

## Internetworking Con Tcp Ip 1

Your first step into the world of computer networking No experience required Includes clear and easily understood explanations Makes learning easy Your first step to computer networking begins here! Learn basic networking terminology Understand how information is routed from place to place Explore Internet connectivity secrets Protect your computer from intrusion Build local-area networks (LANs) Welcome to the world of networking! Networking and the Internet touch our lives in untold ways every day. From connecting our computers together at home and surfing the net at high speeds to editing and sharing digital music and video, computer networking has become both ubiquitous and indispensable. No experience needed! Computer Networking First-Step explains the basics of computer networking in easy-to-grasp language that all of us can understand. This book takes you on a guided tour of the core technologies that make up network and Internet traffic. Whether you are looking to take your first step into a career in networking or are interested in just gaining a conversational knowledge of the technology, this book is for you!

Twenty five years ago, it didn't exist. Today, twenty million people worldwide are surfing the Net. Where Wizards Stay Up Late is the exciting story of the pioneers responsible for creating the most talked about, most influential, and most far-reaching communications breakthrough since the invention of the telephone. In the 1960's, when computers were regarded as mere giant

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calculators, J.C.R. Licklider at MIT saw them as the ultimate communications devices. With Defense Department funds, he and a band of visionary computer whizzes began work on a nationwide, interlocking network of computers. Taking readers behind the scenes, *Where Wizards Stay Up Late* captures the hard work, genius, and happy accidents of their daring, stunningly successful venture.

The world of IT is always evolving, but in every area there are stable, core concepts that anyone just setting out needed to know last year, needs to know this year, and will still need to know next year. The purpose of the Foundations series is to identify these concepts and present them in a way that gives you the strongest possible starting point, no matter what your endeavor. TCP/IP Foundations provides essential knowledge about the two protocols that form the basis for the Internet, as well as many other networks. What you learn here will benefit you in the short term, as you acquire and practice your skills, and in the long term, as you use them. Topics covered include: The origins of TCP/IP and the Internet The layers comprising the OSI and DoD models TCP/IP addressing Subnet masks Creating custom subnet masks Supernetting and Classless Inter-Domain Routing (CIDR) Name resolution The Domain Name System (DNS) and Dynamic DNS Windows Internet Naming Services (WINS) The Dynamic Host Configuration Protocol (DHCP) What to expect with IPv6

This book is a study guide for Huawei (HCNA) certification. It has been written to help readers understand the principles of network technologies. It

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covers topics including network fundamentals, Ethernet, various protocols such as those used in routing, and Huawei's own VRP operating system—all essential aspects of HCNA certification. Presenting routing and switching basics in depth, it is a valuable resource for information and communications technology (ICT) practitioners, university students and network technology fans.

TCP/IP Illustrated, Volume 3 covers four major topics of great importance to anyone working TCP/IP. It contains the first thorough treatment of TCP for transactions, commonly known as T/TCP, an extension to TCP that makes client-server transactions faster and more efficient. Next, the book covers two popular applications of T/TCP, the very hot topic of HTTP (the Hypertext Transfer Protocol), the foundation for the World Wide Web, and NNTP (the Network News Transfer Protocol), the basis for the Usenet news system. Both of these topics have increased in significance as the Internet has exploded in size and usage. Finally, the book covers UNIX Domain Protocols, protocols that are used heavily in UNIX implementations.

The present book is based on the research papers presented in the International Conference on Soft Computing for Problem Solving (SocProS 2012), held at JK Lakshmipat University, Jaipur, India. This book provides the latest developments in the area of soft computing and covers a variety of topics, including mathematical modeling, image processing, optimization, swarm intelligence, evolutionary algorithms, fuzzy logic, neural networks, forecasting, data mining, etc. The

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objective of the book is to familiarize the reader with the latest scientific developments that are taking place in various fields and the latest sophisticated problem solving tools that are being developed to deal with the complex and intricate problems that are otherwise difficult to solve by the usual and traditional methods. The book is directed to the researchers and scientists engaged in various fields of Science and Technology. A text focusing on the methods and alternatives for designed TCP/IP-based client/server systems and advanced techniques for specialized applications with Perl. A guide examining a collection of the best third party modules in the Comprehensive Perl Archive Network. Topics covered: Perl function libraries and techniques that allow programs to interact with resources over a network. IO: Socket library ; Net: FTP library -- Telnet library -- SMTP library ; Chat problems ; Internet Message Access Protocol (IMAP) issues ; Markup-language parsing ; Internet Protocol (IP) broadcasting and multicasting.

