

Hands-on Networking Fundamentals

Chapter 6 Solutions

Answers to the Chapter 6 Review Questions

1. Your office is considering the installation of an 802.11g network. However, some people in your office have older portable telephones that operate at 902 MHz. How will these telephones affect the wireless network you are considering?
Answer: d. The network and telephones should not interfere with one another.
2. As you consider an 802.11g wireless network for your office, one person mentions that he has heard wireless networking has no security. What is your response?
Answer: c. 802.11g wireless networking does include security features.
3. You live in an area that is eight miles from town and there is no DSL or cable modem service to you and the 40 homes near yours. Which of the following might be alternatives to bring Internet access to your area? (Choose all that apply.)
Answer: b. 802.16 wireless access
4. What access methods are supported by the 802.11 standards? (Choose all that apply.)
Answer: a. Carrier Sense Multiple Access with Collision Avoidance (CSMA/CA); and d. priority-based access
5. You are designing a new network and want to go wireless for part of the network. Your design specifications call for a data transmission capability of 24 Mbps or faster. Which of the following wireless technologies are options for your design? (Choose all that apply.)
Answer: b. 802.11g; and d. 802.11a
6. When you attach a wireless access point to your existing Ethernet network, you are using the _____ topology.
Answer: a. extended service set (ESS)
7. You are configuring Wired Equivalent Privacy (WEP) for your network. Which of the following are options you can configure for WEP? (Choose all that apply.)
Answer: c. 64- and 128-bit encryption
8. What is the name of the radio frequency bands on which users can set up wireless networking?
Answer: b. Industrial, Scientific, and Medical frequencies
9. When you set up an access point, the broadcast area around it is called _____.
Answer: a. cell
10. You have set up a combined 802.11g and 802.11b network and are expecting 54 Mbps communications. However, when you test the communications they are much lower than this. What is the problem? (Choose all that apply.)
Answer: b. Combining 802.11g and 802.11b can significantly reduce the speed of a wireless network much below 54 Mbps.
11. Your business has just purchased a satellite Internet connection through an ISP. Which of the following equipment can you expect to install? (Choose all that apply.)
Answer: a. a dish; and b. digital modems for sending and receiving
12. Which of the following operates at 5 GHz? (Choose all that apply.)
Answer: c. 802.11a

Networking Fundamentals Chapter Review Answers

Lingsheng Yao



Networking Fundamentals Chapter Review Answers:

CWTS, CWS, and CWT Complete Study Guide Robert J. Bartz, 2017-09-26 The must have guide to the CWTS exam updated for 2017 CWTS Certified Wireless Technology Specialist Study Guide is your number one resource for comprehensive exam preparation Updated to study in 2017 and beyond this book takes a multi modal approach to ensure your complete confidence and ability for the big day full coverage of all CWTS exam objectives reinforces your conceptual knowledge hands on exercises help hone your practical skills and the Sybex online learning environment provides flashcards a glossary and review questions to help you test your understanding along the way An objective map and pre assessment test allow for more efficient preparation by showing you what you already know and what you need to review and the companion website s complete practice exams give you a dry run so you can pinpoint weak areas while there s still time to improve If you re serious about earning your CWTS certification this book is your ideal companion for complete and thorough preparation Learn critical concepts and apply essential skills in areas like hardware and software radio frequency fundamentals surveying and installation support troubleshooting security and more This guide gives you everything you need to approach the exam with confidence Master 100 percent of the CWTS exam objectives Use effective planning tools to get the most out of your study time Practice your skills with hands on exercises and real world scenarios Access online study aids that let you review any time any place The CWTS certification gets your foot in the door of a growing industry and is a stepping stone to the industry standard CWNP certification The exam will test your abilities in all fundamental areas of Wi Fi technology so it s important that your study plan be complete and up to date CWTS Certified Wireless Technology Specialist Study Guide is your ideal solution for comprehensive preparation *CCENT ICND1 100-105 Exam Cram* Anthony J. Sequeira, 2016-12-30 This is the eBook of the printed book and may not include any media website access codes or print supplements that may come packaged with the bound book *CCENT ICND1 100 105 Exam Cram* is the perfect study guide to help you pass the 100 105 ICND1 exam providing coverage and practice questions for every exam topic The book contains an extensive set of preparation tools including topic overviews exam alerts Cram Savers Cram Quizzes chapter ending review questions author notes and tips and an extensive glossary The book also contains the extremely useful Cram Sheet tear out a collection of essential facts in an easy to review format Complementing all these great study tools is the powerful Pearson Test Prep practice test software complete with hundreds of exam realistic practice questions This assessment software offers you a wealth of customization options and reporting features allowing you to test your knowledge in study mode practice exam mode or flash card mode Covers the critical information you ll need to know to score higher on your CCENT exam Compare and contrast networking models including OSI and TCP IP Compare and contrast various networking technologies and architectures Apply troubleshooting methodologies Master subnetting in IPv4 Understand important details of IPv6 Describe and verify key switching topics Configure Layer 2 switches including Port Security Configure and verify Inter VLAN

