

4

CHAPTER FOUR

OSI Model and Network Protocols

Objectives

1.1 Explain the function of common networking protocols

- ▶ TCP
- ▶ FTP
- ▶ UDP
- ▶ TCP/IP suite
- ▶ DHCP
- ▶ TFTP
- ▶ DNS
- ▶ HTTP(S)
- ▶ ARP
- ▶ SIP (VoIP)
- ▶ RTP (VoIP)
- ▶ SSH
- ▶ POP3
- ▶ NTP
- ▶ IMAP4
- ▶ Telnet
- ▶ SMTP
- ▶ SNMP2/3
- ▶ ICMP
- ▶ IGMP
- ▶ TLS

Chapter Four Osi Model And Network Protocols

Shon Harris, Fernando Maymi



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products and services or an experienced professional looking to refresh your knowledge about Cisco this For Dummies guide provides you with the coverage solutions and best practices you need

Microsoft Windows Networking Essentials Darril Gibson, 2011-05-02 The core concepts and technologies of Windows networking Networking can be a complex topic especially for those new to the field of IT This focused full color book takes a unique approach to teaching Windows networking to beginners by stripping down a network to its bare basics thereby making each topic clear and easy to understand Focusing on the new Microsoft Technology Associate MTA program this book pares down to just the essentials showing beginners how to gain a solid foundation for understanding networking concepts upon which more advanced topics and technologies can be built This straightforward guide begins each chapter by laying out a list of topics to be discussed followed by a concise discussion of the core networking skills you need to have to gain a strong handle on the subject matter Chapters conclude with review questions and suggested labs so you can measure your level of understanding of the chapter's content Serves as an ideal resource for gaining a solid understanding of fundamental networking concepts and skills Offers a straightforward and direct approach to networking basics and covers network management tools TCP IP the name resolution process and network protocols and topologies Reviews all the topics you need to know for taking the MTA 98 366 exam Provides an overview of networking components discusses connecting computers to a network and looks at connecting networks with routers If you're new to IT and interested in entering the IT workforce then Microsoft Windows Networking Essentials is essential reading

Principles of Communication and Networking Protocols Simon S. Lam, 1984

Network+ Training Guide Drew Bird, Mike Harwood, 2002 Annotation The authoritative solution to passing the Network exam Has CompTIAs Authorized Quality Curriculum CAQC stamp of approval Features exam tips study strategies review exercises case studies practice exams ExamGear testing software and more This exam certifies that candidates know the layers of the OSI model can describe the features and functions of network components and have the skills needed to install configure and troubleshoot basic networking hardware peripherals and protocols The Network exam developed by CompTIA is only two years old but already is held by 50 000 individuals Readers preparing for this exam will find our Training Guide series to be an indispensable self study tool This book is their one stop shop because of its teaching methodology the accompanying ExamGear testing software and Web site support at www.quepublishing.com certification Drew Bird MCNI MCNE MCT MCSE MCP I has been working in the IT industry for over 12 years instructing for the past five Drew has completed technical training and consultancy assignments for a wide variety of organizations including the Bank of England The London Stock Exchange Iomega and the United Nations Mike Harwood MCT MCSE A has 6 years experience in IT As well as training and authoring technical courseware he currently acts as a system manager for a multi site network and performs consultancy projects for a computer networking company As a team they have written Network Exam Cram Coriolis and Network Exam Prep Coriolis

Network + Certification Study Guide, Third Edition Glen E. Clarke, 2005-12-19 NEW coverage of

wireless networking gigabit Ethernet and other wireless technologies Covers the latest hardware including CAT 6 SANs NAS and RAID Full details on Windows XP Windows Server 2003 Netware and Linux

CompTIA Network+ Certification Practice Exams (Exam N10-005) Robb Tracy, 2012-01-31 Don't Let the Real Test Be Your First Test Prepare for CompTIA Network Exam N10 005 with McGraw Hill a Gold Level CompTIA Authorized Partner offering Authorized CompTIA Approved Quality Content to give you the competitive edge on exam day CompTIA Network Certification Practice Exams Exam N10 005 is filled with more than 700 realistic practice questions to prepare you for this challenging exam To help you understand the material in depth explanations of both the correct and incorrect answers are included for every question This practice guide covers all official objectives for Exam N10 005 and is the perfect companion to CompTIA Network Certification Study Guide Fifth Edition Covers all exam topics including Basic Network Concepts Network Protocols and Standards Networking Components TCP IP Fundamentals TCP IP Utilities Configuring Routers and Switches Subnetting and Routing Configuring Network Services Wireless Networking Remote Access and VPN Connectivity Wide Area Network Technologies Implementing a Network Maintaining and Supporting a Network Network Security Troubleshooting the Network CD ROM includes Complete MasterExam practice testing engine featuring One full practice exam Detailed answers with explanations Score Report performance assessment tool With free online registration Bonus downloadable MasterExam practice test Adobe Digital Editions free eBook download subject to Adobe's system requirements

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CCT/CCNA Routing and Switching All-in-One Exam Guide (Exams 100-490 & 200-301) Glen E. Clarke, Richard Deal, 2021-01-01 This new All in One Exam Guide covers every topic on the current version of Cisco's CCT and CCNA exams Take the 2020 versions of the Cisco Certified Technician CCT and Cisco Certified Network Associate CCNA exams with complete confidence using the detailed information contained in this highly effective self study system Written by a pair of Cisco networking professionals and training experts CCT CCNA Routing and Switching All in One Exam Guide Exams 100 490 200 301 fully explains all subjects covered on both exams and contains practice questions that mirror those on the live test in tone format and content Beyond fully preparing you for the challenging exam the book also serves as a valuable on the job reference Covers all topics on both exams including Network fundamentals OSI model TCP IP protocol suite Subnetting and VLSM Cisco device and IOS basics Cisco device management Switching Static and dynamic routing IP services and IPv6 Wireless Security fundamentals Implementing security on Cisco devices Automation and programmability