Router Security Strategies: Securing IP Network Traffic Planes provides a comprehensive approach to understand and implement IP traffic plane separation and protection on IP routers. This book details the distinct traffic planes of IP networks and the advanced techniques necessary to operationally secure them. This includes the data, control, management, and services planes that provide the infrastructure for IP networking. The first section provides a brief overview of the essential

components of the Internet Protocol and IP networking. At the end of this section, you will understand the fundamental principles of defense in depth and breadth security as applied to IP traffic planes. Techniques to secure the IP data plane, IP control plane, IP management plane, and IP services plane are covered in detail in the second section. The final section provides case studies from both the enterprise network and the service provider network perspectives. In this way, the individual IP traffic plane security techniques reviewed in the second section of the book are brought together to help you create an integrated, comprehensive defense in depth and breadth security architecture.

“Understanding and securing IP traffic planes are critical to the overall security posture of the IP infrastructure. The techniques detailed in this book provide protection and instrumentation enabling operators to understand and defend against attacks. As the vulnerability economy continues to mature, it is critical for both vendors and network providers to collaboratively deliver these protections to the IP infrastructure.” –Russell Smoak, Director, Technical Services, Security Intelligence Engineering, Cisco  
Gregg Schudel, CCIE® No. 9591, joined Cisco in 2000 as a consulting system engineer supporting the U.S. service provider organization. Gregg focuses on IP core network security architectures and technology for interexchange carriers and web

services providers. David J. Smith, CCIE No. 1986, joined Cisco in 1995 and is a consulting system engineer supporting the service provider organization. David focuses on IP core and edge architectures including IP routing, MPLS technologies, QoS, infrastructure security, and network telemetry. Understand the operation of IP networks and routers Learn about the many threat models facing IP networks, Layer 2 Ethernet switching environments, and IPsec and MPLS VPN services Learn how to segment and protect each IP traffic plane by applying defense in depth and breadth principles Use security techniques such as ACLs, rate limiting, IP Options filtering, uRPF, QoS, RTBH, QPPB, and many others to protect the data plane of IP and switched Ethernet networks Secure the IP control plane with rACL, CoPP, GTSM, MD5, BGP and ICMP techniques and Layer 2 switched Ethernet-specific techniques Protect the IP management plane with password management, SNMP, SSH, NTP, AAA, as well as other VPN management, out-of-band management, and remote access management techniques Secure the IP services plane using recoloring, IP fragmentation control, MPLS label control, and other traffic classification and process control techniques This security book is part of the Cisco Press® Networking Technology Series. Security titles from Cisco Press help networking professionals secure critical data

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and resources, prevent and mitigate network attacks, and build end-to-end self-defending networks.

The Internet Book, Fifth Edition explains how computers communicate, what the Internet is, how the Internet works, and what services the Internet offers. It is designed for readers who do not have a strong technical background — early chapters clearly explain the terminology and concepts needed to understand all the services. It helps the reader to understand the technology behind the Internet, appreciate how the Internet can be used, and discover why people find it so exciting. In addition, it explains the origins of the Internet and shows the reader how rapidly it has grown. It also provides information on how to avoid scams and exaggerated marketing claims. The first section of the book introduces communication system concepts and terminology. The second section reviews the history of the Internet and its incredible growth. It documents the rate at which the digital revolution occurred, and provides background that will help readers appreciate the significance of the underlying design. The third section describes basic Internet technology and capabilities. It examines how Internet hardware is organized and how software provides communication. This section provides the foundation for later chapters, and will help readers ask good questions and make better decisions when salespeople offer Internet products and services.

