

Microsoft

MCSE

Exam 70-294

致胜  
经典

2

Second Edition

(第二版)

Planning, Implementing, and  
Maintaining a Microsoft

WINDOWS  
SERVER™ 2003  
ACTIVE DIRECTORY®  
INFRASTRUCTURE

设备计划、执行和管理

Jill Spealman, Kurt Hudson, and  
Melissa Craft with Anthony Steven of Content Master

Self-Paced

Training Kit

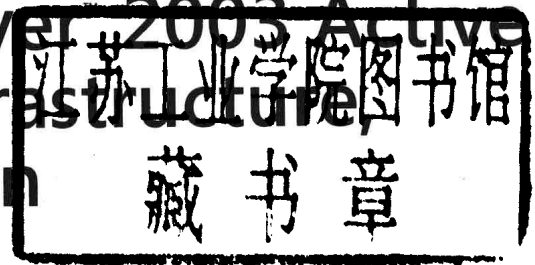
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MCSE Self-Paced Training Kit (Exam 70-294):

**Planning, Implementing, and  
Maintaining a Microsoft®  
Windows Server 2003 Active  
Directory® Infrastructure  
Second Edition**



*Jill Spealman, Kurt Hudson, and  
Melissa Craft with Anthony Steven  
of Content Master*

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## MCSE(Exam 70-294)致胜经典: Microsoft Windows Server 2003 Active Directory 设备计划、执行和管理

[美] 吉尔·斯皮尔曼 科特·亨德森 著

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Kurt is an instructor, author, and consultant for computer technologies. In recent years, he has concentrated on the areas of computer networking, Active Directory, integrating UNIX and Microsoft Windows, and computer security. Kurt regularly teaches summer programs at Northern Arizona University in Flagstaff, Arizona. He also has taught several courses through Microsoft Research for several other universities, including the University of Colorado (Boulder), Texas A&M, Duke University—Fuqua College of Business, the University of Iowa, the University of California (San Diego), the University of Virginia, the University of North Carolina, Kansas State University (Manhattan), Case Western Reserve University, and the University of Florida (Gainesville).

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### **Melissa Craft**

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## **Content Master**

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# About This Book

Welcome to *MCSE Self-Paced Training Kit (Exam 70-294): Planning, Implementing, and Maintaining a Microsoft Windows Server 2003 Active Directory Infrastructure*, Second Edition. This training kit introduces you to the Active Directory directory service in Windows Server 2003 with Service Pack 1 (SP1) and prepares you to plan, configure, and administer your Active Directory infrastructure. You will learn to use the Active Directory directory service to centrally manage users, groups, shared folders, and network resources, and to administer the user environment and software with Group Policy. This training kit shows you how to implement and troubleshoot security in a directory services infrastructure and how to monitor and troubleshoot Active Directory performance.



**Planning** The 70-294 exam includes simulation questions. Simulating a computer running the Windows Server 2003 operating system, these challenging questions provide you with a virtual computer interface through which you need to perform a number of administrative procedures. A simulation question presents a scenario with a list of requirements that you must translate into a set of procedures to perform. For a demonstration of a simulation, see the “Answering Simulation Questions” demo on the companion CD.



**Note** In this book, the use of “Windows Server 2003 family” and “Windows Server 2003” refers to the family of four products: Microsoft Windows Server 2003, Standard Edition; Microsoft Windows Server 2003, Enterprise Edition; Microsoft Windows Server 2003, Data-center Edition; and Microsoft Windows Server 2003, Web Edition. However, Windows Server 2003, Web Edition, only partially supports the use of Active Directory. Windows Server 2003, Web Edition, can participate as a member server in an Active Directory-enabled network, but it cannot be used as an Active Directory domain controller.

## Intended Audience

This book was developed for information technology (IT) professionals who plan to take the related Microsoft Certified Professional (MCP) exam 70-294, *Planning, Implementing, and Maintaining a Microsoft Windows Server 2003 Active Directory Infrastructure*, as well as IT professionals who need to install, configure, administer, monitor, and troubleshoot Microsoft Windows Server 2003 Active Directory.



