

File Type PDF Mastering  
Windows Server 2008  
Networking Foundations

# **Mastering Windows Server 2008 Networking Foundations**

Windows SharePoint Services (WSS) 3.0 is the latest version of the collaboration tool found in Windows Server 2003 R2 and also the underlying technology of Microsoft Office SharePoint Server (MOSS) 2007. In this comprehensive book you'll go under the hood of WSS 3.0 and discover how to make it easy to share documents, track tasks,

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create common workspaces where teams can work collectively, set up discussion groups, and more. Includes essential techniques for site creation, administration, customization, security, and disaster recovery, and practical steps for migrating from 2.0 to 3.0. Master building and integrating secure private networks using OpenVPN

About This Book Discover how to configure and set up a secure OpenVPN

Enhance user experience by using multiple authentication methods

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Delve into better reporting, monitoring, logging, and control with OpenVPN Who This Book Is For If you are familiar with TCP/IP networking and general system

administration, then this book is ideal for you.

Some knowledge and understanding of core elements and applications related to Virtual Private Networking is assumed.

What You Will Learn

Identify different VPN protocols (IPSec, PPTP, OpenVPN) Build your own PKI and manage

certificates Deploy your

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VPN on various devices like PCs, mobile phones, tablets, and more

Differentiate between the routed and bridged network

Enhance your VPN with monitoring and logging

Authenticate against third-party databases like LDAP or the Unix password file

Troubleshoot an OpenVPN setup that is not performing correctly

In Detail Security on the internet is increasingly vital to both businesses and individuals.

Encrypting network traffic using Virtual Private Networks is one method to

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enhance security. The internet, corporate, and “free internet” networks grow more hostile every day. OpenVPN, the most widely used open source VPN package, allows you to create a secure network across these systems, keeping your private data secure. The main advantage of using OpenVPN is its portability, which allows it to be embedded into several systems. This book is an advanced guide that will help you build secure Virtual Private Networks using OpenVPN. You will begin your journey with an

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exploration of OpenVPN, while discussing its modes of operation, its clients, its secret keys, and their format types. You will explore PKI: its setting up and working, PAM authentication, and MTU troubleshooting. Next, client-server mode is discussed, the most commonly used deployment model, and you will learn about the two modes of operation using "tun" and "tap" devices. The book then progresses to more advanced concepts, such as deployment scenarios in tun devices which will

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include integration with back-end authentication, and securing your OpenVPN server using iptables, scripting, plugins, and using OpenVPN on mobile devices and networks. Finally, you will discover the strengths and weaknesses of the current OpenVPN implementation, understand the future directions of OpenVPN, and delve into the troubleshooting techniques for OpenVPN. By the end of the book, you will be able to build secure private networks across the internet and hostile

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networks with confidence.  
Style and approach An easy-  
to-follow yet  
comprehensive guide to  
building secure Virtual  
Private Networks using  
OpenVPN. A progressively  
complex VPN design is  
developed with the help of  
examples. More advanced  
topics are covered in each  
chapter, with subjects  
grouped according to their  
complexity, as well as  
their utility.  
Become an expert in  
implementing advanced,  
network-related tasks with  
Python. About This Book  
Build the skills to



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perform all networking tasks using Python with ease Use Python for network device automation, DevOps, and software-defined networking Get practical guidance to networking with Python Who This Book Is For If you are a network engineer or a programmer who wants to use Python for networking, then this book is for you. A basic familiarity with networking-related concepts such as TCP/IP and a familiarity with Python programming will be useful. What You Will Learn Review all the

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fundamentals of Python and the TCP/IP suite Use Python to execute commands when the device does not support the API or programmatic interaction with the device Implement automation techniques by integrating Python with Cisco, Juniper, and Arista eAPI Integrate Ansible using Python to control Cisco, Juniper, and Arista networks Achieve network security with Python Build Flask-based web-service APIs with Python Construct a Python-based migration plan from a legacy to scalable SDN-based

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network. In Detail This book begins with a review of the TCP/ IP protocol suite and a refresher of the core elements of the Python language. Next, you will start using Python and supported libraries to automate network tasks from the current major network vendors. We will look at automating traditional network devices based on the command-line interface, as well as newer devices with API support, with hands-on labs. We will then learn the concepts and practical use cases of the Ansible

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framework in order to achieve your network goals. We will then move on to using Python for DevOps, starting with using open source tools to test, secure, and analyze your network. Then, we will focus on network monitoring and visualization. We will learn how to retrieve network information using a polling mechanism, flow-based monitoring, and visualizing the data programmatically. Next, we will learn how to use the Python framework to build your own customized

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network web services. In the last module, you will use Python for SDN, where you will use a Python-based controller with OpenFlow in a hands-on lab to learn its concepts and applications. We will compare and contrast OpenFlow, OpenStack, OpenDaylight, and NFV. Finally, you will use everything you've learned in the book to construct a migration plan to go from a legacy to a scalable SDN-based network. Style and approach An easy-to-follow guide packed with hands-on examples of using Python

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for network device automation, DevOps, and SDN.

