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Windows Server 2012 R2 Inside Out: Configuration, Storage, Essentials

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

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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®
Windows Server 2012 R2 Inside
Out Configuration, Storage, &

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Fully updated for Windows Server 2012 R2! Designed to help enterprise administrators develop real-world, job-role-specific skills - this Training Guide focuses on core infrastructure administration for 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 Focuses on job-role-specific expertise for core infrastructure administration 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

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by Microsoft Certification exams such as 70-411 Topics include: Deploying and updating Windows Server 2012 R2
Managing account policies and service accounts
Configuring name resolution
Administering Active Directory
Managing Group Policy application and infrastructure
Configuring Group Policy settings and preferences
Administering network policies
Administering remote access
Managing file services
Monitoring and auditing
Windows Server 2012 R2

The aim of this guide is to take the reader through a typical installation of a small Windows Server 2012 R2 network and is written for the following audience:*

- Someone who is new to Windows Server 2012 R2 and installing it for the first time
- Someone

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setting up Windows Server 2012 R2 in a small business setting* Someone wishing to learn the basics of Windows Server 2012 R2 and who wants a succinct, practical guide based on real world scenarios and experience rather than abstract theoryThe approach is very much practical and hands on and based on real world experience. It should give you a good feel for Windows Server and help you setup a network that meets the needs of a typical small organization. It assumes a reasonable working knowledge of Windows, along with the basics of networking. With over 110 illustrations and screenshots and written in a friendly, no nonsense style, it is the ideal introduction to Windows Server.

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Windows Server 2012 R2 Network
Installation Guide

Training Guide Administering

Windows Server 2012 R2 (MCSA)

Windows Group Policy: The Personal
Trainer for Windows Server 2012 and
Windows Server 2012 R2

Pocket Consultant

Windows Server 2008 Inside Out

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*Go-to guide for using
Microsoft's updated Hyper-V
as a virtualization solution
Windows Server 2012 Hyper-
V offers greater scalability,
new components, and more
options than ever before for
large enterprises 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*

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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

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*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*

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*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.*

*This supremely organized
reference packs hundreds of
timesaving solutions,
troubleshooting tips, and
workarounds for Windows
Server 2012 R2 - with a
focus on infrastructure, core
services, and security
features. Coverage includes:
TCP/IP networking
Managing DHCP DNS
infrastructure and*

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Configuration, Storage,
Essentials
*management Implementing
and managing DNS and
WINS Active Directory
architecture, sites,
replication, domain services
Read-only domain
controllers Managing users,
groups, and computers
Managing Group Policy
Active Directory site
administration Deploying
and managing print services
This book is intended for
system administrators and
IT professionals with
experience in Windows
Server 2008 or Windows
Server 2012 environments
who are looking to acquire*

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the skills and knowledge necessary to manage and maintain the core infrastructure required for a Windows Server 2012 and Windows Server 2012 R2 environment.

Discusses how to configure and manage Microsoft Server 2012's expanded capabilities, covering data management, user permissions, networking tools, and data integrity.

Windows Server 2012 Hyper-V Cookbook

Windows Server 2012 R2 Inside Out

WINDOWS SERVER 2012

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*R2 CONFIGURATION,
STORAGE, & ESSENTIALS
INSIDE OUT.*

*Windows Server 2012 R2
Pocket Consultant Volume 1
Administering Windows
Server 2012 R2*

This Microsoft Official Academic Course (MOAC) IT Professional curriculum prepares certification students for success every step of the way. This 70-413 Designing and Implementing a Server Infrastructure exam course is the first of a series of two exams Microsoft Certified Solutions Associates (MCSE) candidates are required to pass to gain the MCSE: Windows Server 2012 and Windows Server 2012 R2 certification. These MCSE exams test the skills and knowledge necessary to design, implement, and maintain a Windows Server 2012

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infrastructure in an enterprise scaled, highly virtualized environment. Passing these exams confirms students' ability to plan, configure, and implement the Windows Server 2012 services, such as server deployment, server virtualization, and network access and infrastructure. This complete ready-to-teach MOAC program is mapped to all of the exam objectives.

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

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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,

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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

This text does not include a MOAC Labs Online access code. This 70-410 Installing and Configuring Windows Server 2012 R2 textbook prepares certification students for the first of a series of three exams which validate the skills and knowledge necessary

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to implement a core Windows Server 2012 Infrastructure into an existing enterprise environment. This Microsoft Official Academic Course is mapped to the 70-410 Installing and Configuring Windows Server 2012 exam skills, including the recent R2 objectives. This textbook focuses on real skills for real jobs and prepares students to prove mastery of core services such as Active Directory and networking services. In addition, this book also covers such valuable skills as: Managing Active Directory Domain Services Objects Automating Active Directory Domain Services Administration Implementing Local Storage Implementing File and Print Services Implementing Group Policy Implementing Server Virtualization with Hyper-V The MOAC IT Professional series is the Official from Microsoft, turn-key Workforce training program that leads to professional certification and was

