

Microsoft

# MCSA/MCSE

Exam 70-291

致胜  
经典

2

Second Edition

(第二版)

Implementing, Managing, and  
Maintaining a Microsoft

WINDOWS  
SERVER™ 2003

NETWORK  
INFRASTRUCTURE

执行、管理和维护网络设备

J.C. Mackin and Ian McLean

Self-Paced

# Training Kit

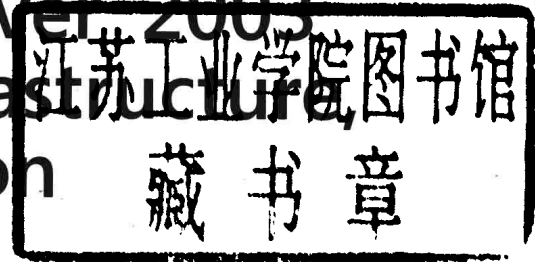
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MCSA/MCSE Self-Paced Training Kit (Exam 70-291):

**Implementing, Managing,  
and Maintaining a Microsoft®  
Windows Server™ 2003  
Network Infrastructure**  
**Second Edition**



*J.C. Mackin and Ian McLean*

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Microsoft Windows Server 2003 执行、管理和维护网络设备(第二版)**

[美] J·C·麦金 艾恩·麦克林 著

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## **About the Authors**

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J.C. Mackin (MCSA, MCSE, MCT) is an author, editor, consultant, and trainer who has been working with Microsoft networks since 1997. He holds a master's degree in telecommunications and network management.

### **Ian McLean**

Ian McLean (MCSE, MCDBA, MCT) has over 35 years of experience in industry, commerce, and education. He started his career as an electronics engineer before going into distance learning and then education as a university professor. He currently runs his own consultancy company. Ian has written 15 books, plus many papers and technical articles. He has been working with networks since the early 1980s and with Microsoft network operating systems since 1997.

# About This Book

Welcome to *MCSA/MCSE Self-Paced Training Kit (Exam 70-291): Implementing, Managing, and Maintaining a Microsoft Windows Server 2003 Network Infrastructure*, Second Edition. This book prepares you for the 70-291 exam by teaching you how to configure, manage, and troubleshoot various aspects of a Microsoft Windows Server 2003 Service Pack 1 (SP1) network infrastructure. Each chapter walks you through the hands-on deployment and management of these various aspects, including the network addressing, name resolution, routing, remote access, and security. After you read this book, answer the associated questions, and perform all the exercises, you will have gained a thorough understanding of the essential components supporting Windows Server 2003 networks.

## Intended Audience

This book was developed for information technology (IT) professionals who plan to take the related Microsoft Certified Professional (MCP) exam 70-291, as well as for IT professionals who implement, administer, and support Windows Server 2003 networks.



**Note** Exam skills are subject to change without prior notice and at the sole discretion of Microsoft.

## Prerequisites

This training kit requires that students meet the following prerequisites:

- Eighteen months of professional experience working with Windows networks
- Familiarity with networking concepts equivalent to that of a CompTIA Network+ certification

## About the CD-ROM

This book includes a companion CD-ROM. This CD-ROM contains a variety of informational aids to complement the book's content:

- An electronic version of this book (eBook). For information about using the eBook, see the section entitled "The eBook" later in this introduction.
- The Microsoft Press Readiness Review Suite Powered by MeasureUp. This suite of practice tests and objective reviews contains questions of varying degrees of

complexity and offers multiple testing modes. You can assess your understanding of the concepts presented in this book and use the results to develop a learning plan that meets your needs.

- A demo and a simulation that introduce you to Shadow Copies.
- A free demo: “Answering Simulation Questions.”
- Sample chapters from several Microsoft Press books that give you additional information about Windows Server 2003 and introduce you to other resources that are available from Microsoft Press.
- Lab files that you use to complete exercises in this training kit.
- An overview of Windows Server 2003 Service Pack 1 and Windows Server 2003 R2.
- Bonus material including white papers and links to a free e-learning course and clinic.

Two additional CD-ROMs contain a 180-day Evaluation Edition of Microsoft Windows Server 2003, Enterprise Edition, with SP1 and R2. You will use SP1 to complete this training kit. R2 is for you reference only; do not install R2 until you have completed the training kit exercises.