Conquer SQL Server 2017 administration—from the inside out Dive into SQL Server 2017 administration—and really put your SQL Server DBA expertise to work. This supremely organized reference packs hundreds of timesaving solutions, tips, and workarounds—all you need to plan, implement, manage, and secure SQL Server 2017 in any production environment: on-premises, cloud, or hybrid. Four SQL

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Server experts offer a complete tour of DBA capabilities available in SQL Server 2017 Database Engine, SQL Server Data Tools, SQL Server Management Studio, and via PowerShell. Discover how experts tackle today's essential tasks—and challenge yourself to new levels of mastery. • Install, customize, and use SQL Server 2017's key administration and development tools • Manage memory, storage, clustering, virtualization, and other components • Architect and

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implement database infrastructure, including IaaS, Azure SQL, and hybrid cloud configurations • Provision SQL Server and Azure SQL databases • Secure SQL Server via encryption, row-level security, and data masking • Safeguard Azure SQL databases using platform threat protection, firewalling, and auditing • Establish SQL Server IaaS network security groups and user-defined routes • Administer SQL Server user security and permissions • Efficiently design tables



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using keys, data types, columns, partitioning, and views • Utilize BLOBs and external, temporal, and memory-optimized tables • Master powerful optimization techniques involving concurrency, indexing, parallelism, and execution plans • Plan, deploy, and perform disaster recovery in traditional, cloud, and hybrid environments For Experienced SQL Server Administrators and Other Database Professionals • Your role: Intermediate-to-advanced level SQL Server database administrator,

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architect, developer, or  
performance tuning expert

- Prerequisites: Basic understanding of database administration procedures

Mastering Windows Server  
2016 Hyper-V

Mastering OpenVPN

Installing and Configuring  
Windows Server 2012 R2

Mastering Windows Server  
2008 Networking

Foundations

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

**Enhance and secure your  
datacenter with the newest  
Microsoft server platform Key  
Features** Develop necessary skills to

**design and implement Microsoft Server 2019 in enterprise environment Provide support to your medium to large enterprise and leverage your experience in administering Microsoft Server 2019 Effectively administering Windows server 2019 with the help of practical examples Book Description Mastering Windows Server 2019 – Second Edition covers all of the essential information needed to implement and utilize this latest-and-greatest platform as the core of your data center computing needs. You will begin by installing and managing Windows Server 2019, and by clearing up common points of confusion surrounding the versions and licensing of this new product. Centralized management,**

monitoring, and configuration of servers is key to an efficient IT department, and you will discover multiple methods for quickly managing all of your servers from a single pane of glass. To this end, you will spend time inside Server Manager, PowerShell, and even the new Windows Admin Center, formerly known as Project Honolulu. Even though this book is focused on Windows Server 2019 LTSC, we will still discuss containers and Nano Server, which are more commonly related to the SAC channel of the server platform, for a well-rounded exposition of all aspects of using Windows Server in your environment. We also discuss the various remote access technologies available in this operating system, as well as

**guidelines for virtualizing your data center with Hyper-V. By the end of this book, you will have all the ammunition required to start planning for, implementing, and managing Windows. What you will learn**  
**Work with the updated Windows Server 2019 interface, including Server Core and Windows Admin Center**  
**Secure your network and data with new technologies in Windows Server 2019**  
**Learn about containers and understand the appropriate situations to use Nano Server**  
**Discover new ways to integrate your data center with Microsoft Azure**  
**Harden your Windows Servers to help keep the bad guys out**  
**Virtualize your data center with Hyper-V**  
**Who this book is for**  
**If you are a System Administrator or an IT professional**

**interested in designing and deploying Windows Server 2019 then this book is for you. Previous experience of Windows Server operating systems and familiarity with networking concepts is required.**

**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.**

**Whether you're new to Active Directory (AD) or a savvy system administrator looking to brush up on your skills, Active Directory for Dummies, 2nd Edition will steer you in the right direction! Since its original release, Microsoft's implementation of the lightweight**

**directory access protocol (LDAP) for the Windows Server line of networking software has become one of the most popular directory service products in the world. If you are involved with the design and support of Microsoft directory services and/or solutions, you really need this book! You'll understand the basics of AD and utilize its structures to simplify your life and secure your digital environment. You'll discover how to exert fine-grained control over groups, assets, security, permissions, and policies on a Windows network and efficiently configure, manage, and update the network. You'll find new and updated material on security improvements, significant user interface changes, and updates to**

**the AD scripting engine, password policies, accidental object deletion protection, and more. You will learn how to: Navigate the functions and structures of AD Understand business and technical requirements and determine goals Become familiar with physical components like site links, network services, and site topology Manage and monitor new features, AD replication, and schema management Maintain AD databases Avoid common AD mistakes that can undermine network security Complete with lists of the ten most important points about AD, and ten cool Web resources, and ten troubleshooting tips, Active Directory For Dummies, 2nd Edition is your one-stop guide to setting up, working with, and**



**making the most of Active Directory. Note: CD-ROM/DVD and other supplementary materials are not included as part of eBook file. Learn how to conquer Windows Server 2008—from the inside out! Designed for system administrators, this definitive resource features hundreds of timesaving solutions, expert insights, troubleshooting tips, and workarounds for administering Windows Server 2008—all in concise, fast-answer format. You will learn how to perform upgrades and migrations, automate deployments, implement security features, manage software updates and patches, administer users and accounts, manage Active Directory directory services, and more. With INSIDE OUT, you'll discover the**

**best and fastest ways to perform core administrative tasks, with an award-winning format that makes it easy to find exactly the tips, troubleshooting solutions, and workarounds you need. Plus, the companion CD comes packed with a fully searchable eBook and more than 100 timesaving tools and scripts. With INSIDE OUT, you get all muscle and no fluff! For customers who purchase an ebook version of this title, instructions for downloading the CD files can be found in the ebook.**

