Brief Contents

Contents xiii
List of JumpStarts xxxvii
Preface xxxix

1 Welcome to Linux 1

PART I Installing Ubuntu Linux 23
2 Installation Overview 25
3 Step-by-Step Installation 51

PART II Getting Started with Ubuntu Linux 95
4 Introduction to Ubuntu Linux 97
5 The Linux Utilities 159
6 The Linux Filesystem 199
7 The Shell 237

PART III Digging into Ubuntu Linux 265
8 Linux GUIs: X and GNOME 267
9 The Bourne Again Shell 291
10 Networking and the Internet 371

PART IV System Administration 415

11 System Administration: Core Concepts 417
12 Files, Directories, and Filesystems 487
13 Downloading and Installing Software 517
14 Printing with CUPS 547
15 Building a Linux Kernel 571
16 Administration Tasks 593
17 Configuring and Monitoring a LAN 637

PART V Using Clients and Setting Up Servers 661

18 OpenSSH: Secure Network Communication 663
19 FTP: Transferring Files Across a Network 687
20 **exim4**: Setting Up Mail Servers, Clients, and More 713
21 NIS and LDAP 741
22 NFS: Sharing Filesystems 773
23 Samba: Linux and Windows File and Printer Sharing 797
24 DNS/BIND: Tracking Domain Names and Addresses 821
25 **firestarter**, **gufw**, and **iptables**: Setting Up a Firewall 863
26 Apache: Setting Up a Web Server 899

PART VI Programming Tools 951

27 Programming the Bourne Again Shell 953
28 The Perl Scripting Language 1041

PART VII Appendixes 1087

A Regular Expressions 1089
B Help 1099
C Security 1109
D The Free Software Definition 1129

Glossary 1133
JumpStart Index 1183
File Tree Index 1185
Utility Index 1189
Main Index 1195