**Note** The 180-day Evaluation Edition provided with this training kit is not the full retail product and is provided only for the purposes of training and evaluation. Microsoft Technical Support does not support this Evaluation Edition.

For additional support information regarding this book and the supplemental CD-ROM (including answers to commonly asked questions about installation and use), visit the Microsoft Press Technical Support Web site at <http://www.microsoft.com/mspress/support/>. You can also e-mail [tkiput@microsoft.com](mailto:tkiput@microsoft.com) or send a letter to Microsoft Press, Attn: Microsoft Press Technical Support, One Microsoft Way, Redmond, WA 98052-6399.

## Features of This Book

This book has two parts. Use Part 1 to learn at your own pace and practice what you’ve learned with practical exercises. Part 2 contains questions and answers that you can use to test yourself on what you’ve learned.

### Part 1: Learn at Your Own Pace

Each chapter identifies the exam objectives that are covered in the chapter, provides an overview of why the topics matter by identifying how the information applies in the real world, and lists any prerequisites that must be met to complete the lessons presented in the chapter.

The chapters contain sets of lessons. Lessons contain practices that include one or more hands-on exercises. These exercises give you an opportunity to use the skills being presented or explore the part of the application being described. Each lesson also has a set of review questions to test your knowledge of the material covered in the lesson. The answers to the questions are found in the “Questions and Answers” section at the end of each chapter.

After the lessons, you are given an opportunity to apply what you’ve learned in a case scenario exercise. In this exercise, you work through a multistep solution for a realistic case scenario. You are also given an opportunity to work through a troubleshooting lab that explores difficulties you might encounter when applying what you’ve learned in this book on the job.

Each chapter ends with a summary of key concepts, as well as a short section listing key topics and terms you need to know before taking the exam, summarizing the key points with a focus on the exam.



### **Real World Helpful Information**

You will find sidebars like this one that contain related information you might find helpful. “Real World” sidebars contain specific information gained through the experience of IT professionals just like you.

## **Part 2: Prepare for the Exam**

Part 2 helps to familiarize you with the types of questions that you will encounter on the MCP exam. By reviewing the objectives and the sample questions, you can focus on the specific skills that you need to improve before taking the exam.



**See Also** For a complete list of Microsoft certification exams and their related objectives, go to <http://www.microsoft.com/learning/mcp/default.asp>.

Part 2 is organized by the exam’s objectives. Each chapter covers one of the primary groups of objectives, called *Objective Domains*. Each chapter lists the tested skills you need to master to answer the exam questions and includes a list of further readings to help you improve your ability to perform the tasks or skills specified by the objectives.

In each Objective Domain, you will find the related objectives that are covered on the exam. Each objective provides you with several practice exam questions. Explanations of each correct and incorrect answer accompany the answers.



**On the CD** These questions are also available on the companion CD as a practice test.

## Informational Notes

The following types of reader aids appear throughout the training kit:

- **Tip** contains methods of performing a task more quickly or in a not-so-obvious way.
- **Important** contains information that is essential to completing a task.
- **Note** contains supplemental information.
- **Caution** contains valuable information about possible loss of data; be sure to read this information carefully.
- **Warning** contains critical information about possible physical injury; be sure to read this information carefully.
- **See Also** contains references to other sources of information.
- **Planning** contains hints and useful information that should help you to plan the implementation.
- **Security Alert** highlights information you need to know to maximize security in your work environment.
- **Exam Tip** flags information you should know before taking the certification exam.
- **Off the Record** contains practical advice about the real-world implications of information presented in the lesson.

## Notational Conventions

The following conventions are used throughout this book.

- Characters or commands that you type appear in **bold** type.
- *Italic* in syntax statements indicates placeholders for variable information. *Italic* is also used for book titles, URLs, and key words and terms when they are first introduced.
- Names of files and folders appear in Title caps, except when you are to type them directly. Unless otherwise indicated, you can use all lowercase letters when you type a filename in a dialog box or at a command prompt.
- Filename extensions appear in all lowercase.
- Acronyms appear in all uppercase.



- Monospace type represents code samples, examples of screen text, or entries that you might type at a command prompt or in initialization files.
- Square brackets [ ] are used in syntax statements to enclose optional items. For example, [filename] in command syntax indicates that you can choose to type a filename with the command. Type only the information within the brackets, not the brackets themselves.
- Braces { } are used in syntax statements to enclose required items. Type only the information within the braces, not the braces themselves.