**Mastering Windows SharePoint Services 3.0**

**Mastering Windows XP Professional**

**Secure and protect your Windows environment from intruders, malware attacks, and other cyber**

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threats

**Mastering Microsoft Windows 7  
Administration**

**Mastering Microsoft Exchange  
Server 2016**

Find all the information you need to manage and maintain Active Directory in Mastering Active Directory for Windows Server® 2008, an in-depth guide updated with over 300 pages of new material. Revised to address the new components, enhancements, and capabilities brought by Windows Server 2008 to the directory services, this book covers domain name system design, Active Directory forest and domain design, maintaining organizational units, managing group policy, implementing best practices, and more. Expect high-

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level coverage of the new version of Microsoft's powerful user authentication and authorization tool, fully updated for Windows Server 2008.

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, migrating

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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® An authoritative guide to investigating high-technology crimes Internet crime is seemingly ever on the rise, making

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the need for a comprehensive resource on how to investigate these crimes ever more dire. This professional-level book--aimed at law enforcement personnel, prosecutors, and corporate investigators--provides you with the training you need in order to acquire the sophisticated skills and software solutions to stay one step ahead of computer criminals.

Specifies the techniques needed to investigate, analyze, and document a criminal act on a Windows computer or network Places a special emphasis on how to thoroughly

investigate criminal activity and now just perform the initial response

Walks you through ways to present technically complicated material in simple terms that will hold up in court

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Features content fully updated for Windows Server 2008 R2 and Windows 7 Covers the emerging field of Windows Mobile forensics Also included is a classroom support package to ensure academic adoption, Mastering Windows Network Forensics and Investigation, 2nd Edition offers help for investigating high-technology crimes.

Become an expert at managing enterprise identity infrastructure with Active Directory Domain Services 2012 Key Features Design and update your identity infrastructure by utilizing the latest Active Directory features and core capabilities Overcome migration challenges as you update to Active Directory Domain Services

2022 Establish a strong identity foundation in the cloud by consolidating secure access Book Description Mastering Active Directory, Third Edition is a comprehensive guide for Information Technology professionals looking to improve their knowledge about MS Windows Active Directory Domain Service. The book will help you to use identity elements effectively and manage your organization's infrastructure in a secure and efficient way. This third edition has been fully updated to reflect the importance of cloud-based strong authentication and other tactics to protect identity infrastructure from emerging security threats. Mastering Active Directory, Third Edition



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provides extensive coverage of AD Domain Services and helps you explore their capabilities as you update to Windows Server 2022. This book will also teach you how to extend on-premises identity presence to cloud via Azure AD hybrid setup. By the end of this Microsoft Active Directory book, you'll feel confident in your ability to design, plan, deploy, protect, and troubleshoot your enterprise identity infrastructure. What you will learn

Install, protect, and manage Active Directory Domain Services (Windows Server 2022)

Design your hybrid identity by evaluating business and technology requirements

Automate administrative tasks in Active Directory using Windows PowerShell 7.x

Protect

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sensitive data in a hybrid environment using Azure Information Protection Learn about Flexible Single Master Operation (FSMO) roles and their placement Manage directory objects effectively using administrative tools and PowerShell Centrally maintain the state of user and computer configuration by using Group Policies Harden your Active Directory using security best practices Who this book is for If you are an Active Directory administrator, system administrator, or IT professional who has basic knowledge of Active Directory and is looking to become an expert in this topic, this book is for you. You need to have some experience of working with Active Directory to make the most of

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this book.

Windows Server 2008 For Dummies  
Mastering Windows Network  
Forensics and Investigation, 2nd  
Edition

Windows Server 2016 Unleashed  
(includes Content Update Program)  
Mastering Windows Security and  
Hardening

Active Directory

***The ONLY Windows 2000  
Resource You Need--Now  
With a New Emphasis on  
Security! The #1 choice  
of Windows  
administrators,  
Mastering Windows 2000  
Server gives you all the  
conceptual and practical***

***information you need to get the most out of Microsoft's flagship network operating system. This is the premier resource for configuring, administering, and tuning Windows 2000 Server as part of a corporate enterprise network. You can depend on it for clear, authoritative instruction in hundreds of techniques that will make your work easier and your job more secure. Coverage***

***Includes: \* Installing Windows 2000 \* Configuring IP, DHCP, WINS, and DNS to achieve the right foundation for your network \* Building and managing domains with Active Directory \* Controlling hundreds, even thousands, of workstations with group policies \* Prebuilding and delivering complete workstation images with Remote Installation Services \* Deploying applications throughout the enterprise with Microsoft Installer \****

***Understanding advanced  
DNS design and  
troubleshooting to keep  
your domains secure and  
running \* Improving  
network resource  
accessibility with Dfs,  
Web folders, shared  
printers, and Web  
printing \* Using Windows  
2000 to share Internet  
Connections \* Tuning and  
monitoring your network  
\* Securing your network  
with new coverage of  
IPSec, certificates,  
security templates,  
simplified hotfix  
installations, auditing,***

***and more \* Offering Web content with Internet Information Services 5 Real Solutions to Real Challenges If improving the real-world performance of your network is the bottom line, this book delivers the goods. It shows you how to design and manage a multiple-platform network, build a Windows-based intranet, find the right data backup strategy, prevent and recover from disasters, and much more. There's no end to what you'll***

