

NETWORKING

Guide to

Novell® NetWare® 5.0/5.1: Network Administration

Enhanced Edition

David Doering
Ted Simpson

Certified
Novell
Administrator

Covers Upgrading
to NetWare 5.1

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Network Administration

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Preface

Our book—*Guide to NetWare 5.0/5.1: Network Administration Enhanced Edition*—is an in-depth study of configuring and managing networks using the Novell NetWare 5.0 and 5.1 network operating systems. Each chapter contains a thorough explanation of concepts, tools, and techniques, which build progressively from creating to administering a complete NetWare network.

We designed this book to provide you with the knowledge and skills you need to pass Novell's Certified Novell Administrator (CNA) exam for NetWare 5.1. This will let you take advantage of the many job opportunities in the rapidly growing field of network administration.

NetWare Versions

This book focuses on NetWare 5.0 and 5.1, the latest versions of the software. Earlier NetWare 4.x software shares many similarities with this latest release. However, NetWare 5.1 incorporates numerous changes in utilities and architecture—for example, it now includes native IP support for broad application in enterprise environments. The new Novell Client software offers a wider range of services through native Windows 95/98 utilities, making the administrator's tasks easier and more familiar.

Approach

We wrote this book for NetWare 5.0 and NetWare 5.1 networks with client workstations running Windows 95 or Windows 98 as well as the Novell Client that ships with NetWare 5.1 (the most up-to-date configuration at the time of the book). While workstations running earlier versions of the Client may log in to NetWare 5.1, they will not support the full set of functions in the administrator's tools and should be upgraded before starting the class.

We use a sample case—Cunningham, Burns, and Evans Laboratories (CBE Labs)—as our primary example in implementing NetWare 5.0. In Appendices B and C, the projects focus on installing and implementing NetWare 5.1. This example is reflected in the many illustrations in the book. Each chapter also includes a set of hands-on projects and case projects for additional practice with NetWare. Your instructor may also run a continuing project (Northwestern Technical College) in configuring and administering NetWare. When you complete this book, you will have the experience you need to actually administer a Novell network.

Features

To aid you in fully understanding NetWare 5.0 and 5.1 concepts, there are many features in this book designed to improve its pedagogical value.

- **Two additional appendices** that detail how to upgrade to NetWare 5.1 and use the new features of this version.
- **Chapter Objectives** Each chapter begins with a detailed list of the objectives. A glance at these objectives will give you an overview of the chapter and provide a review and study aid.
- **Illustrations and Tables** Numerous illustrations aid you in the visualization of common setup steps, theories, and concepts. In addition, many tables provide details and comparisons of both practical and theoretical information.
- **Chapter Summary** Each chapter contains a summary to review the primary concepts covered.
- **Command Summary** Each chapter contains a capsule summary of any command line utilities taught. The Command Summary provides you with a convenient resource for these commands.
- **Key Terms** Each chapter includes a list of any new terms introduced. All terms have definitions in the Glossary at the back of the book.
- **Review Questions** End-of-chapter assessment begins with a set of review questions that reinforce ideas introduced in each chapter.
- **Hands-on Projects** Each chapter provides numerous hands-on projects aimed at providing you with real-world implementation experience.
- **Case Projects** Located at the end of each chapter are case projects, which allow you to implement the skills and knowledge gained in the chapter using real-world scenarios.

Text and Graphic Conventions

Wherever appropriate, additional information and projects have been added to this book to help you better understand what is being discussed in the chapter. The icons used in this textbook to alert you to additional materials are described below.



The Note icon is used to present additional helpful material related to the subject being described.



Each Hands-on Project in this book is preceded by the Hands-on icon and a description of the project that follows.



The Tip icon presents a procedure or approach used by administrators in the field to more effectively handle a given task. The Tips help you perform with a greater level of competence by learning time-saving or effort-saving shortcuts.



The Caution icon indicates a common mistake or misunderstanding about working with NetWare 5.0. The Cautions help you avoid errors and the effort needed to correct them.



Case Project icons mark the running Case Project. These projects are more involved, scenario-based assignments. In this extensive case example, you are asked to implement independently what you have learned.

Instructor's Materials

The following teaching tools are available when this book is used in a classroom setting. All of the teaching tools available with this book are provided to the instructor on a single CD-ROM.

Electronic Instructor's Manual The Instructor's Manual that accompanies this textbook includes:

- Additional instructional material to assist in class preparation, including suggestions for lecture topics, suggested lab activities, tips on setting up a lab for the hands-on projects, and alternative lab setup ideas in situations where lab resources are limited.
- Solutions to all end-of-chapter materials, including the Hands-on and Case Projects.

ExamView Pro 3.0 This textbook is accompanied by ExamView®, a powerful testing software package that allows instructors to create and administer printed, computer (LAN-based), and Internet exams. ExamView includes hundreds of questions that correspond to the topics covered in this text, enabling students to generate detailed study guides that include page references for further review. The computer-based and Internet testing components allow students to take exams at their computers, and also save the instructor time by grading each exam automatically.

PowerPoint Presentations This book comes with Microsoft PowerPoint slides for each chapter. These slides are included as a teaching aid for classroom presentation, to make available to students on the network for review, or to be printed for classroom distribution. Instructors, please feel at liberty to add your own slides for additional topics.

ACKNOWLEDGMENTS

Creating a book of this magnitude is an incredibly complex process with many people involved in writing, editing, testing, and production. This version, along with its predecessors, benefits from hundreds of individuals who made it possible. We offer our thanks to them.

In particular, we thank the good people at Course Technology: Stephen Solomon, who got the ball rolling; David George and Laura Hildebrand, for shepherding the project; and especially Deb Kaufmann, Jim Markham, and Anne Valsangiacomo, for editing and overseeing the production.

Ted Simpson would like to thank his wife Mary, whose loving and patient help enabled him to complete this project. In addition, any success this book achieves is ultimately due to his parents, William and Rosemarie, who have made many sacrifices to provide a stable and motivating environment for learning and growing.

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