disks (VDs) that can be managed and used like any other storage resource.

Storage Spaces Advantages
Storage Spaces offers several advantages, including the ability to pool storage resources from multiple disks, the ability to create virtual disks of any size, and the ability to manage and use the storage resources like any other storage resource.

Storage Spaces Configuration
Configuring Storage Spaces involves creating a storage pool from multiple disks and then creating virtual disks (VDs) from the pool. This process ensures that the storage resources are managed and used effectively.



Deduplication

Deduplication
Deduplication is a storage optimization technique that allows for the storage of only one copy of identical data, rather than multiple copies. This can significantly reduce storage requirements and improve storage efficiency.

Deduplication Advantages
Deduplication offers several advantages, including reduced storage requirements, improved storage efficiency, and the ability to store more data on the same storage infrastructure.

Deduplication Configuration
Configuring deduplication involves setting up the storage pool and then enabling deduplication for the virtual disks (VDs) created from the pool. This process ensures that identical data is stored only once, reducing storage requirements.



Hyper-V and Failover Clustering

Hyper-V and Failover Clustering
Hyper-V and Failover Clustering are key components of Windows Server 2012 R2's virtualization architecture. Hyper-V allows for the creation and management of virtual machines, while Failover Clustering provides high availability for applications and services running on those VMs.

Hyper-V Advantages
Hyper-V offers several advantages, including the ability to run multiple operating systems on a single physical host, the ability to manage and monitor VMs, and the ability to create and manage virtual networks.

Failover Clustering Advantages
Failover Clustering provides high availability for applications and services by allowing them to run on multiple nodes in a cluster. If one node fails, the application can failover to another node, ensuring continuous operation.



Virtual Hard Disk Sharing

Virtual Hard Disk Sharing
Virtual Hard Disk Sharing (VHDS) is a feature of Windows Server 2012 R2 that allows for the sharing of virtual hard disks (VHDs) between multiple virtual machines (VMs). This can be useful for testing and development environments where multiple VMs need to access the same data.

Virtual Hard Disk Sharing Advantages
VHDS offers several advantages, including the ability to share data between multiple VMs, the ability to test and develop applications in a shared environment, and the ability to reduce storage requirements.

Virtual Hard Disk Sharing Configuration
Configuring VHDS involves setting up the storage pool and then sharing the VHDs between the VMs. This process ensures that multiple VMs can access the same data, facilitating testing and development.

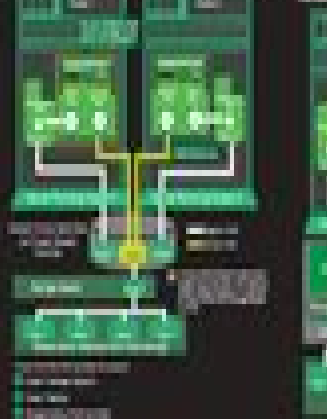


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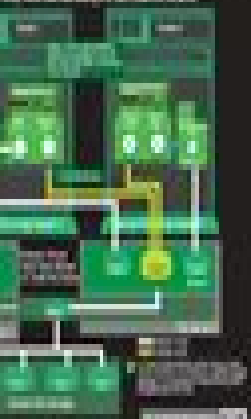


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Windows Server 2012 R2 Virtualization Best Practices

Benedict Berger, Romain Serre

A red circular graphic with a gradient, appearing as a partial circle or a stylized 'C' shape, located to the right of the authors' names.

Windows Server 2012 R2 Virtualization Best Practices:

Hyper-V 2016 Best Practices Benedict Berger, Romain Serre, 2016-10-28 Harness the power of Hyper V 2016 to build high performance infrastructures that suit your needs About This Book Design and build a reliable and efficient Hyper V infrastructure Fine tune your Hyper V performance by adopting network and storage best practices Manage monitor and protect your workloads with System Center and Microsoft Azure Who This Book Is For If you are working with Hyper V and want to optimize its performance and effectiveness this book is for you This book will help you close the gap between the Hyper V lab and production environments What You Will Learn Automate and accelerate the deployment of Hyper V host and nano servers Create high availability solutions using failover clustering Design redundant solutions with Hyper V Replica Protect your workloads by making a backup or learning disaster recovery Use the best practices of network and storage Master the performance and scalability of storage virtualization Migrate your existing virtualization workloads to Hyper V2016 Manage your Hyper V stack with System Center and Azure Bridge the gap between the Hyper V lab and production environment In Detail Hyper V Server and Windows Server 2016 with Hyper V provide best in class virtualization capabilities Hyper V is a Windows based very cost effective virtualization solution with easy to use and well known administrative consoles This book will assist you in designing implementing and managing highly effective and highly available Hyper V infrastructures With an example oriented approach this book covers all the different tips and suggestions to configure Hyper V and provides readers with real world proven solutions This book begins by deploying single clusters of High Availability Hyper V systems including the new Nano Server This is followed by steps to configure the Hyper V infrastructure components such as storage and network It also touches on necessary processes such as backup and disaster recovery for optimal configuration The book does not only show you what to do and how to plan the different scenarios but it also provides in depth configuration options These scalable and automated configurations are then optimized via performance tuning and central management ensuring your applications are always the best they can be Style and approach This book covers Hyper V best practices in a step by step manner with clear and concise examples **Virtualizing Desktops and Apps with**