***accomplish with  
practical, step-by-step  
instruction from the  
expert who has actually  
done it all on live  
networks!***

***Enhance and secure your  
datacenter with  
Microsoft Windows Server  
2019 Key Features Updated  
with four new chapters  
on Active Directory, DNS  
and DHCP, group policy,  
and  
troubleshooting Design  
and implement Microsoft  
Server 2019 in an  
enterprise  
environment Learn how to***



*use Windows Server to create secure and efficient networks*  
*Book Description* Written by a nine-time Microsoft MVP award winner with over twenty years of experience working in IT, *Mastering Windows Server 2019* is a hands-on guide for anyone looking to keep their skills up to date. This third edition comes with four new chapters to provide you with the in-depth knowledge needed to implement and use this operating system in

**any environment. Centralized management, monitoring, and configuration of servers are key to an efficient IT department. This book delves into multiple methods for quickly managing all your servers from a 'single pane of glass' – the ability to monitor different servers across a network using Server Manager, Windows PowerShell, and even Windows Admin Center – from anywhere. Despite the focus on Windows**

***Server 2019 LTSC, you will still explore containers and Nano Server, which are more related to the SAC of server releases. This additional coverage will give you insights into all aspects of using Windows Server 2019 in your environment. This book covers a range of remote access technologies available in this operating system, teaches management of PKI and certificates, and empowers you to***

***virtualize your  
datacenter with Hyper-V.  
You will also discover  
the tools and software  
included with Windows  
Server 2019 that assist  
in the inevitable  
troubleshooting of  
problems that crop up.  
What you will learn  
Work with Server Core and  
Windows Admin  
Center  
Secure your  
network and data with  
modern technologies in  
Windows Server  
2019  
Understand  
containers and  
understand when to use***

***Nano Server Discover new ways to integrate your datacenter with Microsoft Azure Reinforce and secure your Windows Server Virtualize your datacenter with Hyper-V Explore Server Manager, PowerShell, and Windows Admin Center Centralize your information and services using Active Directory and Group Policy Who this book is for If you are a system administrator or an IT professional designing and deploying Windows Server 2019, this book***

*is for you. It will be particularly useful for sysadmins who've worked with older versions of Microsoft Server or those who want to stay up to date with new developments. Prior experience with Windows Server operating systems and familiarity with networking concepts is a must.*

*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](http://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.**

**The one book you absolutely need to get up and running with Windows Server 2008 R2.**

***One of the world's leading Windows authorities and top-selling author Mark Minasi explores every nook and cranny of the latest version of Microsoft's flagship network operating system, Windows Server 2008 R2, giving you the most in-depth coverage in any book on the market. Focuses on Windows Windows Server 2008 R2, the newest version of Microsoft's Windows' server line of operating system, and***

*the ideal server for new Windows 7 clients Author Mark Minasi is one of the world's leading Windows authorities and has taught tens of thousands of people to design and run Windows networks Covers Windows storage concepts and skills, Windows Server 2008 IP, WINS, NetBIOS, LMHosts, DNS, creating the simple Active Directory, and creating and managing user accounts Explains Group Policy in Active Directory; files,*

***folders and shares;  
Sysvol, old and new;  
sharing printers on the  
network; remote server  
administration;  
connecting Windows  
clients to your network;  
working the Web with IIS  
7.0; and AD maintenance  
and recovery Provides  
workarounds for things  
that don't quite work as  
they should and how-tos  
for many undocumented  
features Find out  
everything you want to  
know-and then some!  
Microsoft Windows Server  
2008 R2 Administrator's***



## **Reference**

***The complete guide for  
system administrators to  
install, manage, and  
deploy new capabilities  
with Windows Server  
2019, 3rd Edition***

***SQL Server 2017  
Administration Inside  
Out***

***Mastering Active  
Directory for Windows  
Server 2008***

***Mastering Microsoft  
Windows Small Business  
Server 2008***

Become a master at managing enterprise identity infrastructure by leveraging Active Directory About This Book Manage

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## Windows Server 2008

### Networking Foundations

your Active Directory services for Windows Server 2016 effectively Automate administrative tasks in Active Directory using PowerShell Manage your organization's network with ease Who This Book Is For If you are an Active Directory administrator, system administrator, or network professional who has basic knowledge of Active Directory and are looking to gain expertise in this topic, this is the book for you. What You Will Learn Explore the new features in Active Directory Domain Service 2016 Automate AD tasks with PowerShell Get to know the advanced functionalities of the schema Learn about Flexible Single Master Operation (FSMO) roles and their placement Install and migrate Active directory from older versions to Active Directory 2016 Manage Active Directory objects using different tools and techniques Manage users, groups, and

devices effectively Design your OU structure in the best way Audit and monitor Active Directory Integrate Azure with Active Directory for a hybrid setup In Detail Active Directory is a centralized and standardized system that automates networked management of user data, security, and distributed resources and enables interoperation with other directories. If you are aware of Active Directory basics and want to gain expertise in it, this book is perfect for you. We will quickly go through the architecture and fundamentals of Active Directory and then dive deep into the core components, such as forests, domains, sites, trust relationships, OU, objects, attributes, DNS, and replication. We will then move on to AD schemas, global catalogs, LDAP, RODC, RMS, certificate authorities, group policies, and security best practices, which will help you gain a

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better understanding of objects and components and how they can be used effectively. We will also cover AD Domain Services and Federation Services for Windows Server 2016 and all their new features. Last but not least, you will learn how to manage your identity infrastructure for a hybrid-cloud setup. All this will help you design, plan, deploy, manage operations on, and troubleshoot your enterprise identity infrastructure in a secure, effective manner. Furthermore, I will guide you through automating administrative tasks using PowerShell cmdlets. Toward the end of the book, we will cover best practices and troubleshooting techniques that can be used to improve security and performance in an identity infrastructure. Style and approach This step-by-step guide will help you master the core functionalities of Active Directory services using Microsoft

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Server 2016 and PowerShell, with real-world best practices at the end.