Internet Technologies and Information Services Joseph B. Miller, 2009 Why another book about the Internet The answer is simple while there are a number of excellent books on various aspects of networking the Internet HTML Web design Web

programming XML and Web searching there is not a single survey text that explores each of these topics holistically in the context of the knowledge and skill needs of those preparing for careers in any of the many information technology IT intensive fields such as library and information science LIS business and management information systems MIS and decision science DIS to name but a few Part I focuses on the technologies of the Internet Part 2 focuses on the many forms of Internet content and how it is created Part 3 is devoted to the topic of Internet information retrieval Back cover *Computer Communication Networks* Achyut S. Godbole,2004 *CISSP Bundle, Fourth Edition* Shon Harris,Fernando Maymi,Jonathan Ham,2018-12-24 Prepare for the 2018 CISSP exam with this up to date money saving study packageDesigned as a complete self study program this collection offers a wide variety of proven exam focused resources to use in preparation for the current edition of the CISSP exam The set bundles the eighth edition of Shon Harris bestselling CISSP All in One Exam Guide and CISSP Practice Exams Fifth Edition You will gain access to a variety of comprehensive resources to get ready for the challenging exam CISSP Bundle Fourthe Edition fully covers all eight exam domains and offers real world insights from the authors professional experiences More than 2500 accurate practice exam questions are provided along with in depth explanations of both the correct and incorrect answers The included Total Tester test engine provides full length timed simulated exams or customized quizzes that target selected chapters or exam objectives Presents 100% coverage of the 2018 CISSP Exam Includes special discount to Shon Harris Brand CISSP video training from Human Element Security Written by leading experts in IT security certification and training *CISSP All-in-One Exam Guide, Eighth Edition* Shon Harris,Fernando Maymi,2018-10-26 A new edition of Shon Harris bestselling exam prep guide fully updated for the new CISSP 2018 Common Body of KnowledgeThis effective self study guide fully prepares you for the challenging CISSP exam and offers 100% coverage of all exam domains This edition has been thoroughly revised to cover the new CISSP 2018 Common Body of Knowledge hot spot and drag and drop question formats and more CISSP All in One Exam Guide Eighth Edition features hands on exercises as well as Notes Tips and Cautions that provide real world insight and call out potentially harmful situations Each chapter features learning objectives exam tips and practice questions with in depth answer explanations Beyond exam prep the guide also serves as an ideal on the job reference for IT security professionals Fully updated to cover 2018 exam objectives and question formats Digital content includes access to the Total Tester test engine with 1500 practice questions and flashcards Serves as an essential on the job reference **Demystifying Virtual Private Networks** Michael Busby,Stanley Schatt,2000 Demystifying VPN is intended to help those individuals with little or no knowledge of internetworking understand VPNs and how they fit into the overall networking environment that includes TCP IP The material is presented in a logical fashion beginning with the basic business reasons for selecting VPNs as a communications solution to the fundamentals of networking and the complexities of VPNs The material also focuses on the Transmission Control Protocol and Internet Protocol that form the software platform on which VPNs are based and the Point

to Point Tunneling Protocol which is the network protocol supporting VPNs Michael Busby is an electrical engineer and technical writer in Plano Texas He is a consultant the president of Global Network Services an international telecommunications company and the author of Demystifying ATM ADSL and Demystifying TCP IP 3e *Oracle Database 10g: A Beginner's Guide* Ian Abramson,Michael Abbey,Michael J. Corey,2004 Provides beginning DBAs and developers with a solid foundation in the database administration and programming basics needed to embark on an Oracle career The focus is on Oracle Database 10g but you ll get the fundamentals applicable to all Oracle database releases Networking Complete Dave Evans,Greg Jarboe,Hollis Thomases,Mari Smith,Chris Treadaway,2002 Collects chapters written by specialists covering computer networking fundamentals hardware software design maintenance troubleshooting and security **Data Communications, Networks, and Systems** Thomas C. Bartee,1985 *CompTIA Network+ Certification Study Guide, 5th Edition (Exam N10-005)* Glen E. Clarke,2012-01-27 The best fully integrated study system available for Exam N10 005 Prepare for CompTIA Network Exam N10 005 with McGraw Hill a Gold Level CompTIA Authorized Partner offering Authorized CompTIA Approved Quality Content to give you the competitive edge on exam day With hundreds of practice questions and hands on exercises CompTIA Network Certification Study Guide Fifth Edition covers what you need to know and shows you how to prepare for this challenging exam 100% complete coverage of all official objectives for exam N10 005 Exam Readiness checklist you re ready for the exam when all objectives on the list are checked off Inside the Exam sections highlight key exam topics covered Two Minute Drills for quick review at the end of every chapter Simulated exam questions match the format tone topics and difficulty of the real exam Covers all the exam topics including Basic Network Concepts Network Protocols and Standards Networking Components TCP IP Fundamentals TCP IP Utilities Configuring Network Services Wireless Networking Remote Access and VPN Connectivity Wide Area Network Technologies Implementing a Network Maintaining and Supporting a Network Network Security Troubleshooting the Network CD ROM includes Complete MasterExam practice testing engine featuring One full practice exam Detailed answers with explanations Score Report performance assessment tool More than one hour of video training from the author Glossary with key terms Lab Book PDF with solutions with free online registration Bonus downloadable MasterExam practice test Adobe Digital Editions free eBook download subject to Adobe s system requirements

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