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Networking Self-Teaching Guide An Introduction to TCP/IP TCP/IP Open Systems Networking Open System LANs and Their Global Interconnection Packet Guide to Core Network Protocols TCP/IP Network Administration Designing A Wireless Network Communications for Cooperating Systems Network Management TCP/IP First-Step Topology and structure of computer networks The TCP/IP Guide TCP/IP Primer Plus Communications, Industrial Networking and TCP/IP Data Communications and Computer Networks TCP/IP Protocol Suite Guide to OSI and TCP/IP Models Heterogeneous Internetworking SNA & TCP/IP Enterprise Networking Windows Networking Tools Understanding TCP/IP Local Area Networks Communications and Networking Networks Network World Local Area Networks Sams Teach Yourself TCP/IP in 24 Hours Sams Teach Yourself TCP/IP in 24 Hours TCP/IP and OSI Network User's Guide TCP/IP in 24 Hours, Sams Teach Yourself Advanced Computer Networking TCP/IP and Related Protocols Tcpip Networking Interview Questions Ans Teach Yourself TCP/IP in 14 Days Handbook of Networking & Connectivity Linking LANs A Guide to Designing and Implementing Local and Wide Area Networks Sams Teach Yourself Tcp/ip In 24 Hours, 3/e (sams) Local Area Network Management, Design and Security

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A clear and comprehensive guide to TCP/IP protocols. 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 startedM 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, 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. In just 24 lessons of one hour or less, you will uncover the inner workings of TCP/IP. Using a straightforward, step-by-step approach, each lesson builds on the previous ones, enabling you to learn the essentials of TCP/IP from the ground up. Practical discussions provide an inside look at TCP/IP components and protocols. Step-by-step instructions walk you through many common tasks. Q&As at the end of each hour help you test your knowledge. Notes and tips point out shortcuts and solutions and help you steer clear of potential problems. If you're looking for a smart, concise introduction to the protocols that power the Internet, start your clock and look inside. Sams Teach Yourself TCP/IP in 24 Hours is your guide to the secrets of TCP/IP. Learn about... Protocols at each layer of the TCP/IP stack Routers and gateways IP addressing Subnetting TCP/IP networks Name resolution techniques TCP/IP utilities such as ping and traceroute TCP/IP over wireless networks IP version 6 The World Wide Web and how it works TCP/IP mail protocols such as POP3, IMAP4, and SMTP Casting, streaming, and automation Web services Detecting and stopping network attacks Part I: TCP/IP Basics Hour 1 What Is TCP/IP? 7 Hour 2 How TCP/IP Works 21 Part II: The TCP/IP Protocol System Hour 3 The Network Access Layer 35 Hour 4 The Internet Layer 47 Hour 5 Subnetting and CIDR 69 Hour 6 The Transport Layer 83 Hour 7 The Application Layer 107 Part III: Networking with TCP/IP Hour 8 Routing 121 Hour 9 Getting Connected 143 Hour 10 Firewalls 175 Hour 11 Name Resolution 185 Hour 12 Automatic Configuration 215 Hour 13 IPv6--The Next Generation 229 Part IV: TCP/IP Utilities Hour 14 TCP/IP Utilities 243 Hour 15 Monitoring and Remote Access 275 Part V: TCP/IP and the Internet Hour 16 The Internet: A Closer Look 297 Hour 17 HTTP, HTML, and the World Wide Web 305 Hour 18 Email 321 Hour 19 Streaming and Casting 339 Part VI: Advanced Topics Hour 20 Web Services 353 Hour 21 The New Web 363 Hour 22 Network Intrusion 375 Hour 23 TCP/IP Security 391 Hour 24 Implementing a TCP/IP Network--Seven Days in the Life of a Sys Admin 413 Index. The Ultimate Reference & Learning Guide for the Internet Professional! In depth and current overview of common challenges with TCP/IP! Fluency with the internet protocol suite and communications protocols is essential for the networking professional, however, a user-friendly and thorough resource can be difficult to locate. From helping you to assess your current skill level to preparing for an interview, this guide will tell you the details of what you really need to know. Set yourself apart from other candidates and show that you have what it takes to land the job. More than just a rehash of the basics, more than just documentation and sales presentations, each section is based on project knowledge and experience! Key topics include: . Transmission Control Protocol and Internet Protocol layers and functions . OSI model and TCP/IP differences and similarities . The DoD model for the IP suite . The application layer for network communication: encapsulation and transport . Security and data management Learn how to deploy TCP/IP networks with this proven format for getting up to speed quickly with a new technology. Readers will understand the essentials of TCP/IP and how to implement them on a multi-vendor network, from the basics of Open Systems and Protocols to more advanced topics like application integration. In just 24 sessions of one hour or less, you'll discover how to implement, monitor, and manage a TCP/IP network--even the latest cloud-based and IPv6 networks. Using this book's straightforward, step-by-step approach, you'll uncover the essentials of TCP/IP and put that knowledge to work through practical examples. Each lesson builds on what you've already learned, giving you a strong