An authoritative guide to investigating high-technology crimes Internet crime is seemingly ever on the rise, making the need for a comprehensive resource on how to investigate these crimes even more dire This professional-level book--aimed at law enforcement personnel, prosecutors, and corporate investigators--provides you with the training you need in order to acquire the sophisticated skills and software solutions to stay one step ahead of computer criminals. Specifies the techniques needed to investigate, analyze, and document a criminal act on a Windows computer or network Places a special emphasis on how to thoroughly investigate criminal activity and now just perform the initial response Walks you through ways to present technically complicated material in simple terms that

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will hold up in court Features content fully updated for Windows Server 2008 R2 and Windows 7 Covers the emerging field of Windows Mobile forensics Also included is a classroom support package to ensure academic adoption, Mastering Windows Network Forensics and Investigation, 2nd Edition offers help for investigating high-technology crimes.

Enhance Windows security and protect your systems and servers from various cyber attacks Key Features Protect your device using a zero-trust approach and advanced security techniques Implement efficient security measures using Microsoft Intune, Configuration Manager, and Azure solutions Understand how to create cyber-threat defense solutions effectively Book Description Are you looking for effective ways to protect Windows-based systems from being compromised by unauthorized users? Mastering Windows Security and

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Hardening is a detailed guide that helps you gain expertise when implementing efficient security measures and creating robust defense solutions. We will begin with an introduction to Windows security fundamentals, baselining, and the importance of building a baseline for an organization. As you advance, you will learn how to effectively secure and harden your Windows-based system, protect identities, and even manage access. In the concluding chapters, the book will take you through testing, monitoring, and security operations. In addition to this, you'll be equipped with the tools you need to ensure compliance and continuous monitoring through security operations. By the end of this book, you'll have developed a full understanding of the processes and tools involved in securing and hardening your Windows environment. What you will learn

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Understand baselining and learn the best practices for building a baseline Get to grips with identity management and access management on Windows-based systems Delve into the device administration and remote management of Windows-based systems Explore security tips to harden your Windows server and keep clients secure Audit, assess, and test to ensure controls are successfully applied and enforced Monitor and report activities to stay on top of vulnerabilities Who this book is for This book is for system administrators, cybersecurity and technology professionals, solutions architects, or anyone interested in learning how to secure their Windows-based systems. A basic understanding of Windows security concepts, Intune, Configuration Manager, Windows PowerShell, and Microsoft Azure will help you get the best out of this book.



Microsoft Windows Server 2008 R2: The Administrators Essential Reference introduces the Windows Server 2008 R2, which is Microsofts flagship server operating systems latest release. The book explores its features; describes differences between the available editions; and discusses its deployment. After introducing Windows Server 2008 R2, the book explains its installation and configuration processes followed by its networking. It also examines different features, such as the active directory, internet information services 7.5, Hyper-V, and PowerShell V2. It discusses securing Windows Server 2008 R2 files and its print services, remot desktop services, high-availability and recovery features, and monitoring and troubleshooting; in addition, their delta changes are discussed in the final chapter. The book also explores the features that influence both Windows Server 2008 R2

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and Windows 7. These features allow the server operating system to work with Windows 7. One feature is the BranchCache, which offers users who open files across a Wide Area Network a better end-user experience by caching copy in the branch office when a document or intranet Web site is opened for the first time. Another feature is DirectAccess, which is the new remote connectivity solution for Windows networks. Features information on how to plan, deploy, and administrate Windows Server 2008 R2 using best practice guidance Provides in-depth coverage of Hyper-V, DirectAccess, Remote Desktop Services, Active Directory, and BranchCache Includes Delta Changes to allow experienced administrators to quickly gain insight to changes between Windows Server 2008 and Windows Server 2008 R2 Designing, Deploying, and Running Active

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Directory

Active Directory For Dummies

Mastering Microsoft Windows Server  
2008 R2

Windows Server 2012 Hyper-V

Installation and Configuration Guide

Windows Server 2008 Active Directory,  
Configuring

**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**

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security pro and professor who trains aspiring system administrators, this book covers the broad range of topics a system administrator needs to know to run Windows Server 2019, including how to install, configure, and secure a system. This book includes coverage of:

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

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**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.**

**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

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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

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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,



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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. Find in-depth coverage of general networking concepts and basic instruction on Windows Server 2008 installation and management including active directory, DNS, Windows storage, and TCP/IP and IPv4 networking basics in Mastering

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Windows Server 2008

Networking Foundations.

One of three new books by best-selling author Mark Minasi, this guide explains what servers do, how basic networking works (IP basics and DNS/WINS basics), and the fundamentals of the under-the-hood technologies that support staff must understand. Learn how to install Windows Server 2008 and build a simple network, security concepts, and basic Windows Server administration.

If you're curious, but

hesitant, about finding  
your way around

Microsoft's new Windows  
Server 2008, Windows  
Server 2008 For Dummies is  
the book for you. This  
friendly reference shows  
you everything you need to  
know – from installation  
and deployment to building  
and running a Windows  
Server 2008 network.