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authored for college instructors and college students. MOAC gets instructors ready to

teach and students ready for work by delivering essential resources in 5 key areas: Instructor readiness, student software, student assessment, instruction resources, and learning validation. With the Microsoft Official Academic course program, you are getting instructional support from Microsoft; materials that are accurate and make course delivery easy. 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-

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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
Exam 70-411 Administering Windows
Server 2012
Configuration, Storage, & Essentials
Installing and Configuring Windows Server
2012 R2
MCSA Windows Server 2012 Complete
Study Guide

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Configuration, Storage,
Essentials & Configuration
Essentials

Your Personal Trainer for Active Directory! Learning Active Directory administration doesn't have to be a frustrating experience, you can learn everything you need to manage Active Directory effectively by reading this book. To learn how to manage Active Directory, you need practical hands-on advice from an expert who understands what it is like to just start out. By working step by step through essential tasks, you can learn to:

- Install forests, domain trees, and child domains
- Add and remove writable domain controllers
- Deploy and manage read-only controllers
- Configure, maintain, and troubleshoot global catalog servers
- Maintain directory and data integrity using operations masters
- Evaluate sites, subnets, and replication before expanding a network
- Establish a

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trust relationship between domains and between forests • Maintain and recover Active Directory Domain Services • Employ essential tools and command-line utilities This book is designed for anyone who wants to learn how to manage Active Directory, including those who manage or support computers running Windows Server 2012 and Windows Server 2012 R2. Inside, you'll find comprehensive overviews, step-by-step procedures, frequently used tasks, documented examples, and much more. One of the goals is to keep the content so concise that the book remains compact and easy to navigate while at the same time ensuring that the book is packed with as much information as possible--making it a valuable resource. Buy this book for yourself, a friend, a relative, and anyone else who needs help

**Configuration, Storage,
Essentials**
mastering Active Directory for

**Windows Server 2012 and Windows
Server 2012 R2. Learning Active
Directory administration doesn't have
to be a frustrating experience, you can
learn everything you need to manage
Active Directory effectively by reading
this book. To learn how to manage
Active Directory, you need practical
hands-on advice from an expert who
understands what it is like to just start
out. By working step by step through
essential tasks, you can learn to: Install
forests, domain trees, and child domains
Add and remove writable domain
controllers Deploy and manage read-
only controllers Configure, maintain,
and troubleshoot global catalog servers
Maintain directory and data integrity
using operations masters Evaluate sites,
subnets, and replication before
expanding a network Establish a trust**

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**relationship between domains and
between forests Maintain and recover
Active Directory Domain Services
Employ essential tools and command-
line utilities This book is designed for
anyone who wants to learn how to
manage Active Directory, including
those who manage or support
computers running Windows Server
2012 and Windows Server 2012 R2.
Inside, you'll find comprehensive
overviews, step-by-step procedures,
frequently used tasks, documented
examples, and much more. One of the
goals is to keep the content so concise
that the book remains compact and easy
to navigate while at the same time
ensuring that the book is packed with as
much information as possible--making
it a valuable resource.
Microsoft Windows Server is a multi-
purpose server designed to increase**

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reliability and flexibility of a network infrastructure. Windows Server is the paramount tool used by enterprises in their datacenter and desktop strategy. The most recent versions of Windows Server also provide both server and client virtualization. Its ubiquity in the enterprise results in the need for networking professionals who know how to plan, design, implement, operate, and troubleshoot networks relying on Windows Server. Microsoft Learning is preparing the next round of its Windows Server Certification program with exams covering the new version of the software, Windows Server 2012. The exams and certification path change significantly from the previous version of Windows Server. This provides an opportunity for the MS line to capitalize on the dual disruption of brand-new software and brand-new

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Your one-stop reference for Windows Server 2019 and PowerShell know-how Windows Server 2019 & PowerShell All-in-One For Dummies offers a single reference to help you build and expand your knowledge of all things Windows Server, including the all-important PowerShell framework. Written by an information security pro and professor who trains aspiring system administrators, this book covers the broad range of topics a system administrator needs to know to run Windows Server 2019, including how to install, configure, and secure a system. This book includes coverage of:

- Installing & Setting Up Windows Server**
- Configuring Windows Server 2019**
- Administering Windows Server 2019**
- Configuring Networking Managing Security Working with Windows**

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**PowerShell Installing and
Administering Hyper-V Installing,**

**Configuring, and Using Containers If
you're a budding or experienced system
administrator looking to build or
expand your knowledge of Windows
Server, this book has you covered.**

**Exams 70-410, 70-411, 70-412, and
70-417**

MCSA 70-411

Training Guide

**Windows Server 2012: Up and Running
Exam 70-410**

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

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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 automation
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

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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;