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The final section describes application services currently available on the Internet. For each service, the book explains both what the service offers and how the service works. About the Author Dr. Douglas Comer is a Distinguished Professor at Purdue University in the departments of Computer Science and Electrical and Computer Engineering. He has created and enjoys teaching undergraduate and graduate courses on computer networks and Internets, operating systems, computer architecture, and computer software. One of the researchers who contributed to the Internet as it was being formed in the late 1970s and 1980s, he has served as a member of the Internet Architecture Board, the group responsible for guiding the Internet's development. Prof. Comer is an internationally recognized expert on computer networking, the TCP/IP protocols, and the Internet, who presents lectures to a wide range of audiences. In addition to research articles, he has written a series of textbooks that describe the technical details of the Internet. Prof. Comer's books have been translated into many languages, and are used in industry as well as computer science, engineering, and business departments around the world. Prof. Comer joined the Internet project in the late 1970s, and has had a high-speed Internet connection to his home since 1981. He wrote this book as a response to everyone who has asked him for an explanation of the Internet that is both

technically correct and easily understood by anyone. An Internet enthusiast, Comer displays INTRNET on the license plate of his car.

“For an engineer determined to refine and secure Internet operation or to explore alternative solutions to persistent problems, the insights provided by this book will be invaluable.” —Vint Cerf, Internet pioneer

TCP/IP Illustrated, Volume 1, Second Edition, is a detailed and visual guide to today’s TCP/IP protocol suite. Fully updated for the newest innovations, it demonstrates each protocol in action through realistic examples from modern Linux, Windows, and Mac OS environments. There’s no better way to discover why TCP/IP works as it does, how it reacts to common conditions, and how to apply it in your own applications and networks. Building on the late W. Richard Stevens’ classic first edition, author Kevin R. Fall adds his cutting-edge experience as a leader in TCP/IP protocol research, updating the book to fully reflect the latest protocols and best practices. He first introduces TCP/IP’s core goals and architectural concepts, showing how they can robustly connect diverse networks and support multiple services running concurrently. Next, he carefully explains Internet addressing in both IPv4 and IPv6 networks. Then, he walks through TCP/IP’s structure and function from the bottom up: from link layer protocols—such as Ethernet and Wi-Fi—through network, transport, and application

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layers. Fall thoroughly introduces ARP, DHCP, NAT, firewalls, ICMPv4/ICMPv6, broadcasting, multicasting, UDP, DNS, and much more. He offers extensive coverage of reliable transport and TCP, including connection management, timeout, retransmission, interactive data flow, and congestion control. Finally, he introduces the basics of security and cryptography, and illuminates the crucial modern protocols for protecting security and privacy, including EAP, IPsec, TLS, DNSSEC, and DKIM. Whatever your TCP/IP experience, this book will help you gain a deeper, more intuitive understanding of the entire protocol suite so you can build better applications and run more reliable, efficient networks.

When it comes to teaching computer professionals how to plan for, use, operate, and maintain a TCP/IP network and associated services, Dr. Sidnie Feit literally "wrote the Book". Now, fully updated, this book covers the most significant changes in the field including Next Generation Internet Protocol, better known as IPng or IPv6.

For more than 20 years, Network World has been the premier provider of information, intelligence and insight for network and IT executives responsible for the digital nervous systems of large organizations. Readers are responsible for designing, implementing and managing the voice, data and video systems their companies use to support everything from

business critical applications to employee collaboration and electronic commerce.

Benvenuti describes the relationship between the Internet's TCP/IP implementation and the Linux Kernel so that programmers and advanced administrators can modify and fine-tune their network environment.

Designed as a first step into the world of TCP/IP networking, this reader-friendly guide employs real-world practices to help readers understand the practical benefits of the TCP/IP suite. Includes information on the concept of packetized data transfer, open networking, reference models, and standards bodies.

Interconnecting Smart Objects with IP: The Next Internet explains why the Internet Protocol (IP) has become the protocol of choice for smart object networks. IP has successfully demonstrated the ability to interconnect billions of digital systems on the global Internet and in private IP networks. Once smart objects can be easily interconnected, a whole new class of smart object systems can begin to evolve. The book discusses how IP-based smart object networks are being designed and deployed. The book is organized into three parts. Part 1 demonstrates why the IP architecture is well suited to smart object networks, in contrast to non-IP based sensor network or other proprietary systems that interconnect to IP networks (e.g. the public Internet of private IP networks) via hard-to-manage and expensive multi-protocol translation gateways that scale poorly. Part 2 examines protocols and algorithms, including smart objects and the low power link layers technologies used in these