Server-based networking  
really is a big deal, and  
this 100% plain-English  
guide helps you make the  
most of it. You'll find  
out about Windows Server  
2008's important  
functions, capabilities

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and requirements; develop a network implementation plan; take a step-by-step walkthrough of the installation process; and get valuable tips on how to boost your bandwidth beyond belief! Before you know it, you'll be configuring connections to the Universe, working with active directory, and treating domains and controllers like old pals. Discover how to: Build and connect your network Install and configure Windows Server 2008 Set up and manage directory services Manage users and

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groups Install and manage  
print servers Secure your  
network Troubleshoot  
active networks Plan for  
installing Active  
Directory Proclaim and  
manage your own domain  
Resolve names between  
TCP/IP and NetBIOS Manage  
shares, permissions, and  
more Develop and implement  
a regular backup protocol  
Windows Server 2008 For  
Dummies may be easy-going,  
but it's simply packed  
with need-to-know stuff  
that will send you diving  
into Windows Server 2008  
experience just for the  
fun of it. So start now!

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**Mastering Windows Server  
2016**

**Mastering Windows Server  
2019**

**Windows Server 2019  
Cookbook**

**The complete guide for IT  
professionals to install  
and manage Windows Server  
2019 and deploy new  
capabilities, 2nd Edition**

**Design, deploy, and  
protect Active Directory**

**Domain Services for  
Windows Server 2022**

**Conquer Windows Server  
2019—from the inside out!**

**Dive into Windows Server  
2019—and really put your  
Windows Server expertise to**

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work. Focusing on Windows Server 2019's most powerful and innovative features, this supremely organized reference packs hundreds of timesaving solutions, tips, and workarounds—all you need to plan, implement, or manage Windows Server in enterprise, data center, cloud, and hybrid environments. Fully reflecting new innovations for security, hybrid cloud environments, and Hyper-Converged Infrastructure (HCI), it covers everything from cluster sets to Windows Subsystem

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for Linux. You'll discover how experts tackle today's essential tasks—and challenge yourself to new levels of mastery. •

Optimize the full Windows Server 2019 lifecycle, from planning and configuration through rollout and administration

- Leverage new configuration options including App

Compatibility Features on Demand (FOD) or Desktop Experience • Ensure fast,

reliable upgrades and migrations • Manage

Windows servers, clients, and services through



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Windows Admin Center • Seamlessly deliver and administer core DNS, DHCP, file, print, storage, and Internet services • Use the Storage Migration Service to simplify storage moves and configuration at the destination • Seamlessly integrate Azure IaaS and hybrid services with Windows Server 2019 • Improve agility with advanced container technologies, including container networking and integration into Kubernetes orchestration clusters • Deliver Active

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Directory identity, certificate, federation, and rights management services • Protect servers, clients, VMs, assets, and users with advanced Windows Server 2019 security features, from Just Enough Administration to shielded VMs and guarded virtualization fabrics • Monitor performance, manage event logs, configure advanced auditing, and perform backup/recovery Windows Server 2019 For Experienced Windows Server Users and IT Professionals

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- Your role: Experienced intermediate to-advanced level Windows Server user or IT professional •
- Prerequisites: Basic understanding of Windows Server procedures, techniques, and navigation
- A comprehensive and practical guide to Windows Server 2016
- About This Book In-depth coverage of new features of Windows Server 2016
- Gain the necessary skills and knowledge to design and implement Microsoft Server 2016 in enterprise environment
- Know how you can support your medium to

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large enterprise and leverage your experience in administering Microsoft Server 2016, A practical guide to administering Windows server 2016 Who This Book Is For The book is targeted at System Administrators and IT professionals who would like to design and deploy Windows Server 2016 (physical and logical) Enterprise infrastructure. Previous experience of Windows Server operating systems and familiarity with networking concepts is assumed. System administrators who are

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upgrading or migrating to Windows Server 2016 would also find this book useful. What You Will Learn Familiarize yourself with Windows Server 2016 ideology, the core of most datacenters running today New functions and benefits provided only by the new Windows Server 2016 Get comfortable working with Nanoserver Secure your network with new technologies in Server 2016 Harden your Windows Servers to help keep those bad guys out! Using new built-in integration for Docker with this latest

release of Windows Server 2016 Virtualize your datacenter with Hyper-V In Detail Windows Server 2016 is the server operating system developed by Microsoft as part of the Windows NT family of operating systems, developed concurrently with Windows 10. With Windows Server 2016, Microsoft has gotten us thinking outside of the box for what it means to be a system administration, and comes with some interesting new capabilities. These are exciting times to be or to

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become a server administrator! This book covers all aspects of administration level tasks and activities required to gain expertise in Microsoft Windows Server 2016. You will begin by getting familiar and comfortable navigating around in the interface. Next, you will learn to install and manage Windows Server 2016 and discover some tips for adapting to the new server management ideology that is all about centralized monitoring and configuration. You will deep dive into core

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Microsoft infrastructure technologies that the majority of companies are going to run on Server 2016. Core technologies such as Active Directory, DNS, DHCP, Certificate Services, File Services, and more. We will talk about networking in this new operating system, giving you a networking toolset that is useful for everyday troubleshooting and maintenance. Also discussed is the idea of Software Defined Networking. You will later walk through different aspects of certificate



administration in Windows Server 2016. Three important and crucial areas to cover in the Remote Access role -- DirectAccess, VPN, and the Web Application Proxy -- are also covered. You will then move into security functions and benefits that are available in Windows Server 2016. Also covered is the brand new and all-important Nano Server! We will incorporate PowerShell as a central platform for performing many of the functions that are discussed in this book,

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including a chapter dedicated to the new PowerShell 5.0. Additionally, you will learn about the new built-in integration for Docker with this latest release of Windows Server 2016. The book ends with a discussion and information on virtualizing your datacenter with Hyper-V. By the end of this book, you will have all the ammunition required to start planning for and implementing Windows Server 2016. Style and approach This book offers a practical and wide

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coverage of all features  
of brand new Microsoft  
Server 2016 along with  
tips on daily  
administration tasks.