real-world foundation for success. Expert author and network engineer Joe Casad guides you from the basics to advanced techniques—including TCP/IP's architecture, layers, subnetting, CIDR, routing, security, utilities, remote access, web services, streaming, and much more. Practical discussions provide an inside look at TCP/IP components and protocols. Step-by-step instructions walk you through many common tasks. Q&As at the end of each hour help you test your knowledge. Notes and tips point out shortcuts and solutions and help you steer clear of potential problems. If you're looking for a smart, concise introduction to the protocols that power the Internet, start your clock and look inside. Sams Teach Yourself TCP/IP in 24 Hours is your guide to the secrets of TCP/IP. Learn how to... Understand what TCP/IP is, and how it works Discover how IPv6 differs from IPv4, and how to migrate or coexist with IPv6 Work with TCP/IP's Network Access, Internet, Transport, and Application layers Implement flexible addressing with subnetting and CIDR Establish efficient and reliable routing Implement name resolution Secure TCP/IP networks--detect and prevent attacks Automatically configure TCP/IP clients and hosts Provide classic TCP/IP services and powerful new Web services Use TCP/IP in advanced cloud-based environments Support efficient media streaming and webcasting Capitalize on the benefits of the new HTML5 standard Run TCP/IP protocols over wireless networks Troubleshoot TCP/IP networks with ping, traceroute, and other tools Provide for monitoring and remote access Deploy efficient email systems with POP3, IMAP4, and SMTP Walk through all facets of implementing a TCP/IP network Network management technology; network management functional requirements; integrated network management systems; distributed network management; finding fault; knowledge technologies for evolving networks; management information; managing communication networks by monitoring databases; network information modeling for network management; development and integration of a management information base; understanding network management with OOA; system management information modeling; distribution of managed object fragments and managed object replication: the data distribution view of management information; OSI management information base implementation; simple network management protocol(SNMP); network management in the TCP/IP protocol suite; an integrated architecture for LAN/WAN management; MIB II extends SNMP interoperability SNMP security; coming soon to a network near you; OSI systems management; an implementation of an OSI network management system; the OSI network management model; management by exception: OSI event generation, reporting, and logging; optimizing OSI management system performance; network management of TCP/IP networks: present and future; glossary; list of acronyms; annotated bibliography; about the author. IT professionals who want to move into the networking side in a corporate or enterprise setting will find the detailed content they need to get up to speed on the very latest networking technologies; plus, current networking professionals will find this a valuable and up-to-date resource. This hands-on guide is designed so that you can select, design, and implement an actual network using the tutorials and steps in the book. Coverage includes an overview of networking technologies, including the hardware, software, transmission media, and data transfer processes; in-depth coverage of OSI and TCP/IP reference models; operating systems and other systems software used in today's networks; LANs, WANS, and MANs, including the components and standards that operate within each type of area network; and more. Size classification of networks In this part of the course we will present the basics of computer networks. We will introduce the concepts of LAN, MAN, WAN, Internet, Intranet, Extranet. We will present the differences between the physical topology and logical one. Network Administrators use the layered model called ISO/OSI and/or TCP/IP model. This part of the course will give you a reason to use the models. S?owa kluczowe: LAN, MAN,WAN, Internet, Intranet, Extranet, ISO/OSI, TCP/IP, star, bus, ring, layer, physical, data link, network, transport, session, presentation, application Well, the Internet is formed of many, many interconnected computer networks. This Computer Networking book is designed for everyone who is willing to learn about all of the great stuff the Internet has to offer. You'll learn all the basics and advanced stuff you need to know about computer networking from this book. You'll become extremely familiar with terms like UTP, Ethernet, MAC, IP, TCP & UDP, etc.. It doesn't matter if you are in charge of a small or a large network, at home or at an office, you will learn how to set everything up and how to keep it working. It's the guide to computer networking for every beginner. This book is made out of chapters that will teach you, step by step, how to be successful at Computer Networking. Here's what it will teach you, among other things: - What networks are and how they are functioning - What you need to set up a network - What is Ethernet and how a MAC address works - How to configure an IP address on Windows 7 to 10 - Everything about IP addresses and ports (TCP or UDP) - Different network applications - Cisco IOS and CLI - How does the Routing and Switching process work - Why do we need static routes or routing protocols - What's the purpose of a VLAN in a network Get this book NOW, and you will not only discover new things you didn't