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creating and managing Group Policy Objects; and configuring server roles and features, Hyper-V, and core networking services Explains basic networking concepts, DHCP, deploying and maintaining servers, configuring a network policy server infrastructure and high availability in Windows Server 2012, and much more Features real-world scenarios, hands-on exercises, practice exams, electronic flashcards, and over an hour of video demonstrations Covers all exam objectives MCSA Windows Server 2012 Complete Study Guide arms you with all the information you must master to achieve MCSA certification on Windows Server 2012. Conquer Windows Server 2012 R2 virtualization--from the inside out! Dive into Windows Server 2012 R2 virtualization--and really put your

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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,

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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
This supremely organized reference
packs hundreds of timesaving
solutions, troubleshooting tips, and
workarounds for Windows Server
2012 R2 - with a focus on
configuration, storage, and essential
administrative tasks. Coverage
includes: Deployment Boot
configuration Administration
Configuring roles, role services, and
features Managing and

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troubleshooting hardware TPM and
Bitlocker drive encryption Managing
the registry Software and user
account control administration
Managing storage and file systems
File sharing and security features
Performance monitoring, analyzing,
and tuning Backup and recovery
Windows Server 2012 R2 Inside Out
Volume 1

Mastering Windows Server 2012 R2
Introducing Windows Server 2012 R2
Wind Serv 2012 Unleash _c1
Windows Server 2012 Security from
End to Edge and Beyond

***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***

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Installation and Configuration Study Guide: Exam 70-410 provides complete preparation for exam 70-410: Installing and Configuring Windows Server 2012 R2. With comprehensive coverage of all exam topics and plenty of hands-on practice, this self-paced guide is the ideal resource for those preparing for the MCSA on Windows Server 2012 R2. Real-world scenarios demonstrate how the lessons are applied in everyday settings. Readers also get access to the interactive practice tests, electronic flashcards, and video demonstration of the more difficult tasks, which help readers fully understand

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the scope of principles at work. Exam 70-410 is one of three exams MCSA candidates must take to obtain their MCSA: Windows Server 2012 R2. The test is aligned with the 2012 update to the Windows server operating system, and so is the book. This study guide contains everything users need to know for the exam, including the 2012 update's changes to Hyper-V and Active Directory. Avoid surprises on exam day, and master the material while learning to: Install and configure Windows Server 2012 R2 Configure Hyper-V and server roles and features Install and administer Active Directory Manage Group

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Policy Exam prep is about more than passing the test—it helps you gain hands-on experience performing more complex operations, giving you the confidence you need to successfully apply what you've learned in a work environment. If you're looking to triumph over the MCSA exam 70-410, MCSA: Windows Server 2012 R2 Installation and Configuration Study Guide: Exam 70-410 provides the information and practice you need. Fully updated for Windows Server 2012 R2! Designed to help enterprise administrators develop real-world, job-role-specific skills - this Training Guide focuses on core

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**infrastructure administration
for 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: Focuses on job-role-
specific expertise for core
infrastructure administration
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
70-411 Topics include:**

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and service accounts
Configuring name resolution
Administering Active
Directory Managing Group
Policy application and
infrastructure Configuring
Group Policy settings and
preferences Administering
network policies
Administering remote access
Managing file services
Monitoring and auditing
Windows Server 2012 R2
Book + Content Update
Program This is the most
comprehensive and realistic
guide to Windows Server 2016
planning, design, prototyping,
implementation, migration,**

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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***

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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.

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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

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*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 the most comprehensive and realistic guide to Windows Server 2012 planning, design, prototyping, implementation, migration,

administration, and support. Extensively updated, it contains unsurpassed independent and objective coverage of Windows Server 2012's key innovations, including improved virtualization components, enhanced security tools, new web and management resources, and Windows 8 integration. Windows Server 2012 Unleashed reflects the authors' extraordinary experience implementing Windows Server 2012 in large-scale environments since its earliest alpha releases, reaching back more than two years prior to its official launch. Microsoft MVP Rand Morimoto and his colleagues

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Essentials*

***fully address every aspect of
deploying and operating
Windows Server 2012,
including Active Directory,
networking and core
application services, security,
migration from Windows
Server 2003/2008,
administration, fault
tolerance, optimization,
troubleshooting, and much
more. Valuable for Windows
professionals at all skill
levels, this book will be
especially indispensable 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***

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***information for using
Windows Server 2012 to solve
real business problems. Plan
and migrate from Windows
Server 2003 and 2008
Leverage powerful capabilities
that are truly new in Windows
Server 2012 Install Windows
Server 2012 and the GUI-less
Windows Server Core Upgrade
to Windows Server 2012
Active Directory Utilize
advanced AD capabilities
including federated forests
and identity management
Plan and deploy network
services, from DNS and DHCP
to IPv6, IPAM, and IIS Protect
systems and data with server-
level security, transport-level
security, and security policies
Deliver true end-to-end***

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