The IT pro's must-have  
guide to Windows Server  
2016 Mastering Windows  
Server 2016 is a complete  
resource for IT  
professionals needing to  
get quickly up to date on  
the latest release.

Designed to provide  
comprehensive information  
in the context of real-  
world usage, this book  
offers expert guidance  
through the new tools and  
features to help you get

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Windows Server 2016 up and running quickly.

Straightforward discussion covers all aspects, including virtualization products, identity and access, automation, networking, security, storage and more, with clear explanations and immediately-applicable instruction. Find the answers you need, and explore new solutions as Microsoft increases their focus on security, software-defined infrastructure, and the cloud; new capabilities including containers and

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Nano Server, Shielded VMs, Failover Clustering, PowerShell, and more give you plenty of tools to become more efficient, more effective, and more productive. Windows Server 2016 is the ideal server for Windows 10 clients, and is loaded with new features that IT professionals need to know. This book provides a comprehensive resource grounded in real-world application to help you get up to speed quickly. Master the latest features of Windows Server 2016 Apply new tools in real-

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world scenarios Explore new capabilities in security, networking, and the cloud Gain expert guidance on all aspect of Windows Server 2016 migration and management System administrators tasked with upgrading, migrating, or managing Windows Server 2016 need a one-stop resource to help them get the job done. Mastering Windows Server 2016 has the answers you need, the practicality you seek, and the latest information to get you up to speed quickly. Complete Coverage of

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Windows XP Professional

The latest from the world's leading Windows authority Mark Minasi, Mastering Windows XP Professional is the premier resource for anyone installing, configuring, and administering Windows XP, whether as part of a corporate network or for home or small business use. Depend on it for step-by-step instruction in hundreds of key techniques--not to mention a thorough look at all of XP's new features and troubleshooting advice

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that will save you time, money, and countless headaches. Updates to this edition include new coverage for administrators on topics including Web and FTP servers, scripting, the Microsoft Management Console and Services, and security. Coverage Includes \*

- \* Using the new Start menu and Control Panel
- \* Setting up broadband Internet connections
- \* Setting up and configuring a peer-to-peer network
- \* Securing your PC and network from intruders
- \* Encrypting



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vital data \* Running programs designed for previous versions of Windows \* Transferring files and settings from one computer to another \* Sharing your desktop with remote users \* Connecting to remote computers using Remote Desktop Connection \* Using Windows Media Player 8 \* Communicating in real time using Windows Messenger \* Using Windows XP on Portable Computers \* Restoring your system to a previous configuration \* Preventing disaster; backing up and recovering data \* Using the Services

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and MMC administration tools Bonus Coverage: Windows XP Essential Skills Includes 96 pages of full-color visual, step-by-step instruction on the 57 most important Windows XP skills. In minutes, you'll learn how to burn a CD, set up an Internet connection, use XP's powerful System Restore feature, and much more. MCTS 70-640 Cert Guide MCITP Guide to Microsoft Windows Server 2008, Enterprise Administration (Exam #70-647) Windows Server 2019 Inside Out

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

Mastering Windows Server  
2012 R2

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Services installation Upgrading  
older domains Server settings and  
replication Global catalogs and  
operations masters Site management  
and data replication AD LDS, AD  
FS, and AD RMS roles Read-Only  
Domain Controller deployment  
User/group account management  
Trust relationships, including  
troubleshooting Group Policy  
Object configuration, usage, and  
hierarchies Software deployment via  
group policies Account and audit  
policy management Monitoring and  
maintenance Certificate Services  
installation, configuration, and  
management Test your knowledge,  
build your confidence, and succeed!  
Packed with visuals to help you

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learn fast Dozens of troubleshooting scenarios Real-world MCTS 70-640 prep advice from experts Easy-to-use exam preparation task lists From Don Poulton, professional Microsoft technology consultant, IT training expert, and best-selling exam guide author Don Poulton (A+, Network+, Security+, MCSA, MCSE) is an independent consultant who has been involved with computers since the days of 80-column punch cards. He has consulted extensively with training providers, preparing training and exam prep materials for Windows technologies. He has written or contributed to several Que titles, including MCTS 70-680 Cert Guide: Microsoft® Windows 7,

Configuring; Security+ Lab Manual;  
and MCSA/MCSE 70-299 Exam

Cram 2. CD Includes Complete  
Sample Exam Detailed explanations  
of correct and incorrect answers

Multiple test modes Random  
questions and order of answers

Shelving Category:

Certification/Microsoft

The Lab Manual for MCITP Guide  
to Microsoft? Windows Server?