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networks. Part 3 describes the following smart object network applications: smart grid, industrial automation, smart cities and urban networks, home automation, building automation, structural health monitoring, and container tracking. Shows in detail how connecting smart objects impacts our lives with practical implementation examples and case studies Provides an in depth understanding of the technological and architectural aspects underlying smart objects technology Offers an in-depth examination of relevant IP protocols to build large scale smart object networks in support of a myriad of new services

From Charles M. Kozierok, the creator of the highly regarded [www.pcguides.com](http://www.pcguides.com), comes *The TCP/IP Guide*. This completely up-to-date, encyclopedic reference on the TCP/IP protocol suite will appeal to newcomers and the seasoned professional alike. Kozierok details the core protocols that make TCP/IP internetworks function and the most important classic TCP/IP applications, integrating IPv6 coverage throughout. Over 350 illustrations and hundreds of tables help to explain the finer points of this complex topic. The book's personal, user-friendly writing style lets readers of all levels understand the dozens of protocols and technologies that run the Internet, with full coverage of PPP, ARP, IP, IPv6, IP NAT, IPSec, Mobile IP, ICMP, RIP, BGP, TCP, UDP, DNS, DHCP, SNMP, FTP, SMTP, NNTP, HTTP, Telnet, and much more. *The TCP/IP Guide* is a must-have addition to the libraries of internetworking students, educators, networking professionals, and those working toward certification. A detailed examination of interior routing protocols -- completely updated in a new edition A complete revision of the best-selling first edition--widely considered a premier text on TCP/IP routing protocols A core textbook for CCIE preparation and a practical reference for network designers, administrators, and engineers Includes configuration and

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troubleshooting lessons that would cost thousands to learn in a classroom and numerous real-world examples and case studies Praised in its first edition for its approachable style and wealth of information, this new edition provides readers a deep understanding of IP routing protocols, teaches how to implement these protocols using Cisco routers, and brings readers up to date protocol and implementation enhancements. Routing TCP/IP, Volume 1, Second Edition, includes protocol changes and Cisco features that enhance routing integrity, secure routers from attacks initiated through routing protocols, and provide greater control over the propagation of routing information for all the IP interior routing protocols. Routing TCP/IP, Volume 1, Second Edition, provides a detailed analysis of each of the IP interior gateway protocols (IGPs). Its structure remains the same as the best-selling first edition, though information within each section is enhanced and modified to include the new developments in routing protocols and Cisco implementations. What's New In This Edition? The first edition covers routing protocols as they existed in 1998. The new book updates all covered routing protocols and discusses new features integrated in the latest version of Cisco IOS Software. IPv6, its use with interior routing protocols, and its interoperability and integration with IPv4 are also integrated into this book. Approximately 200 pages of new information are added to the main text, with some old text removed. Additional exercise and solutions are also included.

This volume focuses on the underlying sockets class, one of the basis for learning about networks in any programming language. By learning to write simple client and server programs that use TCP/IP, readers can then realize network routing, framing, error detection and correction, and performance.

Two hundred entries offer profiles of key figures; essays on

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such topics as cookies, content filtering, and digital libraries; and a chronology beginning with the prehistory of the Internet from 1843-1956 and concluding with the 2004 presidential campaign.

Packed with the latest information on TCP/IP standards and protocols TCP/IP is a hot topic, because it's the glue that holds the Internet and the Web together, and network administrators need to stay on top of the latest developments. TCP/IP For Dummies, 6th Edition, is both an introduction to the basics for beginners as well as the perfect go-to resource for TCP/IP veterans. The book includes the latest on Web protocols and new hardware, plus very timely information on how TCP/IP secures connectivity for blogging, vlogging, photoblogging, and social networking. Step-by-step instructions show you how to install and set up TCP/IP on clients and servers; build security with encryption, authentication, digital certificates, and signatures; handle new voice and mobile technologies, and much more. Transmission Control Protocol / Internet Protocol (TCP/IP) is the de facto standard transmission medium worldwide for computer-to-computer communications; intranets, private internets, and the Internet are all built on TCP/IP The book shows you how to install and configure TCP/IP and its applications on clients and servers; explains intranets, extranets, and virtual private networks (VPNs); provides step-by-step information on building and enforcing security; and covers all the newest protocols You'll learn how to use encryption, authentication, digital certificates, and signatures to set up a secure Internet credit card transaction Find practical security tips, a Quick Start Security Guide, and still more in this practical guide. Este livro é um best-seller internacional que apresenta os conceitos introdutórios de protocolos TCP/IP e redes. Ele intercala a discussão de fundamentos e princípios científicos com detalhes e exemplos tirados das tecnologias mais