know about computer networking, you will also get the chance to practice correctly the setting up and the maintenance of a network. 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. How to use LANs to help your company grow A vital component of today's business, Local Area Networks (LANs) allow organizations to link their computers together for maximum work sharing, collaboration among geographically disparate teams, and other essential business functions. This book helps system administrators and IT professionals set up LANs and Intranets in a way that will contribute to their company's growth and success. Beginning with the theoretical foundation for LAN operation and design, it covers the applicable data communications principles, then goes on to explore both LAN hardware and infrastructure design, network operating systems, LAN management and security. The book also gives a practical introduction to the world's most popular network operating systems--Windows 2000, Novell NetWare, and Linux. Finally, the book takes an in-depth look at business and management issues, with special emphasis given to the impact of Intranets on business goals. Take an in-depth tour of core Internet protocols and learn how they work together to move data packets from one network to another. With this updated edition, you'll dive into the aspects of each protocol, including operation basics and security risks, and learn the function of network hardware such as switches and routers. New chapters examine the transmission control protocol (TCP) and user datagram protocol in detail. Ideal for beginning network engineers, each chapter in this book includes a set of review questions, as well as practical, hands-on lab exercises. You'll explore topics including: Basic network architecture: how protocols and functions fit together The structure and operation of the Ethernet protocol TCP/IP protocol fields, operations, and addressing used for networks The address resolution process in a typical IPv4 network Switches, access points, routers, and components that process packets TCP details, including packet content and client-server packet flow How the Internet Control Message Protocol provides error messages during network operations How network mask (subnetting) helps determine the network The operation, structure, and common uses of the user datagram protocol This is a practical, easy-to-read introduction to available LAN topologies, architectures, and operating environments. Schatt explains in clear language how to install and interconnect dozens of networking packages, including IBM, DEC, AppleTalk, Token-Ring, NetWare, BanyanVINES, and UNIX. Readers will find solutions to incompatibility, addressing, and routing problems specific to each system, plus discussions on security, vendor responsibility, and other wide-area networking issues. Open System LANs and Their Global Interconnection focuses on the OSI layer 1 to 4 standards (the OSI bearer service) and also introduces TCP/IP and some of the proprietary PC Local Area Network (LAN) standards. The publication first provides an introduction to Local Area Networks (LANs) and Wide Area Networks (WANs), Open Systems Interconnection (OSI), and LAN standards. Discussions focus on MAC bridging, token bus, slotted ring, MAC constraints and design considerations, OSI functional standards, OSI model, value of the transport model, benefits and origins of OSI, and significance of the transport. The manuscript then takes a look at Data Link Control Standards and Network Layer Control. Topics cover relaying, addressing, and routing, use of the ISO 8473 Network Protocol in LANs, Connectionless-mode Network Protocol ISO 8473, connection-mode and connectionless-mode, High Level Data Link Control (HDLC), and data link control in WANs and LANs. The text examines structured building cabling, OSI management, functional standards and proprietary competitors, and transport control standards. Concerns include Connection-mode Transport Protocol, Network Connection Management Subprotocol (NCMS), OSI functional standards, management information model, LAN management, Simple Network Management Protocol (SNMP), and supporting LAN Standards. The publication is a vital reference for computer science experts and researchers interested in open system Local Area Networks. Offers readers an authoritative, in-depth exploration of the local area network. This book incorporates the latest technology, protocols, techniques, and hardware and software employed in computer networking. 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. From Charles M. Kozierek, the creator of the highly regarded 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. Kozierek 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. 