2008 Enterprise Administration  
(Exam #70-647) prepares the reader  
with the hands-on instruction

necessary to learn the real-world  
skills to administer a Microsoft

Windows Server 2008 network and  
to pursue industry certification. This  
book includes hands-on labs that

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focus on the planning and design of networks featuring servers running Windows Server 2008. These labs offer a hands-on approach to learning that is a key component of the Microsoft Windows Server 2008 MCTS exams.

A bestselling Exchange Server guide, updated for the 2016 release *Mastering Microsoft Exchange Server 2016* is the gold-standard reference for system administrators and first-time users alike. Fully updated to align with the latest release, this expert-led guide provides comprehensive coverage and easy-to-follow tutorials for all aspects of Exchange Server installation, configuration, and

management. Whether you're migrating from an earlier version or installing Exchange Server for the first time, this book gives you quick access to the answers you need. Step-by-step instructions walk you through planning and design, installation, administration and management, maintenance, and more, so you can get up to speed quickly and get back to work. With a focus on the hands-on details, the Microsoft Certified Masters author team provides practical insight and invaluable guidance on every aspect of Exchange Server 2016, from mastering the basics to leveraging new features. Microsoft Exchange allows access to e-mail, voicemail,



and calendars at any time, from almost any device. The 2016 release is designed specifically to appeal to enterprises; if you've been tasked with the implementation, this guide has the information you need. Get up to speed with the latest changes and features Understand server configurations, requirements, installation, and migration Manage mailboxes, groups, connectivity, and the client access server Troubleshoot common issues efficiently and effectively Exchange Server 2016 shifts even more control to the user, freeing administrators to perform more critical tasks. Beefed-up architecture and more centralized functions have eased configuration

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and upgrades, and a robust cloud implementation is expected to draw enterprises sooner rather than later. Systems administrators need to become familiar with the latest changes, and Mastering Microsoft Exchange Server 2016 is the ultimate reference and tutorial. Efficiently manage and administer enterprise environments using Microsoft Windows Server 2019 Key Features Leverage Windows Server 2019 to improve enterprise workflow efficiency and increase productivity Deliver enterprise-grade cloud services that can be applied in your infrastructure Get up and running with PowerShell and the all-new Hyper-V improvements Book

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Description Do you want to get up and running with essential administrative tasks in Windows Server 2019? This second edition of the Windows Server 2019 Cookbook is packed with practical recipes that will help you do just that. The book starts by taking you through the basics that you need to know to get a Windows Server operating system working, before teaching you how to navigate through daily tasks using the upgraded graphical user interface (GUI). You'll then learn how to compose an optimal Group Policy and perform task automation with PowerShell scripting. As you advance, you'll get to grips with

faster app innovation, improved Windows security measures, and hybrid cloud environments. After you've explored the functions available to provide remote network access to your users, you'll cover the new Hyper-V enhancements. Finally, this Windows Server book will guide you through practical recipes relating to Azure integration and important tips for how to manage a Windows Server environment seamlessly. By the end of this book, you'll be well-versed with Windows Server 2019 essentials and have the skills you need to configure Windows services and implement best practices for securing a Windows Server

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environment. What you will learn  
Get up and running with Windows Server 2019's new features  
Install, configure, and administer Windows Server 2019 effectively  
Configure the server to host any enterprise application  
Discover ways to manage a server without a GUI  
Safeguard your virtual machines in the event of server failure  
Explore new ways to integrate Windows Server with Microsoft Azure  
Deploy Windows containers using Docker  
Who this book is for  
This Windows Server 2019 book is for system administrators and IT professionals who have basic experience in Windows environments and are

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interested in acquiring the skills and knowledge needed to manage and maintain the core infrastructure required for a Windows Server 2019 environment.

Over 100 recipes to effectively configure networks, manage security, and administer workloads,  
2nd Edition

Windows Server 2008 Inside Out  
Mastering Active Directory  
Mastering Windows® 2000 Server  
Optimizing and Troubleshooting  
Hyper-V Networking

*This scenario-focused title provides concise technical guidance and insights for troubleshooting and optimizing networking with*

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

*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*



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*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*

*DesktopInfrastructure (VDI),  
and other topics Help make  
your Hyper-V virtualization  
solution a success  
withWindows Server 2012  
Hyper-V Installation and  
ConfigurationGuide.*

*A complete, winning  
approach to the number one  
small business solution Do  
you have 75 or fewer users  
or devices on your small-  
business network? Find out  
how to integrate everything  
you need for your mini-  
enterprise with Microsoft's  
new Windows Server 2008  
Small Business Server, a  
custom collection of server*

*and management technologies designed to help small operations run smoothly without a giant IT department. This comprehensive guide shows you how to master all SBS components as well as handle integration with other Microsoft technologies. Focuses on Windows Server 2008 Small Business Server, an integrated server solution for small business, and part of the new Windows Essential Server Solutions Covers the essentials of SBS deployment and setup, as well as integration with*

*Windows Server 2008, Microsoft SQL Server 2008, Microsoft Exchange Server 2007, Windows SharePoint Services 3.0, Windows Update Services 3.0, Web Server technologies, and Windows Live OneCare for Server Walks you step-by-step through instructions and practical applications and provides plenty of real-world examples to reinforce concepts Get the very most out of Windows Server 2008 SBS with this comprehensive guide.*

*Fully updated for Windows Server 2012 R2! Prepare for*

*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*

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*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.*

*Mastering Windows Network  
Forensics and Investigation  
The Administrator's Essential  
Reference*

*Mastering Python  
Networking*