routing Configure and verify routing Configure and verify key infrastructure services including DNS DHCP DHCP NTP and NAT Configure and verify infrastructure maintenance Configure Cisco device hardening Troubleshoot networks using key IOS tools

CompTIA A+ Complete Study Guide Quentin Docter, Emmett Dulaney, Toby Skandier, 2007-02-03 All in one guide prepares you for CompTIA's new A+ Certification Candidates aiming for CompTIA's revised two exam A+ Certified Track will find everything they need in this value packed book Prepare for the required exam CompTIA A+ Essentials 220 601 as well as your choice of one of three additional exams focusing on specific job roles IT Technician 220 602 Remote Support Technician 220 603 or Depot Technician 220 604 This in depth book prepares you for any or all four exams with full coverage of all exam objectives Inside you'll find Comprehensive coverage of all exam objectives for all four exams in a systematic approach so you can be confident you're getting the instruction you need Hand on exercises to reinforce critical skills Real world scenarios that show you life beyond the classroom and put what you've learned in the context of actual job roles Challenging review questions in each chapter to prepare you for exam day Exam Essentials a key feature at the end of each chapter that identifies critical areas you must become proficient in before taking the exams A handy fold out that maps every official exam objective to the corresponding chapter in the book so you can track your exam prep objective by objective Look inside for complete coverage of all exam objectives for all four CompTIA A+ exams Featured on the CD SYBEX TEST ENGINE Test your knowledge with advanced testing software Includes all chapter review questions and 8 total practice exams ELECTRONIC FLASHCARDS Reinforce your understanding with flashcards that can run on your PC Pocket PC or Palm handheld Also on CD you'll find the entire book in searchable and printable PDF Study anywhere any time and approach the exam with confidence Visit www.sybex.com for all of your CompTIA certification needs Note CD ROM DVD and other supplementary materials are not included as part of eBook file

AWS Certified Advanced Networking Official Study Guide Sidhartha Chauhan, James Devine, Alan Halachmi, Matt Lehwess, Nick Matthews, Steve Morad, Steve Seymour, 2018-02-13 The official study guide for the AWS certification specialty exam The AWS Certified Advanced Networking Official Study Guide Specialty Exam helps to ensure your preparation for the AWS Certified Advanced Networking Specialty Exam Expert review of AWS fundamentals align with the exam objectives and detailed explanations of key exam topics merge with real world scenarios to help you build the robust knowledge base you need to succeed on the exam and in the field as an AWS Certified Networking specialist Coverage includes the design implementation and deployment of cloud based solutions core AWS services implementation and knowledge of architectural best practices AWS service architecture design and maintenance networking automation and more You also get one year of free access to Sybex's online interactive learning environment and study tools which features flashcards a glossary chapter tests practice exams and a test bank to help you track your progress and gauge your readiness as exam day grows near The AWS credential validates your skills surrounding AWS and hybrid IT network architectures at scale The exam assumes existing competency with advanced networking tasks and assesses your