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. This text begins with the basic components of telephone and computer networks. Next, the Local Area Networks (LANs), Metropolitan Area Networks (MANs), Wide Area Networks (WANs), the OSI Management Model, the network devices that operate at different layers of the OSI model, and the IEEE 802 Standards are discussed. Several protocols and the physical topologies, bus, star, and ring are presented. The Ethernet, Token Ring, and Fiber Distributed Data Interface (FDDI) are described in detail. Concludes with an introduction to SNMP and RMON. Business is on the move - mobile computing must keep up! Innovative technology is making the communication between computers a cordless affair. Mobile computing with laptops, hand helds and mobile phones is increasing the demand for reliable and secure wireless networks. Network engineers and consultants need to create and build cutting-edge wireless networks in both the small business and multi-million dollar corporations. Designing Wireless Networks provides the necessary information on how to design and implement a wireless network. Beginning with detailed descriptions of the various implementations and architectures of wireless technologies and moving to the step-by-step instructions on how to install and deploy a fixed wireless network; this book will teach users with no previous wireless networking experience how to design and build their own wireless network based on the best practices of the Enhanced Services from Lucent Technologies. * Timely coverage of new technologies: Communication without cables is the future of networking * Advocates wireless networking solutions for any user, regardless of location, device or connection. * Written by Experts. The authors are leading WAN authorities at Lucent Technologies. * No previous wireless experience is assumed, however, readers should have a basic understanding of networking and TCP/IP protocols Provides the first authoritative description of IBM's approach to supplying networking services in a heterogeneous, multi-vendor environment. Cypser describes how SNA (IBM's network architecture) can be strategically intergrated with international standards and other existing protocols, such as TCP/IP. This unique and valuable source of information describes the protocol suite according to the International Organization for Standards(ISO) seven-level (OSI) reference model. Written by Dr. John Davidson at Ungermann/Bass, the worlds largest manufacturer of local area networks, this book will appeal to everybody interested or involved in local or wide-area computer networking projects. Windows Networking Tools: The Complete Guide to Management, Troubleshooting, and Security explains how to use built-in Windows networking tools and third-party networking products to diagnose network problems, address performance issues, and enhance the overall security of your system and network. It starts with a review of the major components of the TCP/IP protocol suite, as well as IP and MAC addressing, to provide a clear understanding of the various networking tools and how they are used in a LAN and a TCP/IP networking environment. Although the book focuses on built-in Windows networking tools, it also investigates a number of third-party products that can enhance the performance of your computer. It identifies tools to

help you to understand the traffic flow and operational status of your network, illustrates the use of numerous tools, and shows you several methods to protect your computers from malicious software. It also examines one of the best programs for examining the flow of data on a network—Wireshark—and explains how to use this program to scan for open ports and discover vulnerability issues. In addition to helping you gain insight into existing problems, the text highlights built-in Windows networking tools that can help to determine if you can expect future bandwidth bottlenecks or other problems to occur under different growth scenarios. Placing the proven methods of an industry veteran at your fingertips, the book includes a chapter devoted to software programs that can enhance the security of your network. It explains how to negate the operation of unwanted advertisement trackers as well as how to minimize and alleviate the various types of hacking—from keyboard loggers to network viruses. In the event your computational device is lost or stolen a cryptographic program is described that results in data becoming meaningless to the person or persons attempting to read your stored information. This book provides a clear and easy to follow treatment of communications and networking. It is written specifically for undergraduates who have no previous experience in the field. The author takes a step-by-step approach, with many examples and exercises designed to give the reader experience and increase confidence by using and designing communications systems. Written by a lecturer with many years' experience teaching undergraduate programmes, the text takes the reader through the essentials of networking and provides a comprehensive, reliable and thorough treatment of the subject. The book is also accessible for business professionals. Written by a team of developers, industry experts, consultants, end-users, and visionaries, this is the most complete guide to enterprise networking options. Learn how SNA, APPN and HPR can integrate and interoperate smoothly. Discover emerging enterprise solutions for the Web, Internet, and Java. This book presents a complete guide to SNA interoperability today. Sams Teach Yourself TCP/IP in 24 Hours, Sixth Edition is a practical guide to the simple yet illusive protocol system that powers the Internet. A step-by-step approach reveals how the