

Advanced System Administration of a Windows 2000 Server

Introduction.....	1
Hardware and Installation Planning.....	2
Hardware Planning Stage.....	2
Windows 2000 Installation Planning.....	3
Windows 2000 Server Installation.....	6
Installing from Windows	6
Installation Across the Network.....	6
Local or Standalone Installation	6
Troubleshooting Windows 2000 Server Installations.....	14
The Setup Freezes or Locks.....	14
Setup Stops During File Copying	15
Active Directory.....	16
Active Directory in Brief	16
Preparing for Active Directory Installation	16
Installing Active Directory Services.....	17
Testing the Active Directory Installation.....	20
Protocols Supported by Windows 2000 Server	22
TCP/IP Protocol.....	22
NWLink IPX/SPX Compatible Transport Protocol.....	23
NetBEUI Protocol.....	24
TCP/IP Concepts.....	25
IP Addressing.....	25
Installing the TCP/IP Protocol	25
Setting the TCP/IP Options.....	26
TCP/IP Command Line Debugging Tools.....	27
Windows 2000 Router	33
Domain Name System Server.....	34
What is DNS?	34
DNS Domain Hierarchy.....	35
DNS Records and Files.....	36
DNS Installation.....	38
Managing the DNS Server	38
Troubleshooting DNS	46
DNS Configuration and Administration Suggestions.....	52
Dynamic Host Configuration Protocol	54

Automatic Addressing Without DHCP.....	54
Installing DHCP.....	56
Scopes.....	57
User and Vendor Classes.....	61
Configuring the Client Computer.....	64
Superscopes.....	65
Windows Internet Naming Service.....	67
Do You Need WINS?.....	67
Clients Supported by WINS.....	67
Preparing the Server for WINS.....	68
WINS Installation.....	68
Enabling WINS Resolution.....	69
Adding Replication Partners.....	69
Troubleshooting WINS.....	70
Troubleshooting and Recovery.....	71
Using the Boot Menu Options.....	71
Last Known Good Configuration.....	72
Emergency Repair Disk.....	73
Creating the Windows 2000 Setup Disks.....	75
Using the Boot Disk.....	76
The Recovery Console.....	77
Recover Options.....	77
Restoring Your Completely Failed Server.....	79
Uninstalling Windows 2000 Server.....	80
Troubleshooting Notes.....	81
The Computer Management Utility.....	82
The Network Monitor.....	90
The Device Manager.....	99
System File Checker.....	99
NetDiag.....	100
NBTStat.....	102
Appendix A: Additional TCP/IP Information.....	103
Binary Values.....	103
Determining the IP Address.....	103
Networks and Hosts.....	104
Subnetting or Subnet Mask.....	105
Appendix B: Glossary.....	108