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

## Prerequisites

To complete this training kit, you should have the following:

- Experience implementing and administering a network operating system in environments where: from 250 to 5,000 or more users are supported; three or more physical locations are supported; typical network services and resources include messaging, database, file and print, proxy server or firewall, Internet and intranet, remote access, and client computer management; three or more domain controllers are supported; and connectivity needs include connecting branch offices and individual users in remote locations to the corporate network and connecting corporate networks to the Internet
- Experience implementing and administering a desktop operating system
- Experience designing a network infrastructure

## About the CD-ROM

For your use, this book includes a companion CD-ROM. This CD-ROM contains a variety of informational aids to complement the book content:

- 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.
- An electronic version of this book (eBook). For information about using the eBook, see the section “The eBook” later in this introduction.
- Installation scripts and example files that you will use to perform the hands-on exercises in this book. These include files that demonstrate key concepts and illustrate a specific point, as well as files that are there for your convenience, such as scripts that can be used to reduce the amount of time you spend setting up your system to perform a particular exercise.
- 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.
- An overview of Windows Server 2003 Service Pack 1 and Windows Server 2003 R2.



- A free demo: “Answering Simulation Questions.”
- 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 with SP1 and R2, Enterprise Edition. You will use SP1 to complete the exercises in this training kit. Do not install R2 until you have completed the training kit exercises; R2 is for your reference only.



**Important** The 180-day Evaluation Edition provided with this training 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-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/>. You can also e-mail [tkinput@microsoft.com](mailto:tkinput@microsoft.com) or send a letter to Microsoft Press, Attention: 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 within 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 are divided into lessons. Lessons contain practices made up of 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 that lesson.

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 on the job.



Each chapter ends with a short summary of key concepts and a short section listing key topics and terms that you need to know before taking the exam, summarizing the key learning 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 reading to help you improve your ability to perform the tasks or skills specified by the objectives.

Within each Objective Domain, you will find the related objectives that are covered on the exam. Each objective provides you with several practice exam questions. The answers are accompanied by explanations of each correct and incorrect answer.



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

## Informational Notes

Several 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 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 newly introduced terms and book titles.
- 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 file name in a dialog box or at a command prompt.
- File name 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 file name 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 Active Directory in a Windows Server 2003 SP1 environment. Use this section to prepare your self-paced training environment. Your environment should meet the system requirements listed at <http://www.microsoft.com/windowsserver2003/evaluation/sysreqs/default.mspx>.

To complete some of these procedures, you must have two networked computers or be connected to a larger network. Both computers must be running Windows Server 2003 SP1, Enterprise Edition.



**Caution** Several exercises may require you to make changes to your servers. This may have undesirable results if you are connected to a larger network. If you are connected to a larger network, check with your network administrator before attempting these exercises.

## Hardware Requirements

Each computer must have the following minimum hardware configuration.

- Minimum CPU: 133 MHz processor (550 MHz recommended)
- Minimum RAM: 128 MB RAM (256 MB recommended)
- Hard disk space for setup: 1.5 GB–2.0 GB
- CD-ROM or DVD-ROM drive
- Display monitor capable of 800 × 600 resolution or higher
- High-density floppy disk drive
- Microsoft Mouse or compatible pointing device
- Network interface adapter

## Software Requirements

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

- A copy of the Windows Server 2003 SP1 installation CD-ROM (A 180-day Evaluation Edition of Microsoft Windows Server 2003 with SP1 and R2, Enterprise Edition, is included with this training kit.)



**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 these Evaluation Editions. 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://www.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 98502-6399.

## Setup Instructions

Set up your computers according to the manufacturer's instructions. Then install Windows Server 2003 SP1, Enterprise Edition, according to the instructions in the next section.



**Important** The Evaluation Edition software provided with this training includes SP1. Install SP1 (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 70-294 exam and, therefore, is not covered in this training kit.



**Caution** If your computers are part of a larger network, you must verify with your network administrator that the computer names, domain name, and other information used in setting up your computers as described in Chapter 2, "Installing and Configuring Active Directory," does not conflict with network operations. If it does conflict, ask your network administrator to provide alternative values and use those values throughout the exercises in this book.

## Installing Windows Server 2003

To complete the exercises in this training kit, you should install Windows Server 2003 SP1 on two networked computers according to the instructions provided on the installation CD-ROM. During installation, you can use the Windows Server 2003 Setup program to create a partition on your hard disks, on which you should install Windows Server 2003 as a stand-alone server in a workgroup.



**Note** You can use an automated installation file, `Winnt.sif`, on the CD-ROM to install your computers. You'll find a copy of the file in the `Unattended` folder in the `Server1` and `Server2` subfolders. If you use these automated installation files, simply copy the appropriate `Winnt.sif` file onto a floppy disk. Start your computer from the CD-ROM drive. After the system begins to start from CD-ROM, insert the floppy disk with the `Winnt.sif` file. The installation should proceed without your intervention. The only thing that you must do is type the product key when prompted. Otherwise, the installation of your server is automated. Install `Server1` before you install `Server2`. Otherwise, follow the manual installation method described next.