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recentes. O renomado autor Douglas Comer aborda camadas e formatos para todos os protocolos de internet, incluindo TCP, IPv4, IPv6, DHCP e DNS. Além disso, o texto explica as tendências atuais em sistemas de internet, incluindo classificação de pacotes, Software Define Networking (SDN) e protocolos usados na Internet das Coisas (Internet of Things). Indicado para alunos de graduação em disciplinas ligadas a Redes de Computadores em cursos como Engenharia de Computação, Tecnologia da Informação, Redes de Comunicação, Engenharia de Telecomunicações, assim como alunos de cursos tecnológicos e profissionais dessas áreas.

The key technology to delivering maximum bandwidth over networks is Dense Wave-length Division Multiplexing (DWDM). Describes in detail how DWDM works and how to implement a range of transmission protocols. Covers device considerations, the pros and cons of various network layer protocols, and quality of service (QoS) issues. The authors are leading experts in this field and provide real-world implementation examples. First book to describe the interplay between the physical and IP (Internet Protocol) layers in optical networks.

A text on networking theory and practice, providing information on general networking concepts, routing algorithms and protocols, addressing, and mechanics of bridges, routers, switches, and hubs. Describes all major network algorithms and protocols in use today, and explores engineering trade-offs that each different approach represents. Includes chapter homework problems and a glossary. This second edition is expanded to cover recent developments such as VLANs, Fast Ethernet, and AppleTalk. The author is a Distinguished Engineer at Sun Microsystems, Inc., and holds some 50 patents. Annotation copyrighted by Book News, Inc., Portland, OR.

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Appropriate for a first course on computer networking, this textbook describes the architecture and function of the application, transport, network, and link layers of the internet protocol stack, then examines audio and video networking applications, the underpinnings of encryption and network security, and the key issues of network management. Th [1] Xinu (Computer operating system).

This book demystifies the amazing architecture and protocols of computers as they communicate over the Internet. While very complex, the Internet operates on a few relatively simple concepts that anyone can understand. Networks and networked applications are embedded in our lives.

Understanding how these technologies work is invaluable. This book was written for everyone - no technical knowledge is required! While this book is not specifically about the Network+ or CCNA certifications, it as a way to give students interested in these certifications a starting point.

PCMag.com is a leading authority on technology, delivering Labs-based, independent reviews of the latest products and services. Our expert industry analysis and practical solutions help you make better buying decisions and get more from technology.

TCP/IP is the de facto protocol of the Internet, and this protocol is supported by every major network operating system. As more organizations and individuals connect networks and computers to the Internet and one another, there is a growing demand for professionals to have a thorough understanding of this protocol suite. TCP/IP JumpStart Second Edition will explain the fundamentals of TCP/IP in simple terms with tangible examples. New for this edition: updates on Windows XP/2000, Dynamic DNS, CIDR, and subnetting.

This is the eBook of the printed book and may not include any media, website access codes, or print supplements that may

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come packaged with the bound book. Computer Networks and Internets is appropriate for all introductory-to-intermediate courses in computer networking, the Internet, or Internet applications; readers need no background in networking, operating systems, or advanced mathematics. Leading networking authority Douglas Comer presents a wide-ranging, self-contained tour of the concepts, principles, and technologies that enable today's Internet to support applications ranging from web browsing to telephony and multimedia. This Fifth Edition has been thoroughly reorganized, revised, and updated: it includes extensive new coverage of topics ranging from wireless protocols to network performance, while reducing or eliminating coverage of older protocols and technologies. Comer begins by illuminating the applications and facilities offered by today's Internet. Next, he systematically introduces the underlying network technologies and protocols that make them possible: low-level data communications; packet switching, LAN, and WAN technologies; and Internet protocols such as TCP, IP, UDP, and IPv6. With these concepts and technologies established, he introduces several of the most important contemporary issues faced by network implementers and managers, including quality of service, Internet telephony, multimedia, network security, and network management. Comer has carefully designed this book to support both top-down and bottom-up teaching approaches. Students need no background in operating systems, and no sophisticated math: Comer relies throughout on figures, drawings, examples, and analogies, not mathematical proofs.