Windows Server 2012 R2 Inside Out Byron Wright, Brian Svidergol, 2015-04-23 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 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 Security from End to Edge and Beyond Yuri Diogenes,Debra Littlejohn Shinder,Thomas W Shinder,2013-04-18 Windows Server 2012 Security from End to Edge and Beyond shows you how to architect design plan and deploy Microsoft security technologies for Windows 8 Server 2012 in the enterprise The book covers security technologies that apply to both client and server and enables you to identify and deploy Windows 8 security features in your systems based on different business and deployment scenarios The book is a single source for learning how to secure Windows 8 in many systems including core endpoint and anywhere access Authors Tom Shinder and Yuri Diogenes both Microsoft employees bring you insider knowledge of the Windows 8 platform discussing how to deploy Windows security technologies effectively in both the traditional datacenter and in new cloud based solutions With this book you will understand the conceptual underpinnings of Windows 8 security and how to deploy these features in a test lab and in pilot and production environments The book s revolutionary Test Lab Guide approach lets you test every subject in a predefined test lab environment This combined with conceptual and deployment guidance enables you to understand the technologies and move from lab to production faster than ever before Critical material is also presented in key concepts and scenario based approaches to evaluation planning deployment and management Videos illustrating the functionality in the Test Lab can be downloaded from the authors blog http://blogs.technet.com/b/security_talk Each chapter wraps up with a bullet list summary of key concepts discussed in the chapter Provides practical examples of how to design and deploy a world class security infrastructure to protect both Windows 8 and non Microsoft assets on your system Written by two Microsoft employees who provide an inside look at the security features of Windows 8 Test Lab Guides enable you to test everything before deploying live to your system

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

Exam Ref 70-413 Designing and Implementing a Server Infrastructure (MCSE) Paul Ferrill,Tim Ferrill,2014-06-27 Fully updated Prepare for Microsoft Exam 70 413 and help demonstrate your real world mastery designing and implementing Windows Server infrastructure in an enterprise environment 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 MCSE level Focus on the expertise measured by these objectives Plan and deploy a server infrastructure Design and implement network infrastructure services Design and implement network access services Design and implement an Active Directory infrastructure logical Design and implement an Active Directory infrastructure physical This Microsoft Exam Ref Is fully updated for Windows Server 2012 R2 Organizes its coverage by objectives for Exam 70 413 Features strategic what if scenarios to challenge candidates Designed for IT professionals responsible for designing implementing and maintaining a Windows Server 2012 infrastructure in an enterprise scaled highly virtualized environment

Mastering Windows Server 2012 R2 Mark Minasi,Kevin Greene,Christian Booth,Robert Butler,John McCabe,Robert Panek,Michael Rice,Stefan Röth,2013-12-03 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 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

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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

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

MCSA Windows Server 2012 Complete Study Guide William Panek,2013-06-14 Prepare for the MCSA Windows Server 2012 exams with this Sybex study guide Microsoft s new version of the MCSA certification for Windows Server 2012 requires passing three exams This value priced study guide includes more than 1 000 pages of quality exam prep content covering 100 percent of the objective domains of all three exams as well as the Upgrade exam 70 417 Also includes more than 500 practice questions You also have access to three bonus exams 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 Provides a comprehensive study guide for all three MCSA Windows Server 2012 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

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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

Optimizing and Troubleshooting Hyper-V Storage Mitch Tulloch, Windows Server Team, 2013-07-15 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 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

Microsoft Certified Technology Specialist Mcts Certification Prep Guide : 350 Questions & Answers CloudRoar Consulting Services, 2025-08-15 Prepare for the Microsoft Certified Technology Specialist MCTS exam with 350 questions and answers covering Windows server technologies applications networking security and troubleshooting Each question includes practical explanations and real world examples to ensure exam readiness Ideal for IT professionals and system administrators MCTS Microsoft Certification Windows Server Networking Security System Administration Troubleshooting Exam Preparation Tech Certifications IT Certifications Career Growth Certification Guide Professional Development IT Skills Microsoft Technologies