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CCNA Routing and Switching 200-125 Exam Cram Anthony J. Sequeira, 2017-02-15 This is the eBook of the printed book and may not include any media website access codes or print supplements that may come packaged with the bound book CCNA Routing and Switching 200 125 Exam Cram 5 e is the perfect study guide to help you pass the Cisco 200 125 CCNA exam providing coverage and practice questions for every exam topic The book contains an extensive set of preparation tools including topic overviews ExamAlerts CramSavers CramQuizzes chapter ending review questions author notes and tips and an extensive glossary The book also contains the extremely useful CramSheet tear out a collection of essential facts in an easy to review format Complementing all these great study tools is the powerful Pearson Test Prep practice test software complete with hundreds of exam realistic practice questions This assessment software offers you a wealth of customization options and reporting features allowing you to test your knowledge in study mode should be Covers the critical information you ll need to know to score higher on your CCNA exam Compare and contrast networking models including OSI and TCP IP Master subnetting in IPv4 u Understand important details of IPv6 Configure Layer 2 switches including VLANs trunks STP and Port Security Deploy EtherChannel and switch stacking Configure and verify Inter VLAN routing Configure verify and troubleshoot static and dynamic routing using OSPF EIGRP and RIPv2 Describe basic QoS concepts Learn WAN topology and connectivity options and configure PPP MLPPP PPPoE and GRE tunnel connectivity Configure and verify single homed branch connectivity using eBGP IPv4 Configure and verify key infrastructure services including DNS DHCP NTP HSRP and NAT Configure Cisco device hardening and deploy access layer security AAA and ACLs Learn how to manage Cisco infrastructure Troubleshoot networks using key IOS tools Understand network programmability concepts **CompTIA Strata IT Fundamentals All-in-One Exam Guide (Exam FC0-U41)** Scott Jernigan, Mike Meyers, 2011-03-26 All in One is All You Need Get complete coverage of all material included on the CompTIA Strata IT Fundamentals exam inside this comprehensive resource Written by leading CompTIA certification and training experts this authoritative guide covers exam FC0 U41 in full detail You ll find learning objectives at the beginning of each chapter exam tips practice exam questions and in depth explanations Designed to help you pass the exam with ease this definitive volume also serves as an essential on the job reference COVERS ALL EXAM TOPICS INCLUDING How computers work Processing components Common and

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Network Fundamentals, CCNA Exploration Companion Guide Mark Dye, Richard McDonald, Antoon Ruff, 2007-10-29 Network Fundamentals CCNA Exploration Companion Guide is the official supplemental textbook for the Network Fundamentals course in the Cisco Networking Academy CCNA Exploration curriculum version 4 The course the first of four in the new curriculum is based on a top down approach to networking The Companion Guide written and edited by Networking Academy instructors is designed as a portable desk reference to use anytime anywhere The book s features reinforce the material in the course to help you focus on important concepts and organize your study time for exams New and improved features help you study and succeed in this course Chapter objectives Review core concepts by answering the focus questions listed at the beginning of each chapter Key terms Refer to the updated lists of networking vocabulary introduced and highlighted in context in each chapter Glossary Consult the comprehensive glossary with more than 250 terms Check Your Understanding questions and answer key Evaluate your readiness with the updated end of chapter questions that match the style of questions you see on the online course quizzes The answer key explains each answer Challenge questions and activities Strive to ace more challenging review questions and activities designed to prepare you for the complex styles of questions you might see on the CCNA exam The answer key explains each answer How To Look for this icon to study the steps you need to learn to perform certain tasks Packet Tracer Activities Explore networking concepts in activities interspersed throughout some chapters using Packet Tracer v4.1 developed by Cisco The files for these activities are on the accompanying CD ROM Also available for the Network Fundamentals Course Network Fundamentals CCNA Exploration Labs and Study Guide ISBN 10 1 58713 203 6 ISBN 13 978 1 58713 203 2 Companion CD ROM See instructions within the ebook on how to get access to the files from the CD ROM that accompanies this print book The CD ROM provides many useful tools and information to support your education Packet Tracer Activity exercise files v4.1 VLSM Subnetting Chart Structured Cabling Exploration Supplement Taking Notes a txt file of the chapter objectives A Guide to Using a Networker s Journal booklet IT Career Information Tips on Lifelong Learning in Networking This book is part of the Cisco Networking Academy Series from Cisco Press The products in this series support

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CCENT ICND1 100-101 Exam Cram Michael H. Valentine, Keith Barker, 2013-12-13 Prepare for Cisco CCENT ICND1 100 101 exam success with this Cisco Exam Cram from Pearson IT Certification a leader in IT Cisco CCENT ICND1 100 101 Exam Cram Second Edition is the perfect study guide to help you pass the Cisco ICND1 100 101 exam providing coverage and practice questions for every exam topic The book contains an extensive set of preparation tools such as exam objective mapping a self assessment section that helps you evaluate your motivations and exam readiness concise easy to read exam topic overviews Exam Alerts that highlight key concepts bullet lists and summaries for easy review Cram Savers Cram Quizzes and chapter ending practice questions that help you assess your knowledge and test your understanding Notes that indicate areas of concern or specialty training Tips to help you build a better foundation of knowledge and an extensive glossary of terms and acronyms The book also contains the extremely useful Cram Sheet that represents a collection of the most difficult to remember facts and numbers you should memorize before taking the test Covers the critical information you ll need to know to score higher on your Cisco CCENT ICND1 100 101 exam Identify the protocols that operate at specific OSI layers Learn the details of custom subnetting with IPv4 Understand and implement IPv6 Connect configure and manage Cisco routers and switches Set up security for routers and switches Create VLANs and set up switch to switch trunk links Configure verify and troubleshoot OSPFv2 and OSPFv3 Anticipate the actions a router will take Understand and use CDP for neighbor discovery Learn the detailed learning and forwarding process of both routers and switches Filter traffic from one network to another with access control lists ACLs Deploy Network Address Translation NAT and IOS router DHCP services Troubleshoot many types of network problems Mike Valentine has been in the IT field for 16 years focusing on network design and implementation He is a Cisco Certified Systems Instructor 31461 and specializes in Cisco Unified Communications instruction as well as CCNA and CCNP courses His accessible humorous and effective teaching style has demystified Cisco for hundreds of students since he began teaching in 2002 Keith Barker CCIE No 6783 R S Security is a 27 year veteran of the networking industry He currently works at CBT Nuggets His past experience includes EDS Blue Cross Paramount Pictures and KnowledgeNET and he has delivered CCIE level training for several years

