## Contents at a Glance

### Introduction
- **Introduction**  
  xix

### Assessment Test
- **Assessment Test**  
  xli

### Chapter 1
- **Chapter 1**  
  Introduction to ISA Server  
  1

### Chapter 2
- **Chapter 2**  
  ISA Server 2000 Installation  
  39

### Chapter 3
- **Chapter 3**  
  Basic ISA Configuration  
  107

### Chapter 4
- **Chapter 4**  
  ISA Server and RRAS Integration  
  191

### Chapter 5
- **Chapter 5**  
  Configuring ISA Server for the Enterprise  
  239

### Chapter 6
- **Chapter 6**  
  Client Access  
  315

### Chapter 7
- **Chapter 7**  
  Performance Tuning and Optimization of ISA Server  
  367

### Chapter 8
- **Chapter 8**  
  Troubleshooting ISA Server  
  429

### Glossary
- **Glossary**  
  493

### Index
- **Index**  
  517
# Contents

*Introduction* xix

*Assessment Test* xli

## Chapter 1 Introduction to ISA Server  1

- The Need for Corporate Security 3
- What Is a Proxy Server? 6
  - Benefits and Uses of a Proxy Server 7
- What Is a Firewall? 13
- Common Internet Protocols and Ports 15
- ISA versus Microsoft Proxy Server 2.0 24
- Summary 26
- Key Terms 27
- Review Questions 28
- Answers to Review Questions 34

## Chapter 2 ISA Server 2000 Installation  39

- Preconfiguring Network Interfaces 40
  - Sizing the ISA Server 41
  - Verifying Network Connectivity 44
  - Networks That Are Internal to the DMZ 45
  - ISA on the DMZ 47
  - DNS Issues 49
- Installing ISA Server 51
  - The Getting Started Wizard 58
  - Installing ISA As a Member of an Array 74
- Upgrading from Microsoft Proxy Server 2.0 78
  - Performing the Upgrade 79
- Troubleshooting Setup Problems 84
- Summary 86
- Key Terms 86
- Exam Essentials 87
- Review Questions 88
- Answers to Review Questions 101
Chapter 5 Configuring ISA Server for the Enterprise

Common Security Problems in the Enterprise
  Outgoing Requests
  Incoming Requests
  Application Filters
  Intrusion Detection
  ISA Server System Security
  Virtual Private Networks
Packet Filtering
  Configuring Packet Filters
Access Policy
  Protocol Rules
  Site and Content Rules
  Bandwidth Limiting
Creating Arrays
  Installing ISA Server in an Array
  Network Load Balancing
  Cache Array Routing Protocol (CARP)
Summary
Key Terms
Exam Essentials
Review Questions
Answers to Review Questions

Chapter 6 Client Access

Supported Client Types
  Secure Network Address Translation Client
  Firewall Client
Chapter 7  Performance Tuning and Optimization of ISA Server 367

Using System Monitor 368
Performance Tuning 376
Using and Interpreting Reports 379
Logging 379
Reporting 384
Monitoring the ISA Server 395
Alerts 395
Services 406
Sessions 406
Intrusion Detection 408
Summary 411
Key Terms 412
Exam Essentials 412
Review Questions 413
Answers to Review Questions 425