## Keyboard Conventions

- A plus sign (+) between two key names means that you must press those keys at the same time. For example, “Press ALT+TAB” means that you hold down ALT while you press TAB.
- A comma (,) between two or more key names means that you must press each of the keys consecutively, not together. For example, “Press ALT, F, X” means that you press and release each key in sequence. “Press ALT+W, L” means that you first press ALT and W at the same time, and then release them and press L.

## Getting Started

This training kit contains hands-on exercises to help you learn about deploying, managing, and troubleshooting a network infrastructure. Use this section to prepare your self-paced training environment.

To complete some of these procedures, you must have two networked computers and a means of connecting both computers to the Internet. Both computers must also be capable of running Windows Server 2003 SP1.



**Caution** Many of these exercises require you to configure settings that will affect addressing and other features your network. For this reason, it is not recommended that you perform these exercises on computers that are connected to a larger network.

## Hardware Requirements

Each computer must have the following minimum configuration. All hardware should meet the requirements listed at <http://www.microsoft.com/windowsserver2003/evaluation/sysreqs/default.mspx>.

- Minimum 133-MHz processor; 550-MHz recommended; up to eight processors supported on one server

- 128 MB memory (256 MB is recommended; 64 GB maximum)
- Disk space: 1.25 to 2 GB of available hard disk space
- Display monitor capable of 800 × 600 resolution or higher
- CD-ROM or DVD-ROM drive
- Microsoft Mouse or compatible pointing device

## Software Requirements

The following software is required to complete the procedures in this training kit:

- Windows Server 2003, Enterprise Edition, SP1 (A 180-day Evaluation Edition of Windows Server 2003, Enterprise Edition, with SP1 and R2 is included on the CD-ROM.)



**Caution** The 180-day Evaluation Edition provided with this training kit is not the full retail product and is provided only for the purposes of training and evaluation. Microsoft Technical Support does not support this Evaluation Edition. For additional support information regarding this book and the CD-ROMs (including answers to commonly asked questions about installation and use), visit the Microsoft Press Technical Support Web site at <http://mspress.microsoft.com/learning/support/books/>. You can also e-mail [tkinput@microsoft.com](mailto:tkinput@microsoft.com) or send a letter to Microsoft Press, Attn: Microsoft Press Technical Support, One Microsoft Way, Redmond, WA 98052-6399.

## Setup Instructions

Set up your computer according to the manufacturer's instructions. For the exercises that require networked computers, you need to make sure the computers can communicate with each other. Once the computers are physically networked, install Windows Server 2003 SP1 on each computer.



**Important** The Evaluation Edition software provided with this training includes Service Pack 1. Install Service Pack 1 (CD1) to complete the exercises in this training kit. Do not install R2 (CD2) until you have completed the exercises. This version of R2 is for your reference only. It is not covered in the 70-291 exam and therefore is not covered in this training kit.

Use the following table during installation to help you configure each computer when the Windows Setup Wizard is run:

Windows Setup Wizard Page	Setting for First Computer	Setting for Second Computer
Regional And Language Options	Default (English).	Default (English).
Personalize Your Software	Type your name and organization.	Type your name and organization.
Your Product Key	Type the product key provided with the Windows Server 2003 SP1 CD-ROM.	Type the product key provided with the Windows Server 2003 SP1 CD-ROM.
Licensing Modes	Default.	Default.
Computer Name And Administrator Password	Computer Name: Computer1 Administrator Password: (Type a strong password of your choice.)	Computer Name: Computer2 Administrator Password: (Type a strong password of your choice, preferably distinct from that of the first computer.)
Modem Dialing Information	Default.	Default.
Date And Time Settings	Your date, time, and time zone.	Your date, time, and time zone.
Networking Settings	Default (Typical Settings).	Default (Typical Settings).
Workgroup Or Computer Domain	Default (workgroup named WORKGROUP).	Default (workgroup named WORKGROUP).



**Caution** In general, you should not perform these configurations on computers that are part of a larger network. However, if you do, you *must* verify with your network administrator that the addresses, computer names, domain name, and other settings used do not conflict with network operations.