Go under the hood of an operating Voice over IP network, and build your knowledge of the protocols and architectures used by this Internet telephony technology. With this concise guide, you'll learn about services involved in VoIP and get a first-hand view of network data packets from the time the

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phones boot through calls and subsequent connection teardown. With packet captures available on the companion website, this book is ideal whether you're an instructor, student, or professional looking to boost your skill set. Each chapter includes a set of review questions, as well as practical, hands-on lab exercises. Learn the requirements for deploying packetized voice and video Understand traditional telephony concepts, including local loop, tip and ring, and T carriers Explore the Session Initiation Protocol (SIP), VoIP's primary signaling protocol Learn the operations and fields for VoIP's standardized RTP and RTCP transport protocols Delve into voice and video codecs for converting analog data to digital format for transmission Get familiar with Communications Systems H.323, SIP's widely used predecessor Examine the Skinny Client Control Protocol used in Cisco VoIP phones in networks around the world Covers receipts and expenditures of appropriations and other funds.

A one-of-a-kind description about using the Linux operating system on a TCP/IP network Boasting high-performance, high availability, and open source code, Linux has emerged as an optimal choice for an operating system. Yet for Linux to be adopted by the mainstream of Unix-based corporate and ISP networks, it must be capable of supporting the TCP/IP Internet protocol, like any other network operating system. This book provides the rapidly growing audience of Linux site managers, as well as researchers and developers worldwide, with the information they need on how Linux TCP/IP keeps the network running. Internationally recognized expert on Internetworking, Jon Crowcroft walks readers through the Linux TCP/IP protocol stack, offering detailed explanations on how Linux implements its communications protocols. Vinton Cerf--co-inventor of TCP/IP--is the technical editor for this book.

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This complete guide to setting up and running a TCP/IP network is essential for network administrators, and invaluable for users of home systems that access the Internet. The book starts with the fundamentals -- what protocols do and how they work, how addresses and routing are used to move data through the network, how to set up your network connection -- and then covers, in detail, everything you need to know to exchange information via the Internet. Included are discussions on advanced routing protocols (RIPv2, OSPF, and BGP) and the gated software package that implements them, a tutorial on configuring important network services -- including DNS, Apache, sendmail, Samba, PPP, and DHCP -- as well as expanded chapters on troubleshooting and security. TCP/IP Network Administration is also a command and syntax reference for important packages such as gated, pppd, named, dhcpcd, and sendmail. With coverage that includes Linux, Solaris, BSD, and System V TCP/IP implementations, the third edition contains:

- Overview of TCP/IP
- Delivering the data Network services
- Getting started
- M Basic configuration
- Configuring the interface
- Configuring routing
- Configuring DNS
- Configuring network servers
- Configuring sendmail
- Configuring Apache
- Network security
- Troubleshooting

Appendices include dip, pppd, and chat reference, a gated reference, a dhcpcd reference, and a sendmail reference. This new edition includes ways of configuring Samba to provide file and print sharing on networks that integrate Unix and Windows, and a new chapter is dedicated to the important task of configuring the Apache web server. Coverage of network security now includes details on OpenSSH, stunnel, gpg, iptables, and the access control mechanism in xinetd. Plus, the book offers updated information about DNS, including details on BIND 8 and BIND 9, the role of classless IP addressing and network prefixes, and the changing role of registrars. Without a doubt,

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TCP/IP Network Administration, 3rd Edition is a must-have for all network administrators and anyone who deals with a network that transmits data over the Internet.

You'll see how to configure TCP/IP on all the most popular operating systems, including DOS, Windows 3.x, Windows 95, Windows NT, Macintosh, NetWare, OS/2, UNIX, and Linux. You'll see exactly how to install and set up TCP/IP products as well as how to use them.

TCP/IP Primer Plus offers its readers an in-depth examination of one of the core networking technologies in a widely accepted format. It covers BGP in sufficient depth to equip the reader with knowledge they can translate into improved network management, and shows clearly how the standard OSI model is linked to the TCP/IP suite.

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