Microsoft System Center Virtual Machine Manager 2012 Cookbook Edvaldo Alessandro Cardoso, 2013-03-26 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

Microsoft SQL Server 2012 Management and Administration Ross Mistry, Shirmattie Seenarine, 2012-09-06 If you need to deploy manage or secure Microsoft SQL Server 2012 this is the complete fast paced task based reference you've been searching for Authored by a

worldclass expert on running SQL Server in the enterprise this book goes far beyond the basics taking on the complex tasks that DBAs need to make the most of Microsoft's first cloud enabled database platform Designed for maximum practical usability it's packed with expert tips and up to date real world configuration guidance you simply won't find anywhere else As someone who helped influence the design of SQL Server 2012 and drawing on many months of beta testing Ross Mistry provides immediately usable solutions for installation and upgrades management and monitoring performance and availability security consolidation virtualization troubleshooting and more Mistry identifies new features and corresponding best practices in every chapter helping you take full advantage of new SQL Server innovations ranging from private cloud support to AlwaysOn Availability Groups Understand how to Efficiently install or upgrade the SQL Server 2012 database engine Administer and configure database engine settings storage I/O and partitioning Transfer data on premise or to the cloud Manage and optimize indexes Learn how to consolidate virtualize and optimize SQL Server for Private Clouds Harden and audit SQL Server 2012 environments Administer security and authorization including new Contained Databases Encrypt data and communications Design and deploy new AlwaysOn high availability and disaster recovery features Implement maintenance best practices including Policy Based Management

Windows Server 2016 Hyper-V Cookbook Patrick Lownds, Charbel Nemnom, Leandro Carvalho, 2017-01-18 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 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 In Detail Hyper V is a Windows based very cost effective virtualization solution with easy to use and well known administrative consoles With this book on your side you will master the worlds of 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 Style and approach This advanced level book provides step by step recipes on real world examples so you can get practical hands on experience of the subjects

Building Cloud Apps with Microsoft Azure Scott Guthrie,Mark Simms,Tom Dykstra,2014-07-17 This ebook walks you through a patterns based approach to building real world cloud solutions The patterns apply to the development process as well as to architecture and coding practices The content is based on a presentation developed by Scott Guthrie and delivered by him at the Norwegian Developers Conference NDC in June of 2013 part 1 part 2 and at Microsoft Tech Ed Australia in September 2013 part 1 part 2 Many others updated and augmented the content while transitioning it from video to written form Who should read this book Developers who are curious about developing for the cloud are considering a move to the cloud or are new to cloud development will find here a concise overview of the most important concepts and practices they need to know The concepts are illustrated with concrete examples and each chapter includes links to other resources that provide more in depth information The examples and the links to additional resources are for Microsoft frameworks and services but the principles illustrated apply to other web development frameworks and cloud environments as well Developers who are already developing for the cloud may find ideas here that will help make them more successful Each chapter in the series can be read independently so you can pick and choose topics that you re interested in Anyone who watched Scott Guthrie s Building Real World Cloud Apps with Windows Azure presentation and wants more details and updated information will find that here Assumptions This ebook expects that you have experience developing web applications by using Visual Studio and ASP NET Familiarity with C would be helpful in places [Active Directory](#) Brian Desmond,Joe Richards,Robbie Allen,Alistair G. Lowe-Norris,2013-04-11 Provides information on the features functions and implementation of Active Directory covering such topics as management tools searching the AD database and the Kerberos security protocol *CompTIA Server+ Study Guide* Troy McMillan,2016-06-01 NOTE The correct URL to access the Sybex interactive online test bank and study tools is www.wiley.com/go/sybextestprep The book s back cover Introduction and last page in the book provided the wrong URL We apologize for any confusion and inconvenience this may have caused you Comprehensive interactive exam preparation plus expert insight from the field CompTIA Server Study Guide Exam SK0 004 is your ideal study companion for the SK0 004 exam With 100% coverage of all exam objectives this guide walks you through system hardware software storage best practices disaster recovery and troubleshooting with additional coverage of relevant topics including virtualization big data cloud storage security and scalability Get an in the trenches view of how server and data storage administration works in a real world IT environment From the basics through advanced topics you ll learn how to deliver world class solutions in today s evolving organizations by getting under the hood of technologies that enable performance resiliency availability recoverability and simplicity Gain access to the Sybex interactive online learning

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