## The Microsoft Press Readiness Review Suite

The CD-ROM includes a practice test made up of 300 sample exam questions and an objective review with an additional 125 questions. Use the practice test to reinforce your learning and identify areas in which you need to gain more experience before taking the exam.

### To install the practice test and object review

1. Insert the companion CD-ROM into your CD-ROM drive.



**On the CD** If AutoRun is disabled on your machine, refer to the Readme.txt file on the CD-ROM.

2. Click Readiness Review Suite on the user interface menu and follow the prompts.

## The eBook

The CD-ROM includes an electronic version of this training kit, as well as bonus material that includes sample chapters from several Microsoft Press books and relevant white papers. The eBook and bonus materials are in PDF format and can be viewed using Adobe Acrobat Reader. For more information, see the Readme.txt file included in the root folder of the companion CD-ROM.

## To use the eBook

1. Insert the companion CD-ROM into your CD-ROM drive.



**On the CD** If AutoRun is disabled on your machine, refer to the Readme.txt file on the CD-ROM.

2. Click eBook on the user interface menu. You can also review any of the other PDFs that are provided for your use.

## The Microsoft Certified Professional Program

Microsoft certifications provide the best method to prove your command of current Microsoft products and technologies. The exams and corresponding certifications are developed to validate your mastery of critical competencies as you design and develop, or implement and support, solutions with Microsoft products and technologies. Computer professionals who become Microsoft-certified are recognized as experts and are sought after industry-wide. Certification brings a variety of benefits to the individual and to employers and organizations.



**See Also** For a full list of Microsoft certifications, go to <http://www.microsoft.com/learning/itpro/default.asp>.

## Technical Support

Every effort has been made to ensure the accuracy of this book and the contents of the companion CD-ROM. If you have comments, questions, or ideas regarding this book or

the companion CD-ROM, please send them to Microsoft Press using either of the following methods:

E-mail: [tkinput@microsoft.com](mailto:tkinput@microsoft.com)  
 Postal Mail: Microsoft Press  
 Attn: *MCSA/MCSE Self-Paced Training Kit (Exam 70-290): Managing and Maintaining a Microsoft Windows Server 2003 Environment*, Second Edition, Editor  
 One Microsoft Way  
 Redmond, WA 98052-6399

For additional support information regarding this book and the CD-ROM (including answers to commonly asked questions about installation and use), visit the Microsoft Press Technical Support Web site at [http:// www.microsoft.com/learning/support/books/](http://www.microsoft.com/learning/support/books/). To connect directly to the Microsoft Press Knowledge Base and enter a query, visit <http://www.microsoft.com/mspress/support/search.asp>. For support information regarding Microsoft software, please connect to <http://support.microsoft.com>.

## Evaluation Edition Software Support

The 180-day Evaluation Edition provided with this training kit is not the full retail product and is provided only for the purposes of training and evaluation. Microsoft Technical Support does not support this Evaluation Edition.



**Caution** The Evaluation Edition of Microsoft Windows Server 2003, Enterprise Edition, with SP1 and R2 that is included with this book should not be used on a primary work computer. The Evaluation Edition is unsupported. For online support information relating to the full version of Microsoft Windows Server 2003, Enterprise Edition, R2 that *might* also apply to the Evaluation Edition, you can connect to <http://support.microsoft.com>.

Information about any issues relating to the use of this Evaluation Edition with this training kit is posted to the Support section of the Microsoft Press Web site (<http://www.microsoft.com/learning/support/books/>). For information about ordering the full version of any Microsoft software, please call Microsoft Sales at (800) 426-9400 or visit [http:// www.microsoft.com](http://www.microsoft.com).

## **Microsoft Press Online: Resources for Microsoft Windows Server 2003 Training Kits, Second Edition**

This site provides you with resources that work with your training kit to keep you current and help you prepare for one of the core MCSA (Microsoft Certified Systems Administrator) or MCSE (Microsoft Certified Systems Engineer) certification exams.

Go to <http://www.microsoft.com/learning/books/windowsserver2003trainingkits/> to find:

- Updated information for your training kit, when available
- Sample content from additional Microsoft Press books
- A brief survey to provide feedback about your books
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At the site, you may also join the Microsoft Press Insiders' club, with the following additional benefits:

- Microsoft Press book in searchable e-Reference form
- Discounts on popular Microsoft Press books
- Updates on changes to the certification exam covered by this Training Kit, when available

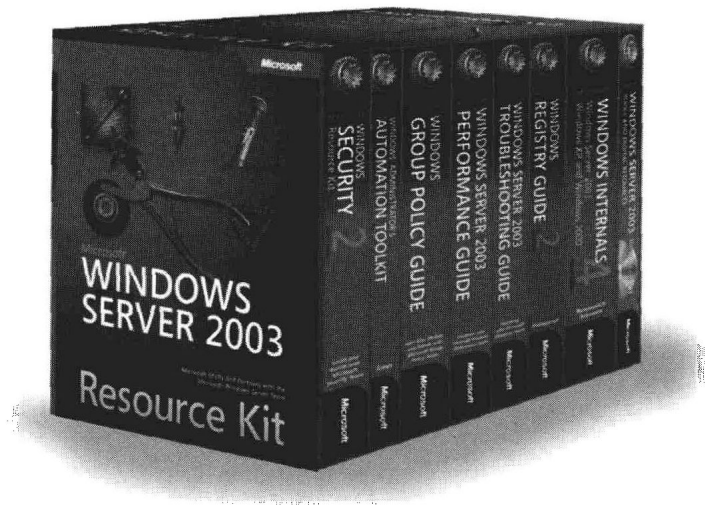
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Visit <http://www.microsoft.com/learning/books/windowsserver2003trainingkits/>.

# Microsoft Windows Server 2003 Resource Kit

## The *definitive* resource

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Get the in-depth technical information and tools you need to manage and optimize Microsoft® Windows Server™ 2003—with expert guidance and best practices from Microsoft MVPs, leading industry consultants, and the Microsoft Windows Server team. This official *Resource Kit* delivers seven comprehensive volumes, including:

- **Microsoft Windows® Security Resource Kit, Second Edition**
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- **Microsoft Windows Group Policy Guide**
- **Microsoft Windows Server 2003 Performance Guide**
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You'll find 300+ timesaving tools and scripts, an eBook of the entire *Resource Kit*, plus five bonus eBooks. It's everything you need to help maximize system performance and reliability—and help reduce ownership and support costs.

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Microsoft MVPs and Partners with the Microsoft Windows Server Team

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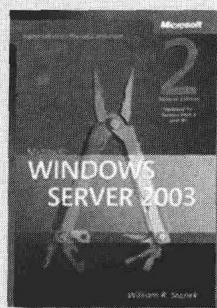
# Additional Windows (R2) Resources for Administrators

*Published and Forthcoming Titles from Microsoft Press*

## Microsoft® Windows Server™ 2003 Administrator's Pocket Consultant, Second Edition

William R. Stanek • ISBN 0-7356-2245-0

Here's the practical, pocket-sized reference for IT professionals supporting Microsoft Windows Server 2003—fully updated for Service Pack 1 and Release 2. Designed for quick referencing, this portable guide covers all the essentials for performing everyday system administration tasks. Topics include managing workstations and servers, using Active Directory® directory service, creating and administering user and group accounts, managing files and directories, performing data security and auditing tasks, handling data back-up and recovery, and administering networks using TCP/IP, WINS, and DNS, and more.



## MCSE Self-Paced Training Kit (Exams 70-290, 70-291, 70-293, 70-294): Microsoft Windows Server 2003 Core Requirements, Second Edition

Holme, Thomas, Mackin, McLean, Zacker, Spealman, Hudson, and Craft • ISBN 0-7356-2290-6

The Microsoft Certified Systems Engineer (MCSE) credential is the premier certification for professionals who analyze the business requirements and design and implement the infrastructure for business solutions based on the Microsoft Windows Server 2003 platform and Microsoft Windows Server System—now updated for Windows Server 2003 Service Pack 1 and R2. This all-in-one set provides in-depth preparation for the four required networking system exams. Work at your own pace through the lessons, hands-on exercises, troubleshooting labs, and review questions. You get expert exam tips plus a full review section covering all objectives and sub-objectives in each study guide. Then use the Microsoft Practice Tests on the CD to challenge yourself with more than 1500 questions for self-assessment and practice!

## MCSA/MCSE Self-Paced Training Kit (Exam 70-290): Managing and Maintaining a Microsoft Windows Server 2003 Environment, Second Edition

Dan Holme and Orin Thomas • ISBN 0-7356-2289-2

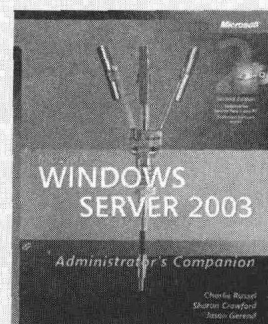
## MCSA/MCSE Self-Paced Training Kit (Exam 70-291): Implementing, Managing, and Maintaining a Microsoft Windows Server 2003 Network Infrastructure, Second Edition

J.C. Mackin and Ian McLean • ISBN 0-7356-2288-4

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## MCSE Self-Paced Training Kit (Exam 70-293): Planning and Maintaining a Microsoft Windows Server 2003 Network Infrastructure, Second Edition

Craig Zacker • ISBN 0-7356-2287-6

## MCSE Self-Paced Training Kit (Exam 70-294): Planning, Implementing, and Maintaining a Microsoft Windows Server 2003 Active Directory® Infrastructure, Second Edition

Jill Spealman, Kurt Hudson, and Melissa Craft • ISBN 0-7356-2286-8

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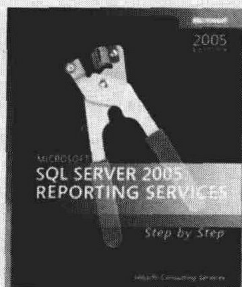
# Additional SQL Server Resources for Administrators

Published and Forthcoming Titles from Microsoft Press

## Microsoft® SQL Server™ 2005 Reporting Services *Step by Step*

Hitachi Consulting Services • ISBN 0-7356-2250-7

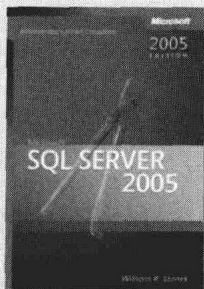
SQL Server Reporting Services (SRS) is Microsoft's customizable reporting solution for business data analysis. It is one of the key value features of SQL Server 2005: functionality more advanced and much less expensive than its competition. SRS is powerful, so an understanding of how to architect a report, as well as how to install and program SRS, is key to harnessing the full functionality of SQL Server. This procedural tutorial shows how to use the Report Project Wizard, how to think about and access data, and how to build queries. It also walks the reader through the creation of charts and visual layouts to enable maximum visual understanding of the data analysis. Interactivity (enhanced in SQL Server 2005) and security are also covered in detail.



## Microsoft SQL Server 2005 Administrator's Pocket Consultant

William R. Stanek • ISBN 0-7356-2107-1

Here's the utterly practical, pocket-sized reference for IT professionals who need to administer, optimize, and maintain SQL Server 2005 in their organizations. This unique guide provides essential details for using SQL Server 2005 to help protect and manage your company's data—whether automating tasks; creating indexes and views; performing backups and recovery; replicating transactions; tuning performance; managing server activity; importing and exporting data; or performing other key tasks. Featuring quick-reference tables, lists, and step-by-step instructions, this handy, one-stop guide provides fast, accurate answers on the spot, whether you're at your desk or in the field!



## Microsoft SQL Server 2005 Administrator's Companion

Marci Frohock Garcia, Edward Whalen, and Mitchell Schroeter • ISBN 0-7356-2198-5

*Microsoft SQL Server 2005 Administrator's Companion* is the comprehensive, in-depth guide that saves time by providing all the technical information you need to deploy, administer, optimize, and support SQL Server 2005. Using a hands-on, example-rich approach, this authoritative, one-volume reference book provides expert advice, product information, detailed solutions, procedures, and real-world troubleshooting tips from experienced SQL Server 2005 professionals. This expert guide shows you how to design high-availability database systems, prepare for installation, install and configure SQL Server 2005, administer services and features, and maintain and troubleshoot your database system. It covers how to configure your system for your I/O system and model and optimize system capacity. The expert authors provide details on how to create and use defaults, constraints, rules, indexes, views, functions, stored procedures, and triggers. This guide shows you how to administer reporting services, analysis services, notification services, and integration services. It also provides a wealth of information on replication and the specifics of snapshot, transactional, and merge replication. Finally, there is expansive coverage of how to manage and tune your SQL Server system, including automating tasks, backup and restoration of databases, and management of users and security.

## Microsoft SQL Server 2005 Analysis Services *Step by Step*

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