protocols of the TCP/IP stack really work and explores the rich array of services available on the Internet today. You'll learn about configuring and managing real-world networks, and you'll gain the deep understanding you'll need to troubleshoot new problems when they arise. Sams Teach Yourself TCP/IP in 24 Hours is the only single-volume introduction to TCP/IP that receives regular updates to incorporate new technologies of the ever-changing Internet. This latest edition includes up-to-date material on recent topics such as tracking and privacy, cloud computing, mobile networks, and the Internet of Things. Each chapter also comes with: Practical, hands-on examples, showing you how to apply what you learn Quizzes and exercises that test your knowledge and stretch your skills Notes and tips with shortcuts, solutions, and workarounds If you're looking for a smart, concise introduction to the TCP/IP protocols, start your clock and look inside. Learn how to... Understand TCP/IP's role, how it works, and how it continues to evolve Work with TCP/IP's Network Access, Internet, Transport, and Application layers Design modern networks that will scale and resist attack Address security and privacy issues with encryption, digital signatures, VPNs, Kerberos, web tracking, cookies, anonymity networks, and firewalls Discover how IPv6 differs from IPv4, and how to migrate or coexist with IPv6 Configure dynamic addressing, DHCP, NAT, and Zeroconf Establish efficient and reliable routing, subnetting, and name resolution Use TCP/IP in modern cloud-based environments Integrate IoT devices into your TCP/IP network Improve your efficiency with the latest TCP/IP tools and utilities Support high-performance media streaming and webcasting Troubleshoot problems with connectivity, protocols, name resolution, and performance Walk through TCP/IP network implementation, from start to finish Handbook of Networking & Connectivity focuses on connectivity standards in use, including hardware and software options. The book serves as a guide for solving specific problems that arise in designing and maintaining organizational networks. The selection first tackles open systems interconnection, guide to digital communications, and implementing TCP/IP in an SNA environment. Discussions focus on elimination of the SNA backbone, routing SNA over internets, connectionless versus connection-oriented networks, internet concepts, application program interfaces, basic principles of layering, protocols and services, application layer, and conformance testing. The book then takes a look at integrated services digital network, an overview of the synchronous optical network, and X.25 and worldwide networking. The publication ponders on Metropolitan Area Networks (MAN), an overview of the switched multimegabit data service, and Ethernet/802.3 and Token Ring/802.5. Topics include Ethernet versus token ring, Ethernet/802.3, customer network management, MAN conception and technology, and SMDS specifications and sources and interface protocol. The selection is a vital source of data for systems professionals and researchers interested in networking and connectivity. This comprehensive text teaches students and professionals who have no prior knowledge of TCP/IP everything they need to know about the subject. It uses many figures to make technical concepts easy to grasp, as well as numerous examples, which help tie the material to the real world. This is a TCP/IP title for the network professional who has to plan, implement, and maintain TCP/IP over the network. The book features step-by-step instructions covering IPv6, the latest release. The CD-ROM contains RFC's for IPv6. TCP/IP is the most widely used network protocol. Now, this 14-day tutorial instructs the reader in the fundamentals of TCP/IP through a variety of teaching methods. The 14 day structure provides a logical and easy-to-follow sequence. Handy references with short examples are provided in shaded syntax boxes. Daily lessons, review sections, and clear examples are also included. This title offers a unique approach to learning about network design, by providing both the theories behind networks and a practical, hands-on method for putting those theories to work. With extensive end-of-chapter exercises, hands-on exercises, and case studies, this book prepares individuals to design a network from the ground up, using real-world situations. This book provides the user with a practical perspective on how to install, configure and maintain a TCP/IP network. Now in its second edition, the book is split into three sections, covering the issues an IT manager or communications network designer needs to understand in order to implement a scalable and manageable TCP/IP network. Local Area Networks: An Introduction to the Technology, Second Edition is intended for those who want to become more familiar with local area networks (LANs) without facing the challenge of a 400-page text. The goals of the book are to give prospective LAN users or purchasers familiarity with the concepts involved and to provide a head start for reading more detailed texts. Since LAN product offerings are constantly changing, a deliberate attempt has been made to emphasize the general principles, operating characteristics, and problem areas of LANs, rather than cite specific product examples.

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