CompTIA A+ Complete Study Guide, 2-Volume Set Quentin Docter, Jon Buhagiar, 2025-07-02 Your complete accurate resource for the updated CompTIA A Core 1 and Core 2 exams In the newly revised sixth edition of CompTIA A Complete Study Guide 2 Volume Set Volume 1 Core 1 Exam 220 1201 and Volume 2 Core 2 Exam 220 1202 you ll discover comprehensive coverage of all A certification exam objectives A team of A certified IT professionals with a combined 50 years experience in the industry walk you through the most popular information technology certification on the market today preparing you for success on both the 220 1201 and 220 1202 A exams The set emphasizes on the job skills you ll use every day as a PC technician or in a related role with timely updates covering major advances in mobile cloud network and security technology It walks you through mobile devices networking hardware virtualization and

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Ben Piper, 2020-06-03 The practical and conceptual knowledge you need to attain CCNP Enterprise certification From one of the most trusted study guide publishers comes CCNP Enterprise Certification Study Guide Exam 350 401 This guide helps you develop practical knowledge and best practices for critical aspects of enterprise infrastructure so you can gain your CCNP Enterprise certification If you're hoping to attain a broader range of skills and a solid understanding of Cisco technology this guide will also provide fundamental concepts for learning how to implement and operate Cisco enterprise network core technologies By focusing on real world skills each chapter prepares you with the knowledge you need to excel in your current role and beyond It covers emerging and industry specific topics such as SD WAN network design wireless and automation This practical guide also includes lessons on Automation Network assurance Security Enterprise infrastructure Dual stack architecture Virtualization In addition to helping you gain enterprise knowledge this study guide can lead you toward your Cisco specialist certification When you purchase this guide you get access to the information you need to prepare yourself for advances in technology and new applications as well as online study tools such as Bonus practice exams Pre made flashcards Glossary of key terms Specific focus areas Expand your skillset and take your career to the next level with CCNP Enterprise Certification Study Guide

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

CompTIA Network+ N10-006 Cert Guide Keith Barker, Kevin Wallace, 2015 This approved study guide helps you master topics on the CompTIA Network N10 006 exam including the following Computer network fundamentals The OSI model and TCP IP stack Media types infrastructure components and network devices Ethernet technology IPv4 and IPv6 addresses Routing IP traffic with dynamic routing protocols DNAT SNAT and PAT Multicast routing Wide Area Networks WANs Wireless LANs Network optimization and QoS Windows and UNIX command line tools for network administration and troubleshooting Network security Troubleshooting common Layer 2 Layer 3 and wireless networking issues CompTIA Network N10 006 Cert Guide contains proven study features that enable you to succeed on the exam the first time Best selling authors and expert instructors Keith Barker and Kevin Wallace share preparation hints and test taking tips helping you identify areas of weakness and improve both your conceptual knowledge and hands on skills essential for successful

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CCNA Routing and Switching Practice Tests Jon Buhagiar, 2017-04-03 Cisco has announced big changes to its certification program As of February 24 2020 all current certifications will be retired and Cisco will begin offering new certification programs The good news is if you re working toward any current CCNA certification keep going You have until February 24 2020 to complete your current CCNA If you already have CCENT ICND1 certification and would like to earn CCNA you have until February 23 2020 to complete your CCNA certification in the current program Likewise if you re thinking of completing the current CCENT ICND1 ICND2 or CCNA Routing and Switching certification you can still complete them between now and February 23 2020 Preview exam day with 1500 questions tailored to the exam domains

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