## To install Windows Server 2003

1. Insert the Microsoft Windows Server 2003, Enterprise Edition, CD-ROM into the CD-ROM drive.
2. On the Welcome To Microsoft Windows Server 2003 screen, select Install Windows Server 2003, Enterprise Edition.
3. On the Welcome To Windows Setup page on the Windows Setup dialog box, select New Installation in the Installation Type list, and then click Next.
4. On the License Agreement page on the Windows Setup dialog box, read the license agreement. To proceed, you must select I Accept This Agreement. Click Next.
5. On the Your Product Key page, type the product key that appears on the sticker attached to the installation CD-ROM case, and then click Next.
6. On the Setup Options page, select the appropriate setup options for your organization, and then click Next.
7. On the Upgrade To The Windows NTFS File System page, select the appropriate file system for your setup, and then click Next.
8. On the Get Updated Setup Files, select No, Skip This Step and Continue Installing Windows, and then click Next. The installation procedure copies setup files and restarts your computer in text mode.
9. On the Setup Notification page, press ENTER.
10. On the Welcome To Setup page, press ENTER. Setup searches for previously installed versions of Windows.
11. A new page appears if Setup finds previously installed versions of Windows. Press ESC to continue.
12. On the next page, select the partition on which you want to install Windows Server 2003 SP1, Enterprise Edition, press ENTER, and then press C to continue Setup using

the selected partition. Or, to create a new partition in unpartitioned space, just press **C**. Then you can install Windows Server 2003 SP1, Enterprise Edition, in the newly partitioned space. Specify the size of the partition (at least 2 GB is recommended) and press **ENTER** to continue. Be sure to format the partition as NTFS.

Setup examines your disks, copies additional files, and then restarts your computer.

13. Setup installs Windows files and displays messages about the benefits of using Windows Server 2003 SP1, Enterprise Edition. On the Regional and Language Options page, select the appropriate settings for your organization, and then click **Next**.
14. On the Personalize Your Software page, type your name in the Name box and your organization name in the Organization box, and then click **Next**.
15. On the Licensing Modes page, click **Next**.
16. On the Computer Name And Administrator Password page, type **SERVER1** in the Computer Name box. (Type **SERVER2** in the Computer Name box if you are installing Windows Server 2003 SP1, Enterprise Edition on your second computer.) Then type a password in the Administrator Password and Confirm Password boxes. Click **Next**.
17. On the Modem Dialing Information page, enter the appropriate information about your modem, and then click **Next**.
18. On the Date And Time Settings page, enter the appropriate information about the date and time and your time zone, and then click **Next**.
19. Setup installs Windows files and displays messages about the benefits of using Windows Server 2003. On the Networking Settings page, ensure that Typical Settings is selected, and then click **Next**.
20. On the Workgroup Or Computer Domain page, ensure that No, This Computer Is Not On a Network Or Is On A Network Without A Domain is selected, and that the workgroup name is **WORKGROUP**, and then click **Next**.

Setup installs Windows files, displays messages about the benefits of using Windows Server 2003, and then restarts your computer. The newly installed version of Windows Server 2003 SP1, Enterprise Edition is now running.

21. Remove the Windows Server 2003 SP1 installation CD-ROM from the CD-ROM drive.

### The Microsoft Press Readiness Review Suite

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

## To install the practice test and objective review

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



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

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

## The eBook

The companion CD-ROM includes an electronic version of this training kit, as well as bonus material, including sample chapters from several Microsoft Press books and relevant white papers. The eBook and bonus materials are in Portable Document Format (PDF) and can be viewed using Adobe Reader (<http://www.adobe.com>).

## To use the eBook

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



**Note** If AutoRun is disabled on your computer, refer to the Readme.txt file on the CD.

2. Click eBook on the user interface menu and follow the prompts. You can also review any of the other PDF files that are provided for your use.

# The Microsoft Certified Professional Program

The 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.



**Off the Record** or 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 disc. If you have comments, questions, or ideas regarding this book or the companion disc, 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: *MCSE Self-Paced Training Kit (Exam 70-294): Planning, Implementing, and Maintaining a Microsoft Windows Server 2003 Active Directory Infrastructure*, 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/>. 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 is not the full retail product and is provided only for the purposes of training and evaluation. Microsoft and Microsoft Technical Support do not support this Evaluation Edition.



**Caution** The Evaluation Edition of Microsoft Windows Server 2003 with SP1 and R2, Enterprise Edition, 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 R2, Enterprise Edition, 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>.

## **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
- Special offers

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

Charter membership in the Microsoft Press Insiders' club, which includes e-mail updates about the latest offerings in learning products, special offers, advance notices about discounts at participating booksellers, and exclusive offers. It is the one e-mail you'll be